



Ahsay Cloud Backup Suite 8.5

API Guide

Ahsay Systems Corporation Limited

17 February 2022

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Revision History

Date	Descriptions	Type of modification																		
June 19, 2020	Password complexity requirements for system users affects all API if Admin feature enabled. For further details, see Ch. 3.2.2 (UpdateSysUser)	New																		
December 10, 2020	Ch. 4.1.6 (UpdateUserProfile) Ch. 4.1.6 (UpdateUser) Ch. 4.1.8 (AddUser) Ch. 4.2.1 (UpdateBackupset) Ch. 4.2.26 (RunBackup)) Ch. 4.2.13 (AddBackupset) Ch. 3.1.1 (UpdateSystemSettings) Ch. 3.1.3 (GetSystemSettings) Ch. 3.1.6 (GetLicense v1,v2) Ch. 3.3.6 (ListPolicyGroup)	Modifications																		
April 30, 2021	Removed de-supported “Amazon Cloud Drive” destination	Modifications																		
May 13, 2021	<div>The following attributes will no longer be displayed in any API responses:<table><tr><td>"AllowMultiple"</td><td>"Priority"</td></tr><tr><td>"Attributes"</td><td>"ReadLock"</td></tr><tr><td>"AttributeList"</td><td>"SubKeyList"</td></tr><tr><td>"AttributeSize"</td><td>"SubKeys"</td></tr><tr><td>"Content"</td><td>"SubKeySize"</td></tr><tr><td>"InheritParentAttribs"</td><td>"Values"</td></tr><tr><td>"IPriority"</td><td>"ValueList"</td></tr><tr><td>"KeyName"</td><td>"ValueSize"</td></tr><tr><td>"NestedValues"</td><td>"WriteLock"</td></tr></table></div>	"AllowMultiple"	"Priority"	"Attributes"	"ReadLock"	"AttributeList"	"SubKeyList"	"AttributeSize"	"SubKeys"	"Content"	"SubKeySize"	"InheritParentAttribs"	"Values"	"IPriority"	"ValueList"	"KeyName"	"ValueSize"	"NestedValues"	"WriteLock"	Removal
"AllowMultiple"	"Priority"																			
"Attributes"	"ReadLock"																			
"AttributeList"	"SubKeyList"																			
"AttributeSize"	"SubKeys"																			
"Content"	"SubKeySize"																			
"InheritParentAttribs"	"Values"																			
"IPriority"	"ValueList"																			
"KeyName"	"ValueSize"																			
"NestedValues"	"WriteLock"																			
May 14, 2021	Ch. 3.1.2 (UpdateConfig) JSON Object “SmtpServer” key “Port” was incorrectly labeled String, actual Integer type.	Correction																		
	“Auth” add description on how to setup SMTP server without login credentials	Modifications																		
June 8, 2021	Ch. 3.2.2 (UpdateSysUser) Ch. 3.2.5 (ListSystemUsers)	Modifications																		
June 18, 2021	Ch. 3.1.8 (AddPredefinedDestination) Ch. 3.3.10 (AddPolicyGroup) Ch. 3.3.11 (AddPolicyGroupToUserGroup)	New																		
September 23, 2021	Ch. 3.3.9 (UpdatePolicyGroup v1,v2)	Change mandatory																		
October 15, 2021	Ch. 3.3.6 (ListPolicyGroups v1,v2) Ch. 4.2.13 (AddBackupSet)	Desupport Exchange 2010 DAG																		
February 17, 2022	Ch. 3.3.6 (ListPolicyGroups) Ch. 4.2.1 (UpdateBackupSet) Ch. 4.2.20 (GetBackupSet)	ReminderSettings																		

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1 Overview

1.1 Conventions

List of notations used throughout this document.

Convention	Descriptions	Example
Bold	Important Information	WARNING: Text
<i>Italic</i>	Folder Path	<i>/usr/local/cbs/conf</i>
[]	Graphical Interface Elements	[Manage Log]
%%	Filepath in Windows format	%CBS_HOME%
\$	Filepath in Linux/Unix/BSD format	\$CBS_HOME
<i>italic</i>	Command	<i>mkdir /usr/local/cbs</i>

Notation that are used specifically for API section:

Convention	Descriptions
<Text Inside angle brackets>	Placeholder for which you must supply a value.
[Text inside square brackets]	Optional items.
{Text insides braces}	Set of required items; choose one.
Vertical bar ()	Separator for mutually exclusive items; choose one.
Ellipsis (...)	Items that can be repeated.
Bold	All the keys defined in the parameter section or the JSON objects are mandatory.

The API or parameters are available (updated) since this version shown for each API:

Available since version:	
	8.5

1.2 Definitions, Acronyms and Abbreviation

Term/Abbreviation	Definition
AhsayCBS	Ahsay™ Cloud Backup Suite
AhsayOBM	Ahsay™ Online Backup Manager
AhsayACB	Ahsay™ A-Click Backup
CBS_HOME	The install location of AhsayCBS. <u>Windows</u> <i>C:\Program Files\AhsayCBS</i> <u>Linux</u> <i>/usr/local/cbs/</i>
CONF_HOME	The directory to store AhsayCBS configuration files. <u>Windows</u> <i>%CBS_HOME%\conf</i> <u>Linux</u> <i>\$CBS_HOME/conf</i>
USER_HOMES	The directories where AhsayCBS store the AhsayOBM & AhsayACB users accounts. The default location is: <i>%CBS_HOME%\users</i>
POLICY_HOME	The directory where AhsayCBS store its system users and group policy information. <u>Windows</u> <i>%CBS_HOME%\system\policy</i> <u>Linux</u> <i>\$CBS_HOME\system\policy</i>
SYSTEM_HOME	The directory where AhsayCBS store its system information. <u>Windows</u> <i>%CBS_HOME%\system\</i> <u>Linux</u> <i>\$CBS_HOME\system\</i>
WEBAPPS_HOME	Location of the webapps directory inside the installation directory of AhsayCBS. <u>Windows</u> <i>%CBS_HOME%\webapps.</i> <u>Linux</u> <i>\$CBS_HOME\webapps</i>
RECEIVER_HOME	The location where the replicated data is stored for a particular replication receiver.
JAVA_HOME	The location where JAVA is installed

2 Introduction

AhsayCBS contains a set of APIs (Application Programming Interface), which allows you to integrate external applications (e.g. billing system or automated registration system) with AhsayCBS.

This chapter describes what APIs are available and how you can invoke different APIs.

2.1 Overview

AhsayCBS comes with a set of REST APIs which is JSON (JavaScript Object Notation) based JavaScript syntax. It can be read and used as a data format by any programming language (Java, Python, PHP, C, cURL, etc...).

API request can be invoked by using **POST** method only. For backward compatible, AhsayCBS version 8 supports *some* APIs in version 6 (API in XML format). However, for the support of new features in version 8, we recommend programmers to change all existing legacy coding with the use of the new JSON syntax API.

Here is a sample of the JSON request input:

```
{
  "SysUser": "APIuser",
  "SysPwd": "my_password",
  "Hostname": "mybackup.com",
  ...
  :
  :
  :
  :
}
```

For further reference on the JSON syntax or documentation, please refer to the following webpages:

https://www.w3schools.com/js/js_json_intro.asp
<http://developers.squarespace.com/what-is-json/>

Note: More examples are available in the following API sections.

2.2 Limitations and Recommendations

New features introduced by AhsayCBS version 8 will not be supported by APIs (in XML format) of AhsayOBS version 6 or earlier releases. Please convert your APIs to JSON format in order to use them for AhsayCBS version 8.

To allow a third-party program to utilize the API, you are suggested to create an API system user which has permission for API calls to your AhsayCBS. For all APIs outlined in this guide with parameters **SysUser** and **SysPwd**, they are the username and password of the **Admin** system user or **API** system user.

Note:

- ① Coding for your application must support UTF-8.
- ① When testing your API, ensure that you have all parameters and / or settings setup on your AhsayCBS.
- ① Please arrange your test case in a logical sequence, such as Creating a backup set before attempting to Modify / Delete a backup set with API.

2.3 IP Restrictions

By default, AhsayCBS accepts and handles API requests from all IP addresses. To avoid being exploited by hackers from an unauthorized network, setup IP filters with the following instructions:

1. Open the web.xml file in the following paths:

%CBS_HOME%\webapps\cbs\WEB-INF\web.xml

%CBS_HOME%\webapps\rps\WEB-INF\web.xml

%CBS_HOME%\webapps\rdr\WEB-INF\web.xml

%CBS_HOME%\webapps\obs\WEB-INF\web.xml

Note: %CBS_HOME%\webapps\obs\WEB-INF\web.xml ("/obs/api/json/" API)
* cannot be fully restricted because it is used by the OBM and ACB Client agent.
* can have restrictions if you include the Range for all your user's IP subnets.

2. Locate the *ApiAccess* filter under the "filter" section.
3. Change the [Range2] parameter value from "0.0.0.0-255.255.255.255" (shown in red and bold below) to another range of IP addresses from where APIs can be invoked.

web.xml
... <filter> <filter-name>ApiAccess</filter-name> <filter-class> Com.ahsay.obs.www.IPFilter</filter-class>

```

<init-param>
  <param-name>Range1</param-name>
  <param-value>localhost</param-value>
</init-param>
<init-param>
  <param-name>Range2</param-name>
  <param-value>0.0.0.0-255.255.255.255</param-value>
</init-param>
</filter>
...

```

For example, change the [Range2] value from "0.0.0.0-255.255.255.255" to "192.168.1.1-192.168.1.255" to allow the 192.168.1.x network to invoke APIs.

web.xml (Updated)
<pre> ... <filter> <filter-name>ApiAccess</filter-name> <filter-class> Com.ahsay.obs.www.IPFilter</filter-class> <init-param> <param-name>Range1</param-name> <param-value>localhost</param-value> </init-param> <init-param> <param-name>Range2</param-name> <param-value>192.168.1.1-192.168.1.255</param-value> </init-param> </filter> ... </pre>

Please note that you can configure more than two IP ranges by adding additional init parameters (i.e. "Range3", "Range4" and so on) to the filter XML tag. For example:

```

...
<filter>
  <filter-name>ApiAccess</filter-name>
  <filter-class> Com.ahsay.obs.www.IPFilter</filter-class>
  <init-param>
    <param-name>Range1</param-name>
    <param-value>localhost</param-value>
  </init-param>
  <init-param>
    <param-name>Range2</param-name>
    <param-value>192.168.1.1-192.168.1.255</param-value>
  </init-param>
  <init-param>
    <param-name>Range3</param-name>
    <param-value>192.168.2.1-192.168.2.255</param-value>
  </init-param>
</filter>

```

4. Restart the AhsayCBS service.

2.4 Troubleshooting

Here are some common mistakes when people write their own JSON scripts:

Syntax errors

Getlicense.do API Input -- Missing comma and/or double quote

```
{
  "SysUser": "api_user"
  "SysPwd": "abc123$%"
}
```

Output

```
{
  "Status": "Error",
  "Message": "java.lang.NullPointerException",
  "ExptType": "java.lang.NullPointerException"
}
```

Output 2

```
{
  "Status": "Error",
  "Message": "[Error] Parameter SysUser is null!",
  "ExptType": "java.io.IOException"
}
```

Missing the above syntax would cause critical errors.

Correct input

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%"
}
```

Output

```
{
  "Status": "OK"
}
```

Syntax errors

UpdateConfig.do API Input -- Array missing square brackets []

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%",
  "SendBccReports": true,
  "AdminContacts": {"Name": "New1", "Email": "New1@example.com"}, {"Name": "New1", "Email": "New1@example.com"}
}
```

Output

```
{
  "Status": "Error",
  "Message": "java.lang.NullPointerException",
  "ExptType": "java.lang.NullPointerException"
}
```

Correct input

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%",
  "SendBccReports": true,
  "AdminContacts": [{"Name": "New1", "Email": "New1@example.com"}, {"Name": "New1", "Email": "New1@example.com"}]
}
```

Output

```
{
  "Status": "OK"
}
```

The input data type for AdminContacts is an *array*. Array must be set in square brackets [].

Parameter names typo errors

Getlicense.do API Input -- Incorrect parameter name

```
{
  "SySUser": "api_user",
  "SySPwd": "abc123$%"
}
```

Output

```
{
  "Status": "Error",
  "Message": "[Error] Parameter SysUser is null!",
  "ExptType": "java.io.IOException"
}
```

Correct input

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%"
}
```

Output

```
{
  "Status": "OK",
}
```

Parameter names are case-sensitive. Ensure that all parameters names are in the correct case, as outlined in this document.

Input of extra Key(s) are ignored by CBS, is not validated, and will not display error.

UpdateUser.do API Input -- Erroneous Key "foobar" is ignored

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%",
  "LoginName": "backup_user",
  "foobar": "foobar_is_extra_and_irrelevant"
}
```

Output

```
{
  "Status": "OK",
}
```

▶ Escape characters errors

AddSelectSrc.do API Input -- Character Backslash (\) not escaped (\\)

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%",
  "LoginName": "opendirect",
  "BackupSetID": "1497925931498",
  "NewSelectedSrc": {"Src": "C:\\SelectSrcTestOBM"}
}
```

Output

```
{
  "Status": "Error",
  "Message": "java.lang.NullPointerException",
  "ExptType": "java.lang.NullPointerException"
}
```

Correct input

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%",
  "LoginName": "opendirect",
  "BackupSetID": "1497925931498",
  "NewSelectedSrc": {"Src": "C:\\\\SelectSrcTestOBM"}
}
```

Output

```
{
  "Status": "OK"
}
```

Make sure your values are specific for JAVA characters (e.g. \\ for escape).

▶ Incorrect API URL path

Incorrect https://BACKUP_SERVER/obs/api/json/UpdateConfig.do

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%"
}
```

Output

No body returned for response

Correct https://BACKUP_SERVER/cbs/api/json/UpdateConfig.do

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%"
}
```

Output

```
{
  "Status": "OK"
}
```

Make sure you point to correct API URL path. For “UpdateConfig.do” it is under “/cbs/api”.

Additional information


If the error message returned by the API call does not provide sufficient information, please login to the AhsayCBS console for further details:


🔗 [Dashboard] > [To Dos] > [API Errors]


To Dos Overview CPU Memory Storage Live Threads



Missed Backups
0


Failed Backups
0


System Errors
3


Replication Errors
0


API Errors
26


Email Errors
0

View 25 Rows/Page Page 1

Timestamp	Login Name	Owner	Message
19/06/2017 17:40:31	--	--	[Api][ModifyUserStatus]com.ahsay.obs.core.dbs.Y: [UserCacheManager.NoSuchUserExpt] User 'user1' not found. at com.ahsay.obs.core.dbs.G.a(Unknown Source) at com.ahsay.obs.core.dbs.I.a(Unknown Source) at com.ahsay.obs.api.json.JSONUserApi.doAction(Unknown Source) at com.ahsay.obs.api.json.JSONApi.execute(Unknown Source) at org.apache.struts.chain.commands.servlet.ExecuteAction.execute(ExecuteAction.java:58) at org.apache.struts.chain.commands.AbstractExecuteAction.execute(AbstractExecuteAction.java:67) at org.apache.struts.chain.commands.ActionCommandBase.execute(ActionCommandBase.java:51) at org.apache.commons.chain.impl.ChainBase.execute(ChainBase.java:191) at org.apache.commons.chain.generic.LookupCommand.execute(LookupCommand.java:305) at org.apache.commons.chain.impl.ChainBase.execute(ChainBase.java:191) at org.apache.struts.chain.ComposableRequestProcessor.process(ComposableRequestProcessor.java:283) at org.apache.struts.action.ActionServlet.process(ActionServlet.java:1913) at org.apache.struts.action.ActionServlet.doPost(ActionServlet.java:462) at javax.servlet.http.HttpServlet.service(HttpServlet.java:646) at javax.servlet.http.HttpServlet.service(HttpServlet.java:727) at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:303) at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:208) at org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:52) at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:241) at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:208) at com.ahsay.obs.www.EncodingFilter.doFilter(Unknown Source) at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:241) at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:208) at com.ahsay.obs.www.IPFilter.doFilter(Unknown Source) at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:241) at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:208) at org.apache.catalina.core.StandardMapperValve.invoke(StandardMapperValve.java:220) at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:122) at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:504) at org.apache.catalina.valves.AccessLogValve.invoke(AccessLogValve.java:950) at

Note: You can contact Ahsay [support team](#) for further assistance.

3 System API

3.1 System Config

3.1.1 UpdateServerConfig (v1), UpdateSystemSettings (v2) - Backup Server

This API can be used to update the Backup Server related configuration such as the user home and free trial user registration settings.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [Basic] > [User Home] or [Free Trial Options]

v1 UpdateServerConfig.do

URL:			
https://BACKUP_SERVER/obs/api/json/UpdateServerConfig.do			
Available since version:			
8.5			
Parameters:			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS system user with admin role.	
SysPwd	String	Password of an AhsayCBS system user with admin role.	
UserHomes	Array	Note: When new user home is added, you need to include your existing user home in the array.	
EnableFreeTrial	Boolean	Enable / Disable the Free Trial Registration option.	
BackupQuotaSize	Long	Backup quota of trial user, unit in byte.	
ExpTrialStatus	String	"reset" or "suspend"	
ExpTrialQuota	Long	The quota of expired trial user, unit in byte.	
SuspendUserDays	Integer	The number of days that a user will be suspended. The value can be any one of the following: "7", "8", ..., "29", "30", "45", "60", "75", "90"	
TrialMsExchange	Boolean	Enable / Disable the trial of Microsoft Exchange Server add-on module.	
TrialMsSql	Boolean	Enable / Disable the trial of Microsoft SQL Server add-on module.	
TrialMySql	Boolean	Enable / Disable the trial of MySQL Database Server add-on module.	
TrialMariaDB	Boolean	Enable / Disable the trial of MariaDB add-on module.	
TrialOracle	Boolean	Enable / Disable the trial of Oracle Database Server add-on module.	
TrialDomino	Boolean	Enable / Disable the trial of Lotus Domino add-on module.	
TrialNotes	Boolean	Enable / Disable the trial of Lotus Notes add-on module.	
TrialWinServer2008BareMetal	Boolean	Enable / Disable the trial of Windows System Backup add-on module.	
TrialMsWinSysState	Boolean	Enable / Disable the trial of Windows System State Backup add-on module.	
TrialVMware	Boolean	Enable / Disable the trial of VMware add-on module.	
TrialVMwareQuota	String	VMware VM module quota. Enter integer value in string format.	
TrialVMwareQuotaType	String	Default value is GUESTVM if not provided. The value can be any one of the following: GUESTVM SOCKET	
TrialMsVm	Boolean	Enable / Disable the trial of Hyper-V add-on module.	
TrialMsVmQuota	String	Hyper-V module quota. Enter integer value in string format. E.g.: "1" or "2" etc.	
TrialMsVmQuotaType	String	Default value is GUESTVM if not provided The value can be any one of the following: GUESTVM	

			SOCKET
	TrialMsExchangeMailbox	Boolean	Enable / Disable the trial of Microsoft Exchange Mailbox add-on module.
	TrialEMBQuota	String	Microsoft Exchange Mailbox module quota. Enter integer value in string format
	TrialNasClient	Boolean	Enable / Disable the trial of NAS add-on module.
	TrialQnap	Boolean	Enable / Disable the trial of Qnap NAS add-on module.
	TrialShadowProtectBareMetal	Boolean	Enable / Disable the trial of Shadow Protect System Backup add-on module.
	TrialShadowCopy	Boolean	Enable / Disable the trial of Volume Shadow Copy add-on module.
	TrialCdp	Boolean	Enable / Disable the trial of Continuous Data Protection add-on module.
	TrialDeltaBlock	Boolean	Enable / Disable the trial of In-File Delta add-on module.
	TrialMobile	Boolean	Enable / Disable the trial Mobile add-on module.
	TrialMobileQuota	String	Mobile add-on module quota. Enter integer value in string format
	TrialOffice365Mail	Boolean	Enable / Disable the trial of Office365 online backup add-on module.
	TrialOpenDirect	Boolean	Enable / Disable the trial Open Direct/ Granular Restore add-on module.
	TrialOpenDirectQuota	String	Open Direct / Granular Restore quota. Enter integer value in string format.
	EnableRemoveUser	Boolean	Enable / Disable the remove trial user.
	RemoveUserDays	String	Enter integer value in string format.
	SinceInactive	Boolean	
JSON Objects:			
	UserHome		
	Key	Type	Descriptions
	Path	String	Path of user home, e.g. "F:\\new_home"
	Quota	String	<p>Maximum QPS ratio of the user home</p> <p>The value can be any one of the following:</p> <p>Unlimited</p> <p>300</p> <p>250</p> <p>200</p> <p>150</p> <p>100</p> <p>90</p> <p>80</p> <p>70</p> <p>60</p> <p>50</p> <p>40</p> <p>30</p> <p>20</p> <p>10</p> <p>0</p> <p>"0" refers to the "Not Used"</p>
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"

Example:	
	Input: Update userhomes
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "UserHomes": [{ "Path": "F:\\home" }, { "Quota": "Unlimited" }, { "Path": "F:\\new_home" }, { "Quota": "Unlimited" }] }</pre>
	Output
	<pre>{"Status": "OK"}</pre>
Example:	
	Input: Update module settings
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "EnableFreeTrial": true, "TrialMsExchange": true }</pre>
	Output
	<pre>{"Status": "OK"}</pre>

v2 UpdateSystemSetting.do

v2 UpdateServerConfig.do API (v2 UpdateSystemSetting.do) was introduced for handling of features related to Quota Management.

A **TrialQuotaList** JSON object (list of quota for multiple backup destinations for free trial users) was introduced to replace the single **BackupQuotaSize** parameter.

While AhsayCBS version 8 or above is backward compatible with API calls in previous format, it is highly recommended to use the version 2 of the API instead (e.g. v2 UpdateSystemSetting.do).

Note: The name of the **UpdateServerConfig.do** API has changed to **UpdateSystemSetting.do**.

URL:			
	https://BACKUP_SERVER/obs/api/json/2/UpdateSystemSetting.do		
Available since version:			
	8.5		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	AhsayCBS's system users with admin role.
	SysPwd	String	AhsayCBS's system users password with admin role.
	UserHomes	Array	Note: When new user home is added, you need to include your existing user home in the array.
	EnableFreeTrial	Boolean	Enable / Disable the Free Trial Registration option.
	TrialQuotaList	Array	List of quota of backup destination for trial user, unit in byte.
	ExpTrialStatus	String	"reset" or "suspend"
	ExpTrialQuota	String	The quota of expired trial user, in number of bytes.
	SuspendUserDays	Integer	The number of days that a user will be suspended. The value can be any one of the following: "7", "8", ... , "29", "30", "45", "60", "75", "90"
	TrialMsExchange	Boolean	Enable / Disable the trial of Microsoft Exchange Server add-on module.
	TrialMsSql	Boolean	Enable / Disable the trial of Microsoft SQL Server add-on module.
	TrialMySql	Boolean	Enable / Disable the trial of MySQL Database Server add-on module.
	TrialMariaDB	Boolean	Enable / Disable the trial of MariaDB add-on module
	TrialOracle	Boolean	Enable / Disable the trial of Oracle Database Server add-on module.
	TrialDomino	Boolean	Enable / Disable the trial of Lotus Domino add-on module.
	TrialNotes	Boolean	Enable / Disable the trial of Lotus Notes add-on module.
	TrialWinServer2008BareMetal	Boolean	Enable / Disable the trial of Windows System Backup add-on module.
	TrialMsWinSysState	Boolean	Enable / Disable the trial of Windows System State Backup add-on module.
	TrialVMware	Boolean	Enable / Disable the trial of VMware add-on module.
	TrialVMwareQuota	String	VMware VM module quota. Enter integer value in string format.
	TrialVMwareQuotaType	String	Default value is GUESTVM if not provided The value can be any one of the following: GUESTVM SOCKET
	TrialMsVm	Boolean	Enable / Disable the trial of Hyper-V add-on module.
	TrialMsVmQuota	String	Hyper-V module quota. Enter integer value in string format.
	TrialMsVmQuotaType	String	Default value is GUESTVM if not provided The value can be any one of the following: GUESTVM SOCKET
	TrialMsExchangeMailbox	Boolean	Enable / Disable the trial of Microsoft Exchange Mailbox add-on module.

	TrialEMBQuota	String	Microsoft Exchange Mailbox module quota. Enter integer value in string format.
	TrialNasClient	Boolean	Enable / Disable the trial of NAS add-on module.
	TrialQnap	Boolean	Enable / Disable the trial of Qnap NAS add-on module.
	TrialShadowProtectBareMetal	Boolean	Enable / Disable the trial of Shadow Protect System Backup add-on module.
	TrialShadowCopy	Boolean	Enable / Disable the trial of Volume Shadow Copy add-on module.
	TrialCdp	Boolean	Enable / Disable the trial of Continuous Data Protection add-on module.
	TrialDeltaBlock	Boolean	Enable / Disable the trial of In-File Delta add-on module.
	TrialMobile	Boolean	Enable / Disable the trial Mobile add-on module.
	TrialMobileQuota	String	Mobile add-on module quota. Enter integer value in string format
	TrialOffice365Mail	Boolean	Enable / Disable the trial of Office365 online backup add-on module.
	TrialOpenDirect	Boolean	Enable / Disable the trial Open Direct/ Granular Restore add-on module.
	TrialOpenDirectQuota	String	Open Direct / Granular Restore quota. Enter integer value in string format.
	EnableRemoveUser	Boolean	Enable / Disable the remove trial user.
	RemoveUserDays	String	Enter integer value in string format.
	Sincelnactive	Boolean	
JSON Objects:			
	UserHome		
	Key	Type	Descriptions
	Path	String	Path of user home, e.g. "F:\\new_home"
	Quota	String	Maximum QPS ratio of the user home The value can be any one of the following: Unlimited 300 250 200 150 100 90 80 70 60 50 40 30 20 10 0 "0" refers to the "Not Used"
	TrialQuotaList		
	Key	Type	Descriptions
	Enabled	Boolean	
	Quota	Long	Quota of the backup destination, unit in byte.
	DestinationKey	String	ID of the backup destination.
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"

Example:	
	Input: Update UserHomes
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "TrialQuotaList": [{ "Enable": true "Quota": 549750000 "DestinationKey": "OBS" }, { "Enable": true "Quota": 549750000 "DestinationKey": "-1525973679332" }, { "Enable": false "Quota": 549750000 "DestinationKey": "-1522419628106" }] }</pre>
	Output
	<pre>{"Status": "OK"}</pre>
Example:	
	Input: Disable Trial MariaDB
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "TrialMariaDB": false }</pre>
	Output
	<pre>{"Status": "OK"}</pre>

3.1.2 UpdateConfig - Backup Server

The UpdateConfig.do API can be used to update the the following settings of AhsayCBS:

Proxy server
Admin contacts
System Homes
SNMP settings
Windows Event Logs
Connectors

The related settings can be found on the AhsayCBS web console at:

- 🔗 [System Settings] > [Basic] > [General] or [Email]
- 🔗 [System Settings] > [Advanced] > [Proxy] or [Logging]

URL:			
	https://BACKUP_SERVER/cbs/api/json/UpdateConfig.do		
Available since version:			
	8.3.4.0		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	UseEventLog	Boolean	Whether event log is enabled
	EventLogName	String	Name of event log
	Hostname	String	Hostname of the CBS server
	SystemHome	String	The directory containing all system files
	WebServers	Array of WebServer	Connectors
	SmtServers	Array of SmtServer	SmtServers settings
	AdminContacts	Array of Contact	Admin contacts in array
	UseProxy	Boolean	Enable proxy server
	ProxyUsername	String	User name of proxy server
	ProxyPassword	String	Password of the user of proxy server
	ProxyType	String	The value can be any one of the following: HTTP SOCK
	ProxyHost	String	Hostname of the proxy server
	ProxyPort	String	Port used by the proxy server
	ProxyExcludeHosts	Array of ProxyExcludeHost	If you need to exclude some hostnames and IP addresses for proxy connection, you can add those excluded hostnames and IP addresses.
	EnableSnmp	Boolean	
	SnmpStartIP	String	
	SnmpEndIP	String	
	SnmpTrapInfo	Boolean	SNMP Trap Level Information
	SnmpTrapWarn	Boolean	SNMP Trap Level Warning
	SnmpTrapErr	Boolean	SNMP Trap Level Error
	SnmpPort	Integer	SNMP Trap port number
	SnmpTrapRecv1	SnmpTrapRecv	Receiver 1
	SnmpTrapRecv2	SnmpTrapRecv	Receiver 2
	SnmpTrapRecv3	SnmpTrapRecv	Receiver 3
	PreventSessionHijackingEnabled	Boolean	“true” or “false” to Enable/Disable prevent session hijacking

Return Values:

Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

JSON Objects:**WebServer**

Key	Type	Descriptions
Id	Integer	Usually start from 0, ascending order
Ip	String	This is designed for servers with multiple IP addresses. This attribute specifies which IP address will be used for listening on the specified port. If only 1 IP address is used on your system, the default value 0.0.0.0 can be used.
Port	String	The TCP port number on which this connector will create a server socket and await incoming connections. Please make sure this port is not occupied by other application in your system.
Protocol	String	The value can be any one of the following: http https
MaxConn	String	Maximum number of connections allowed to server
MaxKeepAliveReq	String	Maximum number of requests to serve on a TCP connection
ConnTimeout	String	Connection timeout (milliseconds)
SslCertificateId	String	Name of an existing SSL Cert present in CBS. Empty string if not applicable.
RxBufSize	String	Size in bytes of the receive buffer socket. Default = 25188
TxBufSize	String	Size in bytes of the send buffer socket. Default = 43800

SmtpServer

Key	Type	Descriptions
HostName	String	
Port	Integer	
SecureProtocol	Boolean	
Auth	Boolean	set value = False, if SMTP server does not require login credentials
AuthUser	String	
AuthPwd	String	
ReportSender	Contact	
Owner	String	Name of owner, empty if owner is Admin

Contact

Key	Type	Descriptions
Name	String	
Owner	String	Name of owner, empty if owner is Admin
Email	String	Example: <i>name@domain.com</i>
Address	String	
ReceiveBccEmail	Boolean	

ProxyExcludeHost

Key	Type	Descriptions
Host	String	

SnmpTrapRecv


Key	Type	Descriptions
Enable	Boolean	
Host	String	
TrapPort	String	

Example:
Input
<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "SendBccReports": true, "AdminContacts": [{"Name": "New1", "Email": "New1@example.com"}] }</pre>
Output
<pre>{ "Status": "OK" }</pre>
Example:
Input 2 :
<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "SendBccReports": true, "AdminContacts": [{"Name": "New1", "Email": "New1@example.com"}] }</pre>
Output
<pre>{ "Status": "OK" }</pre>

3.1.3 GetSystemSetting (v1,v2) - Backup Server

This API can be used to retrieve backup server related configuration such as the user home and free trial options.

The related settings can be found on the AhsayCBS web console:

 [Backup / Restore] > [Basic] > [User Home] or [Free Trial Options]

v1 GetSystemSetting.do

URL:			
	https://BACKUP_SERVER/obs/api/json/GetSystemSetting.do		
Available since version:			
	8.5		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	ConfigData	
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	UserHomes		
	Key	Type	Descriptions
	QuotaSum	Array	
	Quota	String	
	PasswordProtected	Boolean	Whether it is located at password protected network drive
	Password	String	
	Username	String	
	CurrentRatio	String	Current QPS Ratio
	Path	String	Path to the user home
	Size	String	Size of the user home
	ConfigData		
	Key	Type	Descriptions
	EnableFreeTrial	Boolean	Enable / Disable the Free Trial Registration option.
	BackupQuotaSize	String	Backup quota of trial user, in number of bytes
	ExpTrialStatus	String	"reset" or "suspend"
	SuspendUserDays	Integer	The number of days that a user will be suspended. The value can be any one of the following: "7", "8", ... , "29", "30", "45", "60", "75", "90"
	SincedInactive	Boolean	
	TrialMsExchange	Boolean	The trial option of Microsoft Exchange Server add-on module.
	TrialMsSql	Boolean	The trial option of Microsoft SQL Server add-on module.
	TrialMySql	Boolean	The trial option of MySQL Database Server add-on module.
	TrialOracle	Boolean	The trial option of Oracle Database Server add-on module.
	TrialDomino	Boolean	The trial option of Lotus Domino add-on module.
	TrialNotes	Boolean	The trial option of Lotus Notes add-on module.
	TrialWinServer2008BareMetal	Boolean	The trial option of Windows System Backup add-on module.
	TrialMsWinSysState	Boolean	The trial option of Windows System State Backup add-on module.
	TrialVMware	Boolean	The trial option of VMware add-on module.

TrialVMwareQuota	String	VMware module quota.
TrialVMwareQuotaType	Array	Default value is GUESTVM if not provided The value can be any one of the following: GUESTVM SOCKET
TrialMsVm	Boolean	The trial option of Hyper-V add-on module.
TrialMsVmQuota	String	Hyper-V module quota.
TrialMsVmQuotaType	Array	Default value is GUESTVM if not provided The value can be any one of the following: GUESTVM SOCKET
TrialMsExchangeMailbox	Boolean	The trial option of Microsoft Exchange Mailbox add-on module.
TrialEMBQuota	String	Microsoft Exchange Mailbox module quota.
TrialNasClient	Boolean	The trial option of NAS add-on module.
TrialQnap	Boolean	The trial option of Qnap NAS add-on module.
TrialShadowProtectBareMetal	Boolean	The trial option of Shadow Protect System Backup add-on module.
TrialShadowCopy	Boolean	The trial option of Volume Shadow Copy add-on module.
TrialCdp	Boolean	The trial option of Continuous Data Protection add-on module.
TrialDeltaBlock	Boolean	The trial option of In-File Delta add-on module.
TrialMariaDB	Boolean	The trial option of MariaDB add-on module.
TrialMobile	Boolean	The trial option of Mobile add-on module.
TrialMobileQuota	String	The quota of mobile add-on module.
TrialOpenDirect	Boolean	The trial option of Open direct/Granular restore add-on module.
TrialOpenDirectQuota	String	The quota of Open direct/Granular restore add-on module.
EnableRemoveUser	Boolean	The option of trial user removal.
RemoveUserDays	String	The number of days to remove user after registration. The value can be any one of the following: 30 60 90 120 150 180
UserHomes	Array	

Example:

Input

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%"
}
```

Output

```
{
  "Status": "OK",
  "Data": {
    "TrialShadowProtectBareMetal": true,
    "TrialMsWinSysState": true,
    "TrialMsVmQuotaTypes": [],
    "TrialNasClient": true,
    "TrialQnap": true,
    "TrialOracle": true,
    "TrialVMware": true,
    "TrialVMwareQuota": "2",
    "BackupQuotaSize": "52428800",
    "TrialMobile": false,
    "TrialMsVm": true,
    "UserHomes": [
      {
        "QuotaSum": "",
        "Quota": "Unlimited",
        "PasswordProtected": false,
        "Password": "",
        "Username": "",
        "CurrentRatio": "0",

```

<pre> "Path": "F:\\new_home1", "Size": "" }], "EnableRemoveUser": true, "TrialMsExchange": true, "TrialMsVmQuotaType": "GUESTVM", "TrialDeltaBlock": true, "RemoveUserDays": "60", "TrialMySql": true, "TrialDomino": true, "TrialMsSql": true, "TrialMsVmQuota": "2", "TrialCdp": true, "SuspendUserDays": 30, "TrialNotes": true, "TrialWinServer2008BareMetal": true, "TrialShadowCopy": true, "ExpTrialStatus": "suspend", "TrialVMwareQuotaType": "GUESTVM" "SinceInactive": false, "TrialMsExchangeMailbox": true, "TrialEMBQuota": "5", "EnableFreeTrial": true, "TrialMobileQuota": "0", "TrialVMwareQuotaType": "GUESTVM", "TrialMariaDB": false } </pre>

v2 GetSystemSetting.do

For features related to Quota Management, administrator needs to utilize v2 GetSystemSetting.do.

While AhsayCBS version 8 or above is backward compatible with API calls in previous format, it is highly recommended to use the version 2 of the API instead.

URL:		
https://BACKUP_SERVER/obs/api/json/2/GetSystemSetting.do		
Available since version:		
8.5		
Parameters:		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS system user with admin role
SysPwd	String	Password of an AhsayCBS system user with admin role
Return Values:		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	ConfigData	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:		
UserHomes		
Key	Type	Descriptions
QuotaSum	Array	
Quota	String	
PasswordProtected	Boolean	Whether it is located at password protected network drive
Password	String	
Username	String	
CurrentRatio	String	Current QPS Ratio
Path	String	Path to the user home
Size	String	Size of the user home
ConfigData		
Key	Type	Descriptions
EnableFreeTrial	Boolean	Enable / Disable the Free Trial Registration option.
ExpTrialStatus	String	"reset" or "suspend"
SuspendUserDays	Integer	The number of days that a user will be suspended. The value can be any one of the following: "7", "8", ..., "29", "30", "45", "60", "75", "90"
SincelInactive	Boolean	
TrialMsExchange	Boolean	The trial option of Microsoft Exchange Server add-on module.
TrialMsSql	Boolean	The trial option of Microsoft SQL Server add-on module.
TrialMySql	Boolean	The trial option of MySQL Database Server add-on module.
TrialOracle	Boolean	The trial option of Oracle Database Server add-on module.
TrialDomino	Boolean	The trial option of Lotus Domino add-on module.
TrialNotes	Boolean	The trial option of Lotus Notes add-on module.
TrialWinServer2008BareMetal	Boolean	The trial option of Windows System Backup add-on module.
TrialMsWinSysState	Boolean	The trial option of Windows System State Backup add-on module.
TrialVMware	Boolean	The trial option of VMware add-on module.
TrialVMwareQuota	String	VMware module quota.

	TrialVMwareQuotaType	Array	Default value is GUESTVM if not provided The value can be any one of the following: GUESTVM SOCKET
	TrialMsVm	Boolean	The trial option of Hyper-V add-on module.
	TrialMsVmQuota	String	Hyper-V module quota.
	TrialMsVmQuotaType	Array	Default value is GUESTVM if not provided The value can be any one of the following: GUESTVM SOCKET
	TrialMsExchangeMailbox	Boolean	The trial option of Microsoft Exchange Mailbox add-on module.
	TrialEMBQuota	String	Microsoft Exchange Mailbox module quota.
	TrialNasClient	Boolean	The trial option of NAS add-on module.
	TrialQnap	Boolean	The trial option of Qnap NAS add-on module.
	TrialShadowProtectBareMetal	Boolean	The trial option of Shadow Protect System Backup add-on module.
	TrialShadowCopy	Boolean	The trial option of Volume Shadow Copy add-on module.
	TrialCdp	Boolean	The trial option of Continuous Data Protection add-on module.
	TrialDeltaBlock	Boolean	The trial option of In-File Delta add-on module.
	TrialMariaDB	Boolean	The trial option of MariaDB add-on module
	TrialMobile	Boolean	The trial option of Mobile add-on module.
	TrialMobileQuota	String	The Quota of mobile add-on module.
	TrialOpenDirect	Boolean	The trila option of Open direct/Granular restore add-on module.
	TrialOpenDirectQuota	String	The Quota of Open direct/Granular resotre add-on module
	EnableRemoveUser	Boolean	The option of trial user removal.
	RemoveUserDays	String	The number of days to remove user after registration. The value can be any one of the following: 30 60 90 120 150 180
	UserHomes	Array	
TrialQuotaList			
	Key	Type	Descriptions
	Name	Boolean	Name of the backup destination
	Quota	String	Unit in bytes
	DestinationKey	String	ID of the predefined destination, or OBS for quota on AhsayCBS
	Quota	Integer	Unit in bytes
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%" }		
	Output		
	{ "Status": "OK", "Data": { "TrialShadowProtectBareMetal": true, "TrialMsWinSysState": true, "TrialMsVmQuotaTypes": [], "TrialNasClient": true, "TrialQnap": true, "TrialOracle": true, "TrialVMware": true, "TrialVMwareQuota": "2", "TrialMobile": false, "TrialMsVm": true, "UserHomes": [

```

    {
      "QuotaSum":"","
      "Quota":"Unlimited",
      "PasswordProtected":false,
      "Password":"","
      "Username":"","
      "CurrentRatio":"0",
      "Path":"F:\\new_home1",
      "Size":""
    }
  ],
  "EnableRemoveUser":true,
  "TrialMsExchange":true,
  "TrialMsVmQuotaType":"GUESTVM",
  "TrialDeltaBlock":true,
  "RemoveUserDays":"60",
  "TrialMySQL":true,
  "TrialDomino":true,
  "TrialQuotaList":[
    {
      "Name":"AhsayCBS",
      "Quota":52428800,
      "DestinationKey":"OBS"
    }
  ],
  "TrialMySQL":true,
  "TrialMsVmQuota":"2",
  "TrialCdp":true,
  "SuspendUserDays":30,
  "TrialNotes":true,
  "TrialWinServer2008BareMetal":true,
  "TrialShadowCopy":true,
  "ExpTrialStatus":"suspend",
  "TrialVMwareQuotaType":"GUESTVM"
  "Sincelnactive":false,
  "TrialMsExchangeMailbox":true,
  "TrialEMBQuota":"5",
  "EnableFreeTrial":true,
  "TrialMobileQuota":"0",
  "TrialVMwareQuotaType":"GUESTVM",
  "TrialMariaDB":false
}
}

```

3.1.4 UpdateReplicationConfig

This API can be used to update the following replication settings:

Replication destination
Replication Proxy server
Replication traffic limit
Replication backup set

These settings can be found on the AhsayCBS web console at:

 [Replication] > [Sending Data] > [Replication]

URL:			
	https://BACKUP_SERVER/obs/api/json/UpdateReplicationConfig.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	EnableReplication	Boolean	Enable / Disable the option to replicate back up data to another server or predefined cloud storage.
	RepDestId	String	Destination ID of the replication destination
	ReplicationUseProxy	Boolean	Enable / Disable the use of proxy option in replication profile.
	ReplicationUseTrafficLimit	Boolean	Enable / Disable the use of replication traffic limit.
	TrafficLimits	Array of TrafficLimit	Configure the traffic limit settings to control traffic at a specific time
	ReplicateIndividualBset	Boolean	Enable / Disable the option to replicate individual backup set.
	ReplicateNewPaidBSet	Boolean	Enable / Disable the option to replicate new backup sets of paid users.
	ReplicateNewTrialBSet	Boolean	Enable / Disable the option to replicate new backup sets of trial users.
	RepBSet	Array of RepBSet	List of Individual backup sets marked for individual replication. Note: The array must relist to contain all backup sets for replication.
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	TrafficLimit		
	Key	Type	Descriptions
	StartDayOfWeek	Integer	The start day of traffic limit. "1" stands for Sunday, "2" stands for "Monday" and so on.
	StartHour	Integer	The start hour of traffic limit. "0", "1"... "23" can be set.
	StartMin	Integer	The start minute of traffic limit. "0", "1"... "59" can be set.
	EndDayOfWeek	Integer	The end day of traffic limit. "1" stands for Sunday, "2" stands for "Monday" and so on.
	EndHour	Integer	The end hour of traffic limit. "0", "1"... "23" can be set.
	EndMin	Integer	The end minute of traffic limit. "0", "1"... "59" can be set.
	MaxTransferPerSec	String	Maximum number of KBytes transferred per second

RepBSet		
Key	Type	Descriptions
Value	String	<p>The username and backup set ID of the replicated backup set, joined with "++" as separator. For example, UserABC++123456789</p> <p>Note: API will update the whole list, so any existing backupsets in the list will be removed if your "RepBSet" array does not include them.</p>

Example – Traffic Limit:

Input
<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "EnableReplication": true, "ReplicationUseTrafficLimit": true, "TrafficLimits": [{ "StartDayOfWeek": "4", "StartHour": "3", "StartMin": "30", "EndDayOfWeek": "5", "EndHour": "4", "EndMin": "30", "MaxTransferPerSec": "300" }] }</pre>
Output
<pre>{"Status": "OK"}</pre>

Example – Create or Update RepBSet List (not necessary to include subadmin#):

Input
<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "EnableReplication": true, "ReplicateIndividualBset": true, "RepBSet": [{"Value": "user12345++1578027193000"}, {"Value": "user67890++1578059639000"}] }</pre>
Output
<pre>{"Status": "OK"}</pre>


Example – Enable Replication New Trial Backupsets:

Input
<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "EnableReplication": true, "ReplicateNewTrialBset": true }</pre>
Output
<pre>{"Status": "OK"}</pre>

3.1.5 UpdateLicense

This API can be used to update the licensee name and license key on the AhsayCBS server (for the backup server).

This setting can be found on the AhsayCBS web console at:


 [System Settings] > [License] > [Backup]

URL:			
	https://BACKUP_SERVER/obs/api/json/UpdateLicense.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	Licensee	String	Licensee name
	Key	String	Product Key
	UseProxy	Boolean	Enable / Disable the use of proxy defined in the AhsayCBS to connect the internet.
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "Licensee": "ABC_Backup", "Key": "XyZ98-AbcDE-fGhIJ-98bcd-YZ" }</pre>		
	Output 1 - When license status is normal		
	<pre>{ "Status": "OK", "Key": "XyZ98-AbcDE-fGhIJ-98bcd-YZ", "Deactivated": false, "Licensee": "ABC_Backup" }</pre>		
	Output 2 - User action required (e.g. Click the Update button on the web console)		
	<pre>{ "Status": "OK", "Key": "XyZ98-AbcDE-fGhIJ-98bcd-YZ", "Deactivated": false, "Info": "Internal Error 1012. Please press the [Update] button in license page to correct this problem. If the problem persists, please contact our technical support team to resolve this problem.", "Licensee": "ABC_Backup" }</pre>		
	Output 3 - When incorrect license key was provided		
	<pre>{ "Status": "Error", "Message": "License key incorrect. Please try again." }</pre>		
	Output 4 - When AhsayCBS service was stopped		
	<pre>{ "Status": "OK", "Key": "XyZ98-AbcDE-fGhIJ-98bcd-YZ", "Deactivated": false, "Info": "[OEM License.checkLicTime] License expired on 1970-01-01. Backup server is stopped.", "Licensee": "ABC_Backup" }</pre>		

3.1.6 GetLicense (v1,v2)

This API can be used to collect the license and usage information of your AhsayCBS server.

These settings can be found on the AhsayCBS web console at:

 [System Settings] > [License] > [Backup]

V1 GetLicense.do

URL:		
https://BACKUP_SERVER/obs/api/json/GetLicense.do		
Available since version:		
8.5		
Parameters:		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS system user with admin role
SysPwd	String	Password of an AhsayCBS system user with admin role
Return Values:		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	LicenseData	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:		
LicenseData		
Key	Type	Descriptions
Key	String	Product key
Licensee	String	Licensee name
ProductName	String	Name of the product, e.g. "Offsite Backup Software, OEM Edition"
Version	String	Version of the AhsayCBS.
UseProxy	Boolean	Enable / Disable the use of proxy defined in the AhsayCBS to connect the internet.
LicTypeName	String	Name of license type
MaxObmUsers	String	Maximum number of OBM user CALs.
UsedObmQuota	String	Used OBM user CALs.
RemainObmQuota	String	Remaining OBM user CALs.
MaxAcbUsers	String	Maximum number of ACB user CALs.
UsedAcbQuota	String	Used ACB user CALs.
RemainAcbQuota	String	Remaining ACB user CALs.
ExpiryDate	String	Expire date of the license key.
SupExpDate	String	Expire date of the software support.
MaxQuota	String	Maximum backup quota of a user
Ip	String	The IP address of the AhsayCBS registered.
Port	String	The connection port of the AhsayCBS registered.
Mac	String	The MAC address of the network card that the AhsayCBS registered.
MaxUsers	String	Maximum number of users allowed.
AcbClientEnabled	Boolean	Enable / Disable the use of the ACB client module.
DagUseObm	String	Used OBM CALs due to DAG usage.
AcbUseObm	String	Used OBM CALs due to no ACB CALs.
EnableReplication	Boolean	Enable / Disable the use of the replication module.
EnableMSExchangeMailbox	Boolean	Enable / Disable the use of the Exchange Mailbox module.
ExchangeMailboxQuota	String	Exchange Mailbox quota.
UsedExchangeMailboxQuota	String	Used Exchange Mailbox quota.
RemainExchangeMailboxQuota	String	Remaining Exchange Mailbox quota.
EnableMsVm	Boolean	Enable / Disable the use of Hyper-V module.
MsVmQuota	String	Hyper-V quota.
UsedMsVmQuota	String	Used Hyper-V quota.

RemainMsVmQuota	String	Remaining Hyper-V quota.
MsVmSocketQuota	String	The Hyper-V socket quota.
UsedMsVmSocketQuota	String	Used Hyper-V socket quota.
RemainMsVmSocketQuota	String	Remaining Hyper-V socket quota.
EnableVMware	Boolean	Enable / Disable the use of VMware quota.
VMwareQuota	String	VMware quota.
UsedVMwareQuota	String	Used VMware quota.
RemainVMwareQuota	String	Remaining VMware quota.
VMwareSocketQuota	String	The VMware socket quota.
UsedVMwareSocketQuota	String	Used VMware socket quota.
RemainVMwareSocketQuota	String	Remaining VMware socket quota.
EnableMobile	Boolean	Enable / Disable the use of AhsayMOB.
MobileQuota	String	AhsayMOB quota.
UsedMobileQuota	String	Used AhsayMOB quota.
RemainMobileQuota	String	Remaining AhsayMOB quota
EnableOffice365Mail	Boolean	Enable / Disable the use of Office 365 mail quota.
Office365MailQuota	String	Office 365 mail quota.
UsedOffice365MailQuota	String	Used Office 365 mail quota.
RemainOffice365MailQuota	String	Remaining Office 365 mail quota.
OpenDirectQuota	String	Granular restore/ open direct quota
UsedOpenDirectQuota	String	Used Granular restore quota.
RemainOpenDirectQuota	String	Remaining Granular restore quota.
AcbOffice365MailQuota	String	Office 365 quota for AhsayACB.
RemainAcbOffice365MailQuota	String	Used Office 365 mail quota for AhsayACB.
UsedAcbOffice365MailQuota	String	Remaining Office 365 mail quota for AhsayACB.
EnableNasClient	Boolean	Enable / Disable the use of NAS client module.
NasClientQuota	String	NAS client quota.
UsedNasClientQuota	String	Used NAS client quota.
RemainNasClientQuota	String	Remaining NAS client quota.
QnapQuota	String	Qnap NAS client quota.
RemainQnapQuota	String	Used Qnap NAS client quota.
UsedQnapQuota	String	Remaining Qnap NAS client quota.
Deactivated	Boolean	Disabled / Enabled license key.
EnableNasServer	Boolean	Enable / Disable the NAS server module.
EnableUbs	Boolean	Enable / Disable the AhsayUBS module.
EnableHa	Boolean	Enable / Disable the HA module.
MobileQuotaV2	String	AhsayMobile Backup quota.
UsedMobileV2Quota	String	Used AhsayMobile Backup quota.
RemainMobileV2Quota	String	Remaining AhsayMobile Backup quota

Example:

Input	Output
<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%" }</pre>	<pre>{ "Status": "OK", "Data": { "MobileQuota": "0", "ExpiryDate": "UNLIMITED", "RemainMobileV2Quota": "0", "UsedMsVmSocketQuota": "0", "ProductName": "Online Backup Software, OEM Evaluation Edition", "MaxUsers": "10", "Port": "8081", "UsedOffice365MailQuota": "0", "UsedVMwareQuota": "0", "RemainQnapQuota": "0", "RemainMsVmSocketQuota": "0", "RemainVMwareQuota": "0", "LicenseFile": "", "RemainObmQuota": "10", "Version": "8.5.0.63", "EnableMobile": false, "EnableCbs": false, } }</pre>

```

"MsVmQuota": "0",
"VMwareSocketQuota": "0",
"NasClientQuota": "0",
"Licensee": "EvaluationOnly",
"RemainMobileQuota": "0",
"EnableMSExchangeMailbox": true,
"RemainOffice365MailQuota": "0",
"Office365MailQuota": "0",
"EnableVMware": false,
"UsedObmQuota": "0",
"UsedAcbRepQuota": 0,
"AcbOffice365MailQuota": "0",
"RemainAcbOffice365MailQuota": "0",
"MsVmSocketQuota": "0",
"RemainAcbRepQuota": 0,
"MaxObmUsers": "10",
"RemainOpenDirectQuota": "0",
"EnableUbs": false,
"UsedVMwareSocketQuota": "0",
"EnableNasServer": false,
"Mac": "08-00-27-72-37-A8",
"RemainAcbQuota": "0",
"RemainNasClientQuota": "0",
"AcbRepQuota": 0,
"UsedMobileQuota": "0",
"RemainMsVmQuota": "0",
"EnableNasClient": false,
"UsedMobileV2Quota": "0",
"RemainExchangeMailboxQuota": "0",
"UsedNasClientQuota": "0",
"VMwareQuota": "0",
"Key": "62pMG-YPD6l-3ggaG-b5MCT-XX",
"EnableHa": false,
"ObmRepQuota": 0,
"Description": "",
"QnapQuota": "0",
"UsedQnapQuota": "0",
"Ip": "127.0.0.1",
"MaxAcbUsers": "0",
"DagUseObm": 0,
"MobileQuotaV2": "0",
"AcbUseObm": 0,
"EnableReplication": true,
"UsedExchangeMailboxQuota": "0",
"RemainObmRepQuota": 0,
"UsedAcbQuota": "0",
"EnableOffice365Mail": false,
"OpenDirectQuota": "0",
"LicType": 12,
"UseProxy": false,
"UsedMsVmQuota": "0",
"SupExpDate": "",
"EnableMsVm": false,
"LicTypeName": "OEM Evaluation License",
"AcbUseObmRep": 0,
"AcbClientEnabled": false,
"BrandedProductName": "",
"EnableAcbOffice365Mail": false,
"RemainVMwareSocketQuota": "0",
"UsedAcbOffice365MailQuota": "0",
"ExchangeMailboxQuota": "0",
"DateFormat": "MM/dd/yyyy",
"MaxQuota": "UNLIMITED",
"UsedOpenDirectQuota": "0",
"UsedObmRepQuota": 0
},
"Info": "Deprecated. As of version 8.3.0.0, replaced by v2 API /obs/api/json/2/GetLicense."
}

```

v2 GetLicense.do

Since AhsayCBS version 8.3, the following add-on modules are combined into one add-on module, to make these modules that were previously separated, interchangeable:

- Hyper-V and VMware (Per Guest VM) add-on modules are combined
- Hyper-V and VMware (Per Socket) add-on modules are combined
- NAS - Synology and NAS - QNAP add-on modules are combined
- AhsayOBM and AhsayACB Office 365 add-on modules are combined

AhsayCBS			
Backup Redirector			
License Details			
Client Software	Quota	Used	Available
AhsayOBM	5100	24	5076
AhsayACB	2000	1	1999
Client Add-on Modules			
Client Add-on Modules	Quota	Used	Available
Microsoft Exchange Mailbox (Per Mailbox)	2000	140	1860
Hyper-V / VMware (Per Guest VM)	4000	140	3860
Hyper-V / VMware (Per Socket)	4000	0	4000
NAS - Synology / NAS - QNAP	2010	17	1993
Mobile	2000	10	1990
Office 365	4000	110	3890
OpenDirect / Granular Restore	2000	60	1940

To facilitate such changes, a new version of the GetLicense.do API (v2 GetLicense.do) was introduced with the following parameters:

VMQuota	String	Hyper-V or VMware Guest VM Quota
UsedVMQuota	String	Used Hyper-V or VMware Guest VM Quota
RemainVMQuota	String	Available Hyper-V or VMware Guest VM Quota
HypervisorSocketQuota	String	Hyper-V or VMware Socket Quota
UsedHypervisorSocketQuota	String	Used Hyper-V or VMware Socket Quota
RemainHypervisorSocketQuota	String	Available Hyper-V or VMware Socket Quota
NasQuota	String	Synology or QNAP NAS client quota
UsedNasQuota	String	Used Synology or QNAP NAS client quota
RemainNasQuota	String	Available Synology or QNAP NAS client quota
Office365Quota	String	AhsayOBM Office 365 or AhsayACB Office 365 Quota
UsedOffice365Quota	String	Used AhsayOBM Office 365 or AhsayACB Office 365 Quota
RemainOffice365Quota	String	Available AhsayOBM Office 365 or AhsayACB Office 365 Quota

While AhsayCBS version 8.3 or above is backward compatible with API calls in previous format (pre-8.3 API format), it is highly recommended for administrator to use the new version of the API instead (e.g. v2 GetLicense.do).

URL:			
	https://BACKUP_SERVER/obs/api/json/2/GetLicense.do		
Available since version:			
	8.5		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role

Return Values:

Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	LicenseData	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

JSON Objects:

LicenseData		
Key	Type	Descriptions
Key	String	Product key
Licensee	String	Licensee name
ProductName	String	Name of the product, e.g. "Offsite Backup Software, OEM Edition"
Version	String	Version of the AhsayCBS.
UseProxy	Boolean	Enable / Disable the use of proxy defined in the AhsayCBS to connect the internet.
LicTypeName	String	Name of license type
MaxObmUsers	String	Maximum number of OBM user CALs.
UsedObmQuota	String	Used OBM user CALs.
RemainObmQuota	String	Remaining OBM user CALs.
MaxAcbUsers	String	Maximum number of ACB user CALs.
UsedAcbQuota	String	Used ACB user CALs.
RemainAcbQuota	String	Remaining ACB user CALs.
ExpiryDate	String	Expire date of the license key.
SupExpDate	String	Expire date of the software support.
MaxQuota	String	Maximum backup quota of a user
Ip	String	The IP address of the AhsayCBS registered.
Port	String	The connection port of the AhsayCBS registered.
Mac	String	The MAC address of the network card that the AhsayCBS registered.
MaxUsers	String	Maximum number of users allowed.
AcbClientEnabled	Boolean	Enable / Disable the use of the ACB client module.
DagUseObm	String	Used OBM CALs due to DAG usage.
AcbUseObm	String	Used OBM CALs due to no ACB CALs.
EnableReplication	Boolean	Enable / Disable the use of the replication module.
EnableMSEExchangeMailbox	Boolean	Enable / Disable the use of the Exchange Mailbox module.
ExchangeMailboxQuota	String	Exchange Mailbox quota.
UsedExchangeMailboxQuota	String	Used Exchange Mailbox quota.
RemainExchangeMailboxQuota	String	Remaining Exchange Mailbox quota.
VMQuota	String	Hyper-V / VMware (Per Guest VM) quota.
UsedVMQuota	String	Used Hyper-V / VMware (Per Guest VM) quota.
RemainVMQuota	String	Remaining Hyper-V / VMware (Per Guest VM) quota.
HypervisorSocketQuota	String	Hyper-V / VMware (Per Socket) quota.
UsedHypervisorSocketQuota	String	Used Hyper-V / VMware (Per Socket) quota.
RemainHypervisorSocketQuota	String	Remaining Hyper-V / VMware (Per Socket) socket quota.
EnableMobile	Boolean	Enable / Disable the use of AhsayMOB.
MobileQuota	String	AhsayMOB quota.
UsedMobileQuota	String	Used AhsayMOB quota.
RemainMobileQuota	String	Remaining AhsayMOB quota
Office365Quota	String	AhsayACB / AhsayOBM Office 365 mail quota.
UsedOffice365Quota	String	Used AhsayACB / AhsayOBM Office 365 mail quota.
RemainOffice365Quota	String	Remaining AhsayACB / AhsayOBM Office 365 quota.
OpenDirectQuota	String	Granular restore/ open direct quota
UsedOpenDirectQuota	String	Used Granular restore quota.
RemainOpenDirectQuota	String	Remaining Granular restore quota.
NasQuota	String	Synology / QNAP - NAS client quota.
UsedNasQuota	String	Used Synology / QNAP - NAS client quota.
RemainNasQuota	String	Remaining Synology / QNAP - NAS client quota.
Deactivated	Boolean	Disabled / Enabled license key.
EnableNasServer	Boolean	Enable / Disable the NAS server module.
EnableUbs	Boolean	Enable / Disable the AhsayUBS module.
EnableHa	Boolean	Enable / Disable the HA module.
MobileQuotaV2	String	AhsayMobile Backup quota.
UsedMobileV2Quota	String	Used AhsayMobile Backup quota.
RemainMobileV2Quota	String	Remaining AhsayMobile Backup quota

Example:	
Input	
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%" }</pre>
Output	
	<pre>{ "Status": "OK", "Data": { "MobileQuota": "0", "HypervisorSocketQuota": "0", "ExpiryDate": "UNLIMITED", "RemainMobileV2Quota": "0", "ProductName": "Online Backup Software, OEM Evaluation Edition", "MaxUsers": "10", "Port": "8081", "RemainVMQuota": "0", "LicenseFile": "", "RemainObmQuota": "10", "Version": "8.5.0.63", "NasQuota": "0", "EnableCbs": false, "UsedNasQuota": "0", "Licensee": "EvaluationOnly", "RemainMobileQuota": "0", "RemainOffice365Quota": "0", "UsedObmQuota": "0", "UsedAcbRepQuota": 0, "RemainAcbRepQuota": 0, "MaxObmUsers": "10", "RemainOpenDirectQuota": "0", "EnableUbs": false, "Mac": "08-00-27-72-37-A8", "RemainAcbQuota": "0", "AcbRepQuota": 0, "UsedMobileQuota": "0", "RemainNasQuota": "0", "UsedMobileV2Quota": "0", "RemainExchangeMailboxQuota": "0", "RemainHypervisorSocketQuota": "0", "Key": "62pMG-YPD6l-3ggaG-b5MCT-XX", "EnableHa": false, "ObmRepQuota": 0, "Description": "", "Ip": "127.0.0.1", "MaxAcbUsers": "0", "UsedHypervisorSocketQuota": "0", "DagUseObm": 0, "UsedVMQuota": "0", "MobileQuotaV2": "0", "AcbUseObm": 0, "UsedExchangeMailboxQuota": "0", "RemainObmRepQuota": 0, "UsedAcbQuota": "0", "OpenDirectQuota": "0", "LicType": 12, "UseProxy": false, "SupExpDate": "", "VMQuota": "0", "LicTypeName": "OEM Evaluation License", "Office365Quota": "0", "AcbUseObmRep": 0, "BrandedProductName": "", "UsedOffice365Quota": "0", "ExchangeMailboxQuota": "0", "DateFormat": "MM/dd/yyyy", "MaxQuota": "UNLIMITED", } }</pre>




	<pre>"UsedOpenDirectQuota": "0", "UsedObmRepQuota": 0 }</pre>
--	---

3.1.7 GetReplicationMode

This API can be used to retrieve the current replication status on the backup server.

This setting can be found on the AhsayCBS web console at:

 [Monitoring] > [Replication Logs]

URL:			
	https://BACKUP_SERVER/obs/api/json/GetReplicationMode.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	ReplicationData	
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	ReplicationData		
	Key	Type	Descriptions
	Enable	Boolean	Enable / Disable of the replication.
	Replicators	Array of Replicator	
	Replicator		
	Key	Type	Descriptions
	LoginName	String	Client user name
	BackupSetID	String	The 13 digit backup set ID.
	Mode	String	The value can be any one of the following: RESYNC REPLAY PENDING SLEEPING
	File	String	The file that is currently replicating.

Example:**Input**

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%"
}
```

Output

```
{
  "Status": "OK",
  "Data": {
    "Enable": true,
    "Replicators": [
      {
        "LoginName": "userA",
        "File": "",
        "BackupSetID": "1463141188151",
        "Mode": "RESYNC"
      }
    ]
  }
}
```

3.1.8 AddPredefinedDestination

This API can be used to add (create) a predefined destination on the backup server.

This setting can be found on the AhsayCBS web console at:

🔗 [System Settings] > [Basic] > [Predefined Destinations]

URL:			
	https://BACKUP_SERVER/cbs/api/json/AddPredefinedDestination.do		
Available since version:			
	8.5.2.52		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role.
	SysPwd	String	Password of an AhsayCBS system user with admin role.
	Type	String	The type of the predefined destination, please use one of the available type within the set provided in the table “Destination Type”.
	DestinationName	String	The name of the predefined destination, if not provided, the name will be auto-generated by the server.
	DestinationSettings	JSON Object	The settings for the predefined destination, the underlying parameters are specific to each destination type. Please refer to the tables labeled with “DestinationSettings (DESTINATION_TYPE)” for the correct format of each destination type.
	Owner	String	The owner administrator name of this newly added predefined destination, defaults to ADMIN.
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	DestinationID	String	The ID for the newly added predefined destination, available only for successful addition.
	ExptType	String	The type of the exception (Java class name), available only in error response body.

JSON Objects:			
Additional Fields (Merge into Return Values on Error)			
	Key	Type	Descriptions
	InstructionID	String	The instruction id of this error, please refer to the table "Instruction ID" for the value set.
	AvailableOptions	JSON Object	The available options for certain missing parameters, this field will be set when InstructionID equals MISSING_PARAMETER .
	OAuthUrl	String	The authorization url for retrieving the authorization token, this field will be set when InstructionID equals OAUTH_OPEN_URL .
	Message	String	The detailed message of this error.

Destination Type:

Type	Description
FTP	A FTP based destination
SFTP	A SFTP based destination
Local	A local destination (local to the client)
OBS	A destination ("User Home") provided by the CBS server
Pooled	A destination pool
RPS	Used for replication
Aliyun	Alibaba Aliyun
AWSCompatible	AWS Compatible
Azure	Microsoft Azure
Backblaze	Backblaze
CTYun	China Telecom CTYun
Dropbox	Dropbox
GCS	Google Cloud Service
GDrive	Google Drive
OneDrive	Microsoft OneDrive
OneDrive4Biz	Microsoft OneDrive for Business
OpenStack	OpenStack
Rackspace	Rackspace
S3	Amazon S3
Wasabi	Wasabi

Instruction ID:

Value	Descriptions
MISSING_PARAMETER	Returned from a failed addition of predefined destination, due to a missing parameter with predefined value set. If encountered this ID, please refer to RESPONSE_BODY.Message for instructions and RESPONSE_BODY.AvailableOptions for the value set.
OAuth_OPEN_URL	Returned from a failed addition of predefined destination, due to undefined or empty authorization token in the request body. If encountered, please refer to RESPONSE_BODY.Message for instructions and RESPONSE_BODY.OAuthUrl for the url to kick start the authorization procedure.

JSON Objects:

DestinationSettings (FTP)			
Key	Type	Descriptions	
Host	String	The hostname of the FTP server.	
Port	String	The port of the FTP server.	
Username	String	The username of the FTP account.	
Password	String	The password of the FTP account.	
Ssl	Boolean	Whether the FTP connection will be in SSL mode.	

JSON Objects:

DestinationSettings (SFTP)			
Key	Type	Descriptions	
Host	String	The hostname of the SFTP server.	
Port	String	The port of the SFTP server.	
Username	String	The username of the SFTP account.	
Password	String	The password of the SFTP account.	

JSON Objects:

DestinationSettings (Local)			
Key	Type	Descriptions	
TopDir	String	The path to the target directory, can be network locations.	
Username	String	The username of the access account if the location access requires credentials.	
Password	String	The password of the access account if the location access requires credentials.	

JSON Objects:

DestinationSettings (Pooled)			
Key	Type	Descriptions	
DestinationIDList	JSON Array	An array of predefined destination ids, all of the ids should reference any existing predefined destination within the CBS server.	

JSON Objects:

DestinationSettings (RPS)			
Key	Type	Descriptions	
Host	String	The hostname of the target replication CBS server.	
Port	String	The port of the target replication CBS server.	
Username	String	The username of the replication account created within the replication CBS server.	
Password	String	The password of the replication account created within the replication CBS server.	
Ssl	Boolean	Whether the connection uses SSL, defaults to false .	

JSON Objects:

DestinationSettings (Aliyun)		
Key	Type	Descriptions
AccessKey	String	The access key.
SecretKey	String	The secret key.
Location	String	The location of this destination, please refer to the table “Aliyun Location” for the value set.
BucketName	String	The bucket name, optional.

Aliyun Location:

Location	Value
China (Hangzhou)	oss-cn-hangzhou
China (Shanghai)	oss-cn-shanghai
China (Qingdao)	oss-cn-qingdao
China (Beijing)	oss-cn-beijing
China (Zhangjiakou)	oss-cn-zhangjiakou
China (Hohhot)	oss-cn-huhehaote
China (Ulanqab)	oss-cn-wulanchabu
China (Shenzhen)	oss-cn-shenzhen
China (Heyuan)	oss-cn-heyuan
China (Guangzhou)	oss-cn-guangzhou
China (Chengdu)	oss-cn-chengdu
China (Hong Kong)	oss-cn-hongkong
Singapore	oss-ap-southeast-1
Australia (Sydney)	oss-ap-southeast-2
Malaysia (Kuala Lumpur)	oss-ap-southeast-3
Indonesia (Jakarta)	oss-ap-southeast-5
Japan (Tokyo)	oss-ap-northeast-1
India (Mumbai)	oss-ap-south-1
Germany (Frankfurt)	oss-eu-central-1
UK (London)	oss-eu-west-1
US (Silicon Valley)	oss-us-west-1
US (Virginia)	oss-us-east-1
UAE (Dubai)	oss-me-east-1

JSON Objects:

DestinationSettings (AWSCompatible)		
Key	Type	Descriptions
Host	String	The hostname of the AWS Compatible service.
Port	String	The port of the AWS Compatible service.
AccessKey	String	The access key.
SecretKey	String	The secret key.
BucketName	String	The bucket name.

JSON Objects:

DestinationSettings (Azure)		
Key	Type	Descriptions
StorageAccountName	String	The storage account name.
AccessKey	String	The access key of this storage account.
Region	String	The region for this storage, please refer to table “Azure Region” for the value set.
Azure Region:		
Region	Value	
Global	GLOBAL	
China	CHINA	
Germany	GERMANY	
USGOV	USGOV	

JSON Objects:

	DestinationSettings (Backblaze)		
	Key	Type	Descriptions
	KeyId	String	The key id.
	ApplicationKey	String	The application key.
	BucketName	String	The bucket name.

JSON Objects:

	DestinationSettings (CTYun)		
	Key	Type	Descriptions
	AccessKey	String	The access key.
	AccessSecretKey	String	The access secret key.

JSON Objects:

DestinationSettings (Dropbox)		
Key	Type	Descriptions
AccessToken	String	The authorization token retrieved from Dropbox site, when this field is undefined or empty, the request will fail, with RESPONSE_BODY.InstructionID set to OAuth_OPEN_URL and RESPONSE_BODY.OAuthUrl set to the url for kick-starting the authorization procedure.

JSON Objects:

DestinationSettings (GCS)		
Key	Type	Descriptions
AccessKey	String	The access key.
Secret	String	The secret key.
LocationType	String	The location type of this destination, please refer to the table “GCS Location Type” for the value set.
Location	String	The location of this destination, please refer to the table “GCS Location” for the value set.
StorageClass	String	The storage class name of this destination, please visit https://cloud.google.com/storage/docs/storage-classes for the latest documentation.

GCS Location Type:

Type	Value
Region	REGION
Multi-Region	MULTI_REGION
Dual-Region	DUAL_REGION

GCS Location:

Location	Value
Montréal	NORTHAMERICA-NORTHEAST1
Iowa	US-CENTRAL1
South Carolina	US-EAST1
Northern Virginia	US-EAST4
Oregon	US-WEST1
Los Angeles	US-WEST2
Salt Lake City	US-WEST3
Las Vegas	US-WEST4
São Paulo	SOUTHAMERICA-EAST1
Warsaw	EUROPE-NORTH1
Belgium	EUROPE-WEST1
London	EUROPE-WEST2
Frankfurt	EUROPE-WEST3
Netherlands	EUROPE-WEST4
Zürich	EUROPE-WEST6
Taiwan	ASIA-EAST1
Hong Kong	ASIA-EAST2
Tokyo	ASIA-NORTHEAST1
Osaka	ASIA-NORTHEAST2
Seoul	ASIA-NORTHEAST3
Mumbai	ASIA-SOUTH1
Singapore	ASIA-SOUTHEAST1
Jakarta	ASIA-SOUTHEAST2
Sydney	AUSTRALIA-SOUTHEAST1

JSON Objects:

DestinationSettings (GDrive)			
Key		Type	Descriptions
Token		String	The authorization token retrieved from Google Drive site, when this field is undefined or empty, the request will fail, with RESPONSE_BODY.InstructionID set to OAUTH_OPEN_URL and RESPONSE_BODY.OAuthUrl set to the url for kick-starting the authorization procedure.

JSON Objects:

DestinationSettings (OneDrive)		
Key	Type	Descriptions
Token	String	The token for the destination, if the provided value is undefined or empty, the request will fail, with RESPONSE_BODY.InstructionID set to OAUTH_OPEN_URL and RESPONSE_BODY.OAuthUrl set to the url for kick-starting the authorization procedure.

JSON Objects:		
	DestinationSettings (OneDrive4Biz)	
Key	Type	Descriptions
Token	String	The token for the destination, if the provided value is undefined or empty, the request will fail, with RESPONSE_BODY.InstructionID set to OAUTH_OPEN_URL and RESPONSE_BODY.OAuthUrl set to the url for kick-starting the authorization procedure.
Region	String	The region of the destination, Please refer to the table “ OneDrive4Biz Region ” for the value set.
OneDrive4Biz Region:		
Location	Value	
Global	GLOBAL	
China	CHINA	
Germany	GERMANY	

JSON Objects:

DestinationSettings (OpenStack)		
Key	Type	Descriptions
Host	String	The hostname of the OpenStack service.
Port	String	The port of the OpenStack service.
Username	String	The username of the service account.
Password	String	The password of the service account.
Project	String	The project name for this destination. If this value is undefined, RESPONSE_BODY.InstructionID set to MISSING_PARAMETERS , please follow the instruction provided in RESPONSE_BODY.Message to select the project for this destination.

JSON Objects:

DestinationSettings (Rackspace)

Key	Type	Descriptions
Username	String	The username of a Rackspace account.
ApiKey	String	The API key to for accessing Rackspace APIs.
Region	String	The region name of the Rackspace service, please refer to the table "Rackspace Region" for the value set.
ContainerName	String	The container name of this destination.

Rackspace Region:

Region	Value
Chicago	ORD
Dallas Ft Worth	DFW
Hong Kong	HKG
London	LON
Northern Virginia	IAD
Sydney	SYD

JSON Objects:

DestinationSettings (S3)		
Key	Type	Descriptions
AccessKey	String	The access key.
SecretKey	String	The secret key.
Location	String	The location of this destination, please refer to the table “S3 Location” for the value set.
StorageClass	String	The storage class of this destination, please refer to the table “S3 Storage Class” for the value set.
BucketName	String	The bucket name, optional.

S3 Location:

Location	Value
Africa (Cape Town)	af-south-1
Asia Pacific (Hong Kong)	ap-east-1
Asia Pacific (Mumbai)	ap-south-1
Asia Pacific (Osaka-Local)	ap-northeast-3
Asia Pacific (Seoul)	ap-northeast-2
Asia Pacific (Singapore)	ap-southeast-1
Asia Pacific (Sydney)	ap-southeast-2
Asia Pacific (Tokyo)	ap-northeast-1
Canada (Central)	ca-central-1
China (Beijing)	cn-north-1
China (Ningxia)	cn-northwest-1
Europe (Ireland)	eu-west-1
Europe (Frankfurt)	eu-central-1
Europe (London)	eu-west-2
Europe (Milan)	eu-south-1
Europe (Stockholm)	eu-north-1
AWS GovCloud (US-East)	us-gov-east-1
AWS GovCloud (US)	us-gov-west-1
Middle East (Bahrain)	me-south-1
South America (Sao Paulo)	sa-east-1
US East (Ohio)	us-east-2
US West (Northern California)	us-west-2

S3 Storage Class:

Type	Value
Standard: ideal for performance-sensitive use cases and frequently accessed data. This is the default storage class.	STANDARD
Standard - Infrequent Access Storage: (IA, for infrequent access) is optimized for long-lived and less frequently accessed data, for example backups and older data where of access has diminished, but the use case still demands high performance	STANDARD_IA
Intelligent - Tiering Storage: long-lived data with changing or unknown access patterns	INTELLIGENT_TIERING
One Zone - Infrequent Access Storage: long-lived, infrequently accessed, non-critical data	ONEZONE_IA
Reduced Redundancy Storage (RRS): (RRS) storage class is designed for noncritical, reproducible data stored at lower levels of redundancy than the STANDARD storage class, which reduces storage costs	REDUCED_REDUNDENCY

JSON Objects:

DestinationSettings (Wasabi)		
Key	Type	Descriptions
AccessKey	String	The access key.
SecretKey	String	The secret key.
BucketName	String	Optional, the bucket name.
Location	String	The location of the Wasabi service, please refer to the “Wasabi Location” table for the value set.
Wasabi Location:		
Location	Value	
Oregon	us-west-1	
Plano, Texas	us-central	
Northern Virginia	us-east-1	
Amsterdam	eu-central-1	

Example:	
	Input – Create Google Drive Predefined Destination
	<pre>{ "SysUser": "system", "SysPwd": "system", "Type": "GDrive", "SkipVerify": false, "DestinationSettings": { "Token": "9/abc0e-g5bc2XX2jepVtYRSiA6J4Q03rgVPfssYVu3xhyI9PiHqkiabmwM3I" } }</pre>
	Output
	<pre>{ "Status": "OK", "DestinationID": "-1620712268943" }</pre>

Example:	
	Input – Invalid Token for Google Drive Predefined Destination
	<pre>{ "SysUser": "system", "SysPwd": "system", "Type": "GDrive", "DestinationSettings": { "Token": "FAKE" } }</pre>
	Output
	<pre>{ "Status": "Error", "Message": "[GDriveManager\$GDriveAuthorization.getOAuth2TokensByTempKey] Failed to get OAuth2Tokens after retrieved from GDrive", "ExptType": "java.lang.Exception" }</pre>

Example:

Input – Invalid OpenStack Predefined Destination

```
{
  "SysUser": "system",
  "SysPwd": "system",
  "Type": "OpenStack",
  "DestinationSettings": {
    "Host": "10.0.0.48",
    "Port": "5000",
    "Username": "svcacct",
    "Password": "qwerty"
  }
}
```

Output -- Required Key Missing from Input

```
{
  "Status": "Error",
  "Message": "Please choose a value in (AvailableOptions) for the missing parameter (project)",
  "InstructionID": "MISSING_PARAMETER",
  "ExptType": "java.lang.Exception",
  "AvailableOptions": {
    "svcacct": "99b7b348e2fd4eaf9902dddf345b0eee",
    "aaaPlaceholder": "c3b3425857f74051a0470076cfc3edfd"
  }
}
```

Input – Correct OpenStack Predefined Destination

```
{
  "SysUser": "system",
  "SysPwd": "system",
  "Type": "OpenStack",
  "DestinationSettings": {
    "Host": "10.0.0.48",
    "Port": "5000",
    "Username": "svcacct",
    "Password": "qwerty",
    "Project": "99b7b348e2fd4eaf9902dddf345b0eee"
  }
}
```

3.2 System User

3.2.1 AddSysUser

This API can be used to add a system user(s).

This settings can be found on the AhsayCBS web console at:

🔗 [System Settings] > [Basic] > [Administrative Access]

NOTE: Starting with CBS v8.3.4.0 affecting all API, if CBS Administrative Access feature is enabled, may see error message "Your password has expired and must be changed. Please update in web console or by UpdateSysUser API" if system user's password is expired when calling any API except *UpdateSysUser.do*). *AddSysUser.do* and *UpdateSysUser.do* may see error regarding password complexity when complexity settings is enabled.

This setting can be found on the AhsayCBS web console at:

🔗 [Administrative Access] > [Password]

URL:			
	https://BACKUP_SERVER/obs/api/json/AddSysUser.do		
Available since version:			
	8.3.4.0		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Login name of the system user
	Password	String	
	PasswordHashed	Boolean	<p>An indicator for account’s input password is hashed or not.</p> <p>Default <i>false</i> if NOT in request.</p> <p>NOTE: If set the <i>PasswordHashed</i> to <i>false</i>, the ‘Password’ will be hashed and stored. If set as <i>true</i>, ‘Password’ will be stored as-is. If set the <i>PasswordHashed</i> to <i>true</i> and not using a hashed password, then can't login to the system.</p> <p>Hash algorithm: Plaintext input → encode Hash algorithm SHA-256 → output Hex bytes → encode Hex-Base64 → Hashed text output</p>
	Role	String	<p>Role of the system account</p> <p>The value can be set to one of the following:</p> <p>ADMIN READ_ONLY_ADMIN RESELLER API_ONLY</p>
	Hostname	String	Mandatory if "Role" is set to RESELLER
	IP	String	<p>Mandatory if "Role" is set to RESELLER</p> <p>Note: The IP address must include the HTTPS connector port, for example: 0.0.0.0:443</p>
	IsShowRebrandingPages	Boolean	Corresponding to the three checkboxes on CBS UI when edit a sub-admin Apples only if “Role” is set to RESELLER
	IsSendConsolidatedReport	Boolean	Corresponding to the three checkboxes on CBS UI when edit a sub-admin Apples only if “Role” is set to RESELLER

	IsFreeTrialOfferAllowed	Boolean	True = Allow sub-admin accounts to configure Free Trial options and allow to set users to Trial user type. Corresponding to the three checkboxes on CBS UI when edit a sub-admin Apples only if “Role” is set to RESELLER
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "system", "SysPwd": "system", "LoginName": "api_user", "Password": "abc123\$%", "PasswordHashed": "false", "Role": "API_ONLY" }		
	Output		
	{"Status": "OK"}		
	Output 2 - If another user with the same user name exist already		
	{ "Status": "Error", "Message": "Name is already used. Please use another name.", "ExptType": "java.lang.Exception" }		
Example:			
	Input – Input IsSendConsolidatedReport for Role=ADMIN		
	{ "SysUser": "system", "SysPwd": "system", "LoginName": "AdminTom", "Password": "abc123\$%", "Role": "ADMIN", "IsSendConsolidatedReport": "true" }		
	Output		
	{ "Status": "Error", "Message": "Update consolidated report setting for 'Admin' system user through 'UpdateServerConfig.do'", "ExptType": "java.lang.Exception" }		
Example:			
	Input – Input IsShowRebrandingPages for Role=ADMIN		
	{ "SysUser": "system", "SysPwd": "system", "LoginName": "AdminTom ", "Password": "abc123\$%", "Role": "ADMIN", "IsShowRebrandingPages": "false" }		
	Output		
	{ "Status": "Error", "Message": "Invalid parameter IsShowRebrandingPages for ADMIN system user", "ExptType": "java.lang.Exception" }		

3.2.2 UpdateSysUser

This API can be used to update the password and Status of a system user.

This setting can be found on the AhsayCBS web console at:

🔗 [System Settings] > [Basic] > [Administrative Access]

NOTE: Starting with CBS v8.3.4.0 affecting all API, if CBS Administrative Access feature is enabled, may see error message "Your password has expired and must be changed. Please update in web console or by UpdateSysUser API" if system user's password is expired when calling any API except *UpdateSysUser.do*. *AddSysUser.do* and *UpdateSysUser.do* may see error regarding password complexity when complexity settings is enabled.

This setting can be found on the AhsayCBS web console at:

🔗 [Administrative Access] > [Password]

URL:			
	https://BACKUP_SERVER/obs/api/json/UpdateSysUser.do		
Available since version:			
	8.5.2.34		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Login name of the system user
	Password	String	Pass in plaintext password or hashed password. If passing hashed, include PasswordHashed key. Use ListSystemUsers.do to lookup <i>HashedPwd</i> .
	Status	String	"SUSPENDED" / "ENABLED"
	PasswordHashed	Boolean	An indicator for account's input password is hashed or not. Default <i>false</i> if NOT in request. NOTE: If set the <i>PasswordHashed</i> to <i>false</i> , the 'Password' will be hashed and stored. If set as <i>true</i> , 'Password' will be stored as-is. If set the <i>PasswordHashed</i> to <i>true</i> and not using a hashed password, then can't login to the system. Hash algorithm: Plaintext input → encode Hash algorithm SHA-256 → output Hex bytes → encode Hex-Base64 → Hashed text output
	IsShowRebrandingPages	Boolean	Corresponding to the three checkboxes on CBS UI when edit a sub-admin Apples only if "Role" is set to RESELLER
	IsSendConsolidatedReport	Boolean	Corresponding to the three checkboxes on CBS UI when edit a sub-admin Apples only if "Role" is set to RESELLER
	IsFreeTrialOfferAllowed	Boolean	True = Allow sub-admin accounts to configure Free Trial options and allow to set users to Trial user type. Corresponding to the three checkboxes on CBS UI when edit a sub-admin Apples only if "Role" is set to RESELLER
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"

Example:	
	Input
	<pre>{ "SysUser": "system", "SysPwd": "password", "LoginName": "admin123", "Password": "changepassword", "PasswordHashed": "false", }</pre>
	Output
	<pre>{"Status": "OK"}</pre>
Example:	
	Input - Missing the LoginName parameter
	<pre>{ "SysUser": "system", "SysPwd": "password", "Password": "changepassword" }</pre>
	Output
	<pre>{ "Status": "Error", "Message": "[Error] Parameter LoginName is null/empty!", "ExptType": "com.ahsay.obs.core.dbs.c" }</pre>

Example:	
	Input
	<pre>{ "SysUser": "system", "SysPwd": "password", "LoginName": "admin123", "Password": "changepassword", "Status": "ENABLED" }</pre>
	Output
	<pre>{"Status": "OK"}</pre>

Example:	
	Input
	<pre>{ "SysUser": "system", "SysPwd": "password", "LoginName": "admin123", "Password": "changepassword", "Status": "LOCKED" }</pre>
	Output
	<pre>{ "Status": "Error", "Message": "Invalid value. 'Status' must be 'ENABLED' or 'SUSPENDED'.", "ExptType": "com.ahsay.obs.core.dbs.DbsException" }</pre>

Example:**Input**

```
{
  "SysUser": "system",
  "SysPwd": "password",
  "LoginName": "admin123",
  "Password": "change password",
  "Status": 0
}
```

Output

```
{
  "Status": "Error",
  "Message": "JSONObject[\"Status\"] not a string.",
  "ExptType": "org.json.JSONException"
}
```

Example:**Input**

```
{
  "SysUser": "system",
  "SysPwd": "password"
}
```

Output

```
{
  "Status": "Error",
  "Message": "[Error] Parameter LoginName is null/empty!",
  "ExptType": "com.ahsay.obs.core.dbs.DbsException"
}
```

3.2.3 RemoveSysUser

This API can be used to remove a system user.

The related settings can be found on the AhsayCBS web console at:

🔗 [System Settings] > [Basic] > [Administrative Access]

URL:			
	https://BACKUP_SERVER/obs/api/json/RemoveSysUser.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	RemoveLoginName	String	Login name of the system user to remove
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "admin", "SysPwd": "password", "RemoveLoginName": "dummyAdmin" }		
	Output		
	{"Status": "OK"}		
Example:			
	Input 2 - If the system user does not exist		
	{ "SysUser": "admin", "SysPwd": "password", "RemoveLoginName": "nosuchuser" }		
	Output		
	{ "Status": "Error", "Message": "System user 'nosuchuser' does not exist", "ExptType": "org.json.JSONException" }		

3.2.4 AuthSystemUser

This API can be used to check whether the SysUser has admin right or not.

If the user type of the SysUser is Read-only Admin or API, an error status will be returned.

This setting can be found on the AhsayCBS web console at:

🔗 [System Settings] > [Basic] > [Administrative Access]

URL:			
	https://BACKUP_SERVER/obs/api/json/AuthSystemUser.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
Input - For SysUser with Admin role			
	{ "SysUser": "Admin", "SysPwd": "password" }		
Output			
	{ "Status": "OK" }		
Example:			
Input - For SysUser with Read-only Admin role			
	{ "SysUser": "Read-OnlyAdmin", "SysPwd": "password" }		
Output			
	{ "Status": "Error", "Message": "Incorrect system username/password", "ExptType": "com.ahsay.obs.core.dbs.c" }		

3.2.5 ListSystemUsers

This API lists the information of all system users.

The related settings can be found on the AhsayCBS web console:

🔗 [System Settings] > [Basic] > [Administrative Access]

URL:			
	https://BACKUP_SERVER/obs/api/json/ListSystemUsers.do		
Available since version:			
	8.5.2.34		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	RoleOnly	Boolean	List the role of system users only (SystemUserRole)
	Host	String	AhsayCBS's URL. It is required for calling API from Redirector only
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	Array of SystemUserRole or Array of SystemUser	If RoleOnly is true, an array of SystemUserRole is returned. Otherwise, an array of SystemUser is returned.
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
SystemUserRole			
	Key	Type	Descriptions
	Name	String	
	Role	String	The value can be any one of the following: ADMIN READ_ONLY_ADMIN RESELLER API_ONLY
SystemUser			
	Key	Type	Descriptions
	Name	String	
	Role	String	The value can be any one of the following: ADMIN READ_ONLY_ADMIN API_ONLY
	Status	String	"SUSPENDED" or "ENABLED"
	HashedPwd	String	
	IsShowRebrandingPages	Boolean	True = Show Branding UI
	IsSendConsolidatedReport	Boolean	True = Send Consolidated Reports
	IsFreeTrialOfferAllowed	Boolean	True = Free Trial options is allowed False = Free Trial option hidden, users cannot be set to Trial user type

Example:

Input

```
{
  "SysUser": "Admin",
  "SysPwd": "password"
}
```

Output

```
{
  "Status": "OK",
  "Data": [
    {
      "Name": "SysUser",
      "HashedPwd": "u8XmYeEGxtzY3G3RhkVML8ujxxD7TY5xpgyT6vB38HM=",
      "Role": "READ_ONLY_ADMIN",
      "Status": "ENABLED",
      "IsShowRebrandingPages": true,
      "IsFreeTrialOfferAllowed": true
    },
    {
      "Name": "dummySysUser",
      "HashedPwd": "taLJYlBhI2bqJy/6xtl0Sq9LRarNlqp8/Lkx7jtVgIk=",
      "Role": "ADMIN",
      "Status": "SUSPENDED",
      "IsSendConsolidatedReport": true,
      "IsShowRebrandingPages": true,
      "IsFreeTrialOfferAllowed": true
    },
    {
      "Name": "system",
      "HashedPwd": "u8XmYeEGxtzY3G3RhkVML8ujxxD7TY5xpgyT6vB38HM=",
      "Role": "ADMIN",
      "Status": "ENABLED",
      "IsSendConsolidatedReport": true,
      "IsShowRebrandingPages": false,
      "IsFreeTrialOfferAllowed": true
    },
    {
      "Role": "RESELLER",
      "Status": "ENABLED",
      "Owner": "",
      "HashedPwd": "bKE9UspwylPg8LsQHkjaiehiTeUdstl5JZOvaoQRgJA=",
      "IsSendConsolidatedReport": true,
      "IsShowRebrandingPages": true,
      "IsSendConsolidatedReport": true,
      "Name": "subadmin1",
      "IsFreeTrialOfferAllowed": true
    }
  ]
}
```

3.3 Group Policy

3.3.1 AddUserGroup

This API let you add a new User Group and allocate user to it.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [User Group]

URL:			
	https://BACKUP_SERVER/obs/api/json/AddUserGroup.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	UserGroupName	String	Group name
	Type	String	The value can be any one of the following: backup-user (Default value)
	UserIdList	String	Multiple login names, separated by commas, are accepted. For example: user1,user2,user3
	PolicyIDList	Array of String	Array of policy ID
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
	ID	String	
JSON Objects:			
	EditBillingContactBean		
	Key	Type	Descriptions
	ContactId	String	
	Name	String	
	Email	String	
	Address	String	
	Company	String	
	Website	String	
	Phone1	String	
	Phone2	String	
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "UserGroupName": "user-group" }		
	Output		
	{"Status": "OK", "ID": "1447039919940"}		
	Output 2 User group already in use		
	{ "Status": "Error", "Message": "The user group name is already in use", "ExptType": "java.lang.Exception" }		

Example:**Input Add user group and assign policy**

```
{  
  "SysUser": "api_user",  
  "SysPwd": "abc123$%",  
  "UserGroupName": "test-usergroup",  
  "PolicyIDList": ["1498011529749"]  
}
```

Output

```
{  
  "Status": "OK",  
  "ID": "1447039919940"  
}
```

3.3.2 DeletePolicyGroup

This API allows you to delete a policy group.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Policy Group]

URL:			
	https://BACKUP_SERVER/obs/api/json/DeletePolicyGroup.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	ID	String	ID of the policy group
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123", "ID": "1496989829495" }		
	Output		
	{ "Status": "OK" }		

3.3.3 DeletePolicyGroupFromUserGroup

This API allows you to deallocate a assigned policy group within a user group

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [User Group] > Click a usergroup
> [Assigned Policy]

URL:			
https://BACKUP_SERVER/obs/api/json/DeletePolicyGroupFromUserGroup.do			
Available since version:			
8.1			
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	UserGroupID	String	ID of User Group
	PolicyGroupID	String	ID of Policy Group
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "api", "SysPwd": "pwd", "UserGroupID": "1497233669967", "PolicyGroupID": "1497233409042" }		
	Output		
	{ "Status": "OK" }		
	Output 2 policy group not exist		
	{ "Status": "Error", "Message": "Policy group does not exist", "ExptType": "org.json.JSONException" }		

3.3.4 DeleteUserFromUserGroup

This API allows you to delete users in a user group.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup User] > Click a user>

[User Profile] > [User Group]

URL:			
	https://BACKUP_SERVER/obs/api/json/DeleteUserFromUserGroup.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	ID	String	ID of User Group
	UserIdList	String	Multiple login names, separated by commas, are accepted. For example: user1,user2,user3
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "api", "SysPwd": "pwd", "ID": "1497233669967", "UserIdList": "1497233409042, 1496977596356" }		
	Output		
	{"Status": "OK"}		
	Output 2 User not exist		
	{ "Status": "Error", "Message": "[UserCacheManager.NoSuchUserExpt] User '1497233409042' not found.", "ExptType": "com.ahsay.obs.core.dbs.Y" }		

3.3.5 DeleteUserGroup

This API allows you to delete a user group and all its information.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup User] > Click a user>

[User Profile] > [User Group]

URL:			
	https://BACKUP_SERVER/obs/api/json/DeleteUserGroup.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	ID	String	ID of user group
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123", "ID": "1497232492006" }		
	Output		
	{ "Status": "OK" }		
	Output 2 (user group not exist)		
	{ "Status": "Error", "Message": "[Error] Parameter UserGroupID, 1497232492006 does not existed!", "ExptType": "com.ahsay.obs.core.dbs.c" }		

3.3.6 ListPolicyGroups (v1,v2)

This API can be used to retrieve the group policy settings of a backup user.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Policy Group]

Note: For features introduced since version 8 (e.g. Office 365 SharePoint), you must use v2 ListPolicyGroups.do instead.

v1 ListPolicyGroups.do

URL:			
	https://BACKUP_SERVER/obs/api/json/ListPolicyGroups.do		
Available since version:			
	8.5.4		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role.
	SysPwd	String	Password of an AhsayCBS system user with admin role.
	LoginName	String	Username of the backup user
	PolicyGroupNameOnly	Boolean	Optional parameter, can be true / false, default value is false.
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	Array (data of NameInfo or PolicyGroup)	If parameter PolicyGroupNameOnly is true, only data under NameInfo is returned. Otherwise PolicyGroup is returned.
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	NameInfo		
	Key	Type	Descriptions
	PolicyGroupID	String	
	PolicyGroupName	String	
	PolicyGroup		
	Key	Type	Descriptions
	PreemptedValues	Array	
	Type	String	The value can be one of the following: BACKUP_USER SYSTEM_USER
	Owner	String	
	GuiSettings	Array	
	PreemptedBackupSetSettings	Array	
	BackupSetSettings	Array	
	UserSettings	Array	
	MobileSettings	Array	
	DefaultValues	Array	
	ID	String	ID of Policy Group
	Name	String	Name of Policy Group

Other parameters under PolicyGroup are outlined below:

PreemptedValues		
Key	Type	Descriptions
VmwareSettingsList	Array	
VolumeShadowCopySettingsList	Array	
AllowedIPSettingsList	Array	
FollowLinkSettingsList	Array	
InFileDeltaSettingsList	Array	
CompressionsSettingsList	Array	
WinUserAuthSettingsList	Array	
FileSettingsList	Array	For use with v1 UpdatePolicyGroup.do only.
GranularRestoreSettingsList	Array	
OpenDirectSettingsList	Array	
MswindowsSystemStateSettingsList	Array	
DestinationSettingsList	Array	
BandwidthControlSettingsList	Array	
NameSettingsList	Array	
MySQLSettingsList	Array	
FilePermissionsSettingsList	Array	
RetentionPolicySettingsList	Array	
ShadowProtectSettingsList	Array	
AdvancedSettingsList	Array	
CommandSettingsList	Array	
TemporaryDirectorySettingsList	Array	
OracleSettingsList	Array	
LotusNotesSettingsList	Array	
ReminderSettingsList	Array	
FilterSettingsList	Array	
MswindowsSystemSettingsList	Array	
LotusDominoSettingsList	Array	
ScheduleSettingsList	Array	
EncryptionSettingsList	Array	
ArchivedLogDeletionSettingsList	Array	
CdpSettingsList	Array	
GranularRestoreSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
VmwareSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
VmwareSetting		
Key	Type	Descriptions
Host	String	
Port	String	
Username	String	
Password	String	
Sshport	String	Port for SSH
Id	String	
Version	String	
AutoEnableCBT	Boolean	
AppliedValueSettings	Array	
OpenDirectSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	

AppliedValueSettings		
Key	Type	Descriptions
Id	String	
Type	String	For DefaultValues, this value is "default" For PreemptedValues, this value is "preempted"
Mode	String	For DefaultValues, this value is empty. For PreemptedValues, this value can be one of the following: prepend append override
Name	String	
Os	String	This value can be empty, one of the following: windows mac linux
AppliedModuleIDList	Array	The String can be any of the following values: FILE Cloud File Lotus Domino Lotus Notes Microsoft Exchange Server Microsoft Exchange Mail (MAPI) Microsoft SQL Server Microsoft Windows Virtualization Microsoft Windows System Backup MySQL Oracle Database Server ShadowProtect Bare Metal System State VMware Virtualization Office 365 Exchange Online If a String above is added to the array, that module is selected.
Version	String	This value can be empty, or non-empty for specific modules. For VMWare module, the value can be one of the following: APPVERSION_ESX_V2 APPVERSION_ESXI_V2 APPVERSION_VMSERVER1 APPVERSION_VMSERVER2 APPVERSION_WORKSTATION APPVERSION_WORKSTATION8 APPVERSION_PLAYER APPVERSION_FUSION APPVERSION_FUSION5 APPVERSION_VCENTER_V2 For Microsoft Exchange and Exchange Mail module, the value can be one of the following: 8 (For Microsoft Exchange Server 2007) 14 (For Microsoft Exchange Server 2010) 15 (For Microsoft Exchange Server 2013) DAG13 (For Microsoft Exchange Server 2013 (Database Availability Group)) For Microsoft Hyper-V module, the value can be one of the following: Microsoft Hyper-V Server Microsoft Hyper-V Server R2 Microsoft Hyper-V Server R2 (Failover Cluster) Microsoft Hyper-V Server 2012 Microsoft Hyper-V Server 2012 (Failover Cluster) Microsoft Hyper-V Server 2012 R2 Microsoft Hyper-V Server 2012 R2 (Failover Cluster)

VolumeShadowCopySettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
VolumeShadowCopySetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
AppliedValueSettings	Array	
AllowedIPSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
AllowedIPSetting		
Key	Type	Descriptions
Id	String	
AllowedIPList	Array	
AppliedValueSettings	Array	
AllowedIP		
Key	Type	Descriptions
Id	String	
StartIP	String	
EndIP	String	
FollowLinkSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
FollowLinkSetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
AppliedValueSettings	Array	
InFileDeltaSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
InFileDeltaSetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
WeeklyInFileDeltaSchedule	Array	
MonthlyInFileDeltaSchedule	Array	
MinDeltaFileSize	Long	
MaxNumOfDelta	Long	
MaxDeltaRatio	Long	
DeltaBlockSize	Long	
DefaultDeltaType	String	
AppliedValueSettings	Array	

WeeklyInFileDeltaSchedule		
Key	Type	Descriptions
Day	Array	The array contains 7 Strings, representing the delta type from Sunday to Saturday. The values of the Strings can be one of the following: F (For full backup) D (For differential delta) I (For incremental delta)
MonthlyInFileDeltaSchedule		
Key	Type	Descriptions
Date	Long	
Criteria	String	The value can be one of the following: Weekday Weekend Sunday Monday Tuesday Wednesday Thursday Friday Saturday
Occurrence	String	The value can be one of the following: First Second Third Fourth Last
Month	Array	The array contains 12 Strings, representing the delta type from January to December The values of the Strings can be one of the following: F (For full backup) D (For differential delta) I (For incremental delta)
CompressionsSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
OverwriteDefaultCompression	Boolean	If it is true, overwrite default compression type to "Optimal for Local" When the default compression type is <i>Fast</i> and 1. Destination of "Run on Server" backup set is AhsayCBS, <u>OR</u> 2. First destination of "Run on Client" backup set is 'local'. Only CompressionsSettingsList of DefaultValues has this param.
CompressionsSetting		
Key	Type	Descriptions
Id	String	
Type	String	The value can be empty, or one of the following: "GzipDefaultCompression" (Normal) "GzipBestSpeedCompression" (Fast) "SnappyDefaultCompression" (Optimal for local)
AppliedValueSettings	Array	
WinUserAuthSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	

WinUserAuthSetting		
Key	Type	Descriptions
Id	String	
Domain	String	
Password	String	
Username	String	
AppliedValueSettings	Array	
FileSettingsList		
Key	Type	Descriptions
Version	String	
@class	String	com.ahsay.obx.cxp.cpf.policy.values.source.FileSettings
WindowsOutlook	Boolean	Backup source shortcut to Outlook Applicable for File backup set only.
WindowsOutlookExpress	Boolean	Backup source shortcut to Outlook Express Applicable for File backup set only.
WindowsDesktop	Boolean	Backup source shortcut to Desktop Applicable for File backup set only.
WindowsFavourites	Boolean	Backup source shortcut to Favourites Applicable for File backup set only.
WindowsMail	Boolean	Backup source shortcut to Windows Mail Applicable for File backup set only.
WindowsMyDocuments	Boolean	Backup source shortcut to My Documents Applicable for File backup set only.
WindowsLiveMail	Boolean	Backup source shortcut to Windows Live Mail Applicable for File backup set only.
AppliedValueSettings	Array	
MswindowsSystemStateSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
MswindowsSystemStateSetting		
Key	Type	Descriptions
Id	String	
Version	String	
BackupTarget	String	
AppliedValueSettings	Array	
DestinationSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
DestinationSetting		
Key	Type	Descriptions
Id	String	
SystemDestinationIDList	Array	
DestinationList	Array	
SystemDestinationList	Array	
AppliedValueSettings	Array	

Destination		
Key	Type	Descriptions
Id	String	
BandwidthControlSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
BandwidthControlSetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
BandwidthControlList	Array	
Mode	String	The value can be one of the following: independent share
AppliedValueSettings	Array	
BandwithControl		
Key	Type	Descriptions
Name	String	
Id	String	
StartDay	Long	
StartHour	Long	
StartMinute	Long	
EndDay	Long	
EndHour	Long	
EndMinute	Long	
MaxTransferRateInBitsPerSec	Long	
NameSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
NameSetting		
Key	Type	Descriptions
Id	String	
Name	String	
AppliedValueSettings	Array	
MySQLSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
MySQLSetting		
Key	Type	Descriptions
Id	String	
Host	String	
Port	String	
Username	String	
Password	String	
MysqldumpPath	String	
Version	String	
AppliedValueSettings	Array	

FilePermissionsSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
FilePermissionsSetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
AppliedValueSettings	Array	
RetentionPolicySettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
RetentionPolicySetting		
Key	Type	Descriptions
Id	String	
Period	Long	
OverlapSensitive	Boolean	
AdvancedRetentionPolicyList	Array	
Type	String	The value can be one of the following: SIMPLE ADVANCED
Unit	String	The value can be one of the following: DAYS JOBS
AppliedValueSettings	Array	
AdvancedRetentionPolicy		
Key	Type	Descriptions
Name	String	
ReadOnly	Boolean	
Id	Long	
Type	String	The value can be one of the following: DAILY WEEKLY MONTHLY QUARTERLY YEARLY CUSTOM
NumbersToKeep	Integer	
Day	Integer	
Week	Integer	
Month	Integer	
Year	Integer	
DateType	String	It can be empty for daily or weekly retention policy, or one of the following: WEEK_OF_MONTH WEEK_OF_YEAR EXACT
Sun, Mon, Tue, Wed, Thu, Fri, Sat	Boolean	For weekly custom retention policy
ShadowProtectSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	

ShadowProtectSetting		
Key	Type	Descriptions
Id	String	
EncryptionAlgorithm	Long	
EncryptionPassword	String	
Version	String	
InstallLocation	String	
AppliedValueSettings	Array	
AdvancedSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
AdvancedSetting		
Key	Type	Descriptions
Id	String	
DeselectedSourceList	Array	
SelectedSourceList	Array	
Enable	Boolean	
AppliedValueSettings	Array	
CommandSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
CommandSetting		
Key	Type	Descriptions
Id	String	
PreCommandList	Array	
PostCommandList	Array	
AppliedValueSettings	Array	
Command		
Key	Type	Descriptions
Id	String	
Name	String	
Type	String	The value can be one of the following: pre (for Pre-command) post (for Post-command)
Command	String	
WorkingDir	String	
TemporaryDirectorySettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
OracleSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	

OracleSetting		
Key	Type	Descriptions
Id	String	
Host	String	
Port	String	
LoginID	String	
Password	String	
Sid	String	
Version	String	
AppliedValueSettings	Array	
LotusNotesSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
LotusNotesSetting		
Key	Type	Descriptions
Id	String	
NotesIniPath	String	
Version	String	
AppliedValueSettings	Array	
ReminderSettingsList		
Key	Type	Descriptions
Enable	Boolean	On-Off
List	Array of ReminderSettings	List of ReminderSettings
ReminderSetting		
Key	Type	Descriptions
OfflineNotificationDay	Long	This setting only applicable for v6 legacy backup users.
BackupIntervalHour	Long	00-23
OfflineBackupEnabled	Boolean	On-Off
OfflineBackupReminderComputerName	String	The computer name for the offline backup reminder
BackupIntervalDay	Long	00-31
ShowOfflineBackupReminder	Boolean	
LogoutBackupReminderEnabled	Boolean	On-Off
LogoutBackupReminderComputerName	String	The computer name for logout backup reminder
Id	String	
AppliedValueSettings	Array	
FilterSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
FilterSetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
FilterList	Array	

AppliedValueSettings	Array	
Filter		
Key	Type	Descriptions
Name	String	
PatternList	Array	
ApplyToDir	Boolean	
ApplyToFile	Boolean	
TopDir	String	
Type	String	The value can be one of the following: START_WITH END_WITH CONTAIN CUSTOM
MatchPatternAgainstFullPathOnly	Boolean	
Include	Boolean	
Only	Boolean	
Pattern		
Key	Type	Descriptions
Pattern	String	
MswindowsSystemSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
MswindowsSystemSetting		
Key	Type	Descriptions
Id	String	
Version	String	
BackupTarget	String	
AppliedValueSettings	Array	
LotusDominoSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
LotusDominoSetting		
Key	Type	Descriptions
Id	String	
Version	String	
NotesIniPath	String	
AppliedValueSettings	Array	
ScheduleSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
OverwriteDefaultCompression	Boolean	If it is true, overwrite default compression type to "Optimal for Local" When the default compression type is <i>Fast</i> and 1. Destination of "Run on Server" backup set is AhsayCBS, <u>OR</u> 2. First destination of "Run on Client" backup set is 'local'. Only CompressionsSettingsList of DefaultValues has this param.
ScheduleSetting		
Key	Type	Descriptions
Id	String	
Enable	Boolean	
ComputerName	String	
DailyScheduleList	Array	

	WeeklyScheduleList	Array	
	MonthlyScheduleList	Array	
	CustomScheduleList	Array	
	AppliedValueSettings	Array	
DailySchedule			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Name	String	
	Id	Long	
	Hour	Integer	
	Minute	Integer	
	Duration	Integer	(optional) If no value is specified default value = -1 The value can be one of the following: until full backup completed = -1 stop backup after xx hours = 1 to 24
	BackupType	String	The value can be empty, or one of the following: DATABASE DIFFERENTIAL LOG SKIP POWEROFF For Oracle and Lotus Domino backup sets, the value must be DATABASE or LOG For MS SQL Server backup sets, the value must be DATABASE or DIFFERENTIAL For MS Exchange Server before 2007 and Shadow Protect backup sets, the value must be DATABASE, DIFFERENTIAL, or LOG For MS Exchange Server 2007 or above, the value must be DATABASE or LOG For VMware backup sets, if version is VMware Server 1 or VMware Player, the value must be SKIP or POWEROFF
	SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
	LastUpdateTime	Long	
	@class	String	com.ahsay.obx.cxp.obs.DailySchedule
WeeklySchedule			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Name	String	
	Id	Long	
	Hour	Integer	
	Minute	Integer	
	Duration	Integer	(optional) If no value is specified default value = -1 The value can be one of the following: until full backup completed = -1 stop backup after xx hours = 1 to 24
	BackupType	String	Refer to "BackupType" of DailySchedule
	Days	Array	The array contains 7 boolean values that correspond to Sunday to Saturday. If the boolean value is true, backup will be run on that day.
	SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
	LastUpdateTime	Long	
	@class	String	com.ahsay.obx.cxp.obs.WeeklySchedule

MonthlySchedule		
Key	Type	Descriptions
ReadOnly	Boolean	
Name	String	
Id	Long	
Hour	Integer	
Minute	Integer	
BackupType	String	Refer to "BackupType" of DailySchedule
Duration	Integer	
Occurrence	String	The value can be one of the following: First Second Third Fourth Last
Criteria	String	The value can be one of the following: Sunday Monday Tuesday Wednesday Thursday Friday Saturday Weekday Weekend
SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
LastUpdateTime	Long	
@class	String	com.ahsay.obx.cxp.obs.MonthlySchedule
CustomSchedule		
Key	Type	Descriptions
ReadOnly	Boolean	
Name	String	
Id	Long	
Hour	Integer	
Minute	Integer	
Duration	Integer	(optional) If no value is specified default value = -1 The value can be one of the following: until full backup completed = -1 stop backup after xx hours = 1 to 24
Date	String	In yyyy-MM-dd format
BackupType	String	Refer to "BackupType" of DailySchedule
SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
LastUpdateTime	Long	
@class	String	com.ahsay.obx.cxp.obs.CustomSchedule
EncryptionSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	

EncryptionSetting		
Key	Type	Descriptions
KeyLength	Long	
Key	String	
Type	String	
Algorithm	String	
Mode	String	
Id	String	
AppliedValueSettings	Array	
ArchivedLogDeletionSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
ArchivedLogDeletionSetting		
Key	Type	Descriptions
Id	String	
Enable	Boolean	
Days	Long	
AppliedValueSettings	Array	
CdpSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
CdpSetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
Type	String	<p>For version 6, the value can be one of the following:</p> <p>all-volume backup-source custom-source</p> <p>For version 8, the value is all-volume</p>
BackupType	String	<p>The value can be empty, or one of the following:</p> <p>DATABASE DIFFERENTIAL LOG SKIP POWEROFF</p> <p>For Oracle and Lotus Domino backup sets, the value must be DATABASE or LOG</p> <p>For MS SQL Server backup sets, the value must be DATABASE or DIFFERENTIAL</p> <p>For MS Exchange Server before 2007 and Shadow Protect backup sets, the value must be DATABASE, DIFFERENTIAL, or LOG</p> <p>For MS Exchange Server 2007 or above, the value must be DATABASE or LOG</p> <p>For VMware backup sets, if version is VMware Server 1 or VMware Player, the value must be SKIP or POWEROFF</p>
MinUpdateInterval	Long	
TimeMarkInterval	Long	

	MaxFileSize	Long	
	ComputerName	String	
	ExcludeSystemFiles	Boolean	Do not backup system files.
	FilterList	Array	
	CdpBackupControlSettings	Array	
	Version	String	The value can be one of the following: 6 7 8
	SelectedSourceList	Array	
	AppliedValueSettings	Array	
	CdpBackupControl		
	Key	Type	Descriptions
	ConsiderCpuUsage	Boolean	This setting only applicable for v6 legacy backup users.
	CpuUsage	Integer	This setting only applicable for v6 legacy backup users.
	ConsiderInput	Boolean	This setting only applicable for v6 legacy backup users.
	ObserveInputForSecond	Integer	This setting only applicable for v6 legacy backup users.
	ConsiderNetworkTraffic	Boolean	This setting only applicable for v6 legacy backup users.
	NetworkTraffic	Long	This setting only applicable for v6 legacy backup users.
	UserSettings		
	Key	Type	Descriptions
	MaximumBackupSetsSettings	Array	
	HostLimitSettings	Array	
	RunDirectLimitSettings	Array	
	AdvertisementSettings	Array	
	BackupDestinationSettings	Array	
	LogonSettings	Array	
	EncryptionKeySettings	Array	
	EmailReportSettings	Array	
	QuotaSettings	Array	
	CloudBackupSourceSettings	Array	
	PasswordSettings	Array	
	MaximumBackupSetsSettings		
	Key	Type	Descriptions
	Enable	Boolean	
	MaximumBackupSetsPerUser	Long	
	HostLimitSettings		
	Key	Type	Descriptions
	Enable	Boolean	
	MaxHost	Long	
	RunDirectLimitSettings		
	Key	Type	Descriptions
	Enable	Boolean	
	MaxVm	Long	
	AdvertisementSettings		
	Key	Type	Descriptions
	AdvertisementList	Array	
	Enable	Boolean	
	BackupDestinationSettings		
	Key	Type	Descriptions
	ApplicationName	String	
	SystemDestinationList	Array	
	Enable	Boolean	
	CustomDestinationList	Array	
	SystemDestIDList	Array	

CustomDestinationList		
Key	Type	Descriptions
Name	String	Name of the destination.
@class	String	The value can be one of the following: com.ahsay.obx.cxp.cpf.policy.userSettings.LocalDestination com.ahsay.obx.cxp.cpf.policy.userSettings.AmazonS3Destination com.ahsay.obx.cxp.cpf.policy.userSettings.AWSCompatibleDestination com.ahsay.obx.cxp.cpf.policy.userSettings.GoogleCloudStorageDestination com.ahsay.obx.cxp.cpf.policy.userSettings.GoogleDriveDestination com.ahsay.obx.cxp.cpf.policy.userSettings.PooledDestination com.ahsay.obx.cxp.cpf.policy.userSettings.WindowsAzureDestination com.ahsay.obx.cxp.cpf.policy.userSettings.OneDriveDestination com.ahsay.obx.cxp.cpf.policy.userSettings.OneDrive4BizDestination com.ahsay.obx.cxp.cpf.policy.userSettings.RackspaceDestination com.ahsay.obx.cxp.cpf.policy.userSettings.OpenStackDestination com.ahsay.obx.cxp.cpf.policy.userSettings.DropboxDestination com.ahsay.obx.cxp.cpf.policy.userSettings.FtpDestination com.ahsay.obx.cxp.cpf.policy.userSettings.SftpDestination com.ahsay.obx.cxp.cpf.policy.userSettings.ObsDestination com.ahsay.obx.cxp.cpf.policy.userSettings.AliyunDestination com.ahsay.obx.cxp.cpf.policy.userSettings.BackblazeDestination com.ahsay.obx.cxp.cpf.policy.userSettings.WasabiDestination
Enable	Boolean	true / false
ApplicationSecret	String	For Dropbox only.
ClientID	String	For Google Drive destination, OneDrive, OneDrive for Business (Global and Germany region) only.
ChinaClientID		For OneDrive for Business (China region) only.
ClientSecret	String	For Google Drive destination, OneDrive only.
RedirectURI	String	For OneDrive, OneDrive for Business (Global and Germany region) only.
ChinaRedirectURI	String	For OneDrive for Business (China region) only.
CloudBackupSourceSettings		
Key	Type	Descriptions
Enable	Boolean	true / false
CloudSourceList	Array	
CloudSourceList		
Key	Type	Descriptions
Name	String	Name of the destination.
@class	String	The value can be one of the following: com.ahsay.obx.cxp.cpf.policy.userSettings.LocalDestination com.ahsay.obx.cxp.cpf.policy.userSettings.AmazonS3Destination com.ahsay.obx.cxp.cpf.policy.userSettings.AWSCompatibleDestination com.ahsay.obx.cxp.cpf.policy.userSettings.GoogleCloudStorageDestination com.ahsay.obx.cxp.cpf.policy.userSettings.GoogleDriveDestination com.ahsay.obx.cxp.cpf.policy.userSettings.PooledDestination com.ahsay.obx.cxp.cpf.policy.userSettings.WindowsAzureDestination com.ahsay.obx.cxp.cpf.policy.userSettings.OneDriveDestination com.ahsay.obx.cxp.cpf.policy.userSettings.OneDrive4BizDestination com.ahsay.obx.cxp.cpf.policy.userSettings.RackspaceDestination com.ahsay.obx.cxp.cpf.policy.userSettings.OpenStackDestination com.ahsay.obx.cxp.cpf.policy.userSettings.DropboxDestination com.ahsay.obx.cxp.cpf.policy.userSettings.FtpDestination com.ahsay.obx.cxp.cpf.policy.userSettings.SftpDestination com.ahsay.obx.cxp.cpf.policy.userSettings.ObsDestination com.ahsay.obx.cxp.cpf.policy.userSettings.AliyunDestination com.ahsay.obx.cxp.cpf.policy.userSettings.BackblazeDestination com.ahsay.obx.cxp.cpf.policy.userSettings.WasabiDestination
ApplicationSecret	String	For Dropbox only.
ClientID	String	For Google Drive destination, OneDrive, OneDrive for Business (Global and Germany region) only.
ChinaClientID		For OneDrive for Business (China region) only.
ClientSecret	String	For Google Drive destination, OneDrive only.
RedirectURI	String	For OneDrive, OneDrive for Business (Global and Germany region) only.
ChinaRedirectURI	String	For OneDrive for Business (China region) only.

SystemDestination		
Key	Type	Descriptions
EnableQuota	Boolean	
Quota	Long	
DestinationID	Long	
DestinationName	String	
DestinationType	String	
QuotaSettings		
Key	Type	Descriptions
MaxPercentage	Long	
SharedQuota	Long	
Enable	Boolean	
SharedQuotaEnable	Boolean	
Compress	Boolean	
EncryptionKeySettings		
Key	Type	Descriptions
Enable	Boolean	
Upload	Boolean	
EmailReportSettings		
Key	Type	Descriptions
Enable	Boolean	
ConsolidatedReportSendMin	Long	
ConsolidatedReportSendHour	Long	
SendIndividualReport	Boolean	
SendConsolidatedReport	Boolean	
ContactList	Array	
Contact		
Key	Type	Descriptions
Id	String	
Name	String	
Email	String	Example: <i>name@domain.com</i>
EncryptEmail	Boolean	
EmailCertificate	String	
Address	String	Contact's Street address
Website	Boolean	
Company	String	
Phone1	String	
Phone2	String	
PasswordSettings		
Key	Type	Descriptions
Enable	Boolean	
Type	String	The value can be on of the following: DEFAULT CUSTOM
Number	Boolean	
Lowercase	Boolean	
MinimumLength	Long	
EnforcePasswordHistory	Boolean	
SpecialCharacters	Boolean	
Uppercase	Boolean	
PasswordAge	Long	
MinimumLengthEnabled	Boolean	
Regex	String	

LogonSettings		
Key	Type	Descriptions
Enable	Boolean	
InvalidLoginAttemptPeriod	Long	
BlockMinute	Long	
BlockHour	Long	
NumOfInvalidLogin	Long	
BlockType	String	The value can be on of the following: MINUTE HOUR FOREVER
GuiSettings		
Key	Type	Descriptions
PrivilegeList	Array	
Privilege		
Key	Type	Descriptions
Id	String	
EnableRead	Boolean	
EnableWrite	Boolean	If write privilege is not available for the privilege, this key is removed from the result
PrivilegeGroup	String	
PolicyName	String	
DisplayName	String	The name of privilege defined in properties
PreemptedBackupSetSettings		
Key	Type	Descriptions
PreemptedBackupSetList	Array	Refer to BackupSet JSON Object in ListBackupSets API
BackupSetSettings		
Key	Type	Descriptions
ExcludeFileSettings	Array	
ExcludeFileSettings		
Key	Type	Descriptions
Enable	Boolean	
LastModifiedPeriodType	String	The value can be one of the following: YEAR
LastModifiedType	String	The value can be one of the following: PERIOD
LastModifiedDate	Long	
ExcludeFileSize	Boolean	
ExcludeMappedDrive	Boolean	
ExcludeLastModified	Boolean	
FileSize	Long	
LastModifiedPeriod	Long	
DefaultValues		
Key	Type	Descriptions
VmwareSettingsList	Array	
VolumeShadowCopySettingsList	Array	
AllowedIPSettingsList	Array	
FollowLinkSettingsList	Array	
InFileDeltaSettingsList	Array	
CompressionsSettingsList	Array	
WinUserAuthSettingsList	Array	
FileSettingsList	Array	For use with v1 UpdatePolicyGroup.do only.
MswindowsSystemStateSettingsList	Array	

DestinationSettingsList	Array	
BandwidthControlSettingsList	Array	
NameSettingsList	Array	
MySQLSettingsList	Array	
FilePermissionsSettingsList	Array	
RetentionPolicySettingsList	Array	
ShadowProtectSettingsList	Array	
AdvancedSettingsList	Array	
CommandSettingsList	Array	
TemporaryDirectorySettingsList	Array	
OracleSettingsList	Array	
LotusNotesSettingsList	Array	
ReminderSettingsList	Array	
FilterSettingsList	Array	
MswindowsSystemSettingsList	Array	
LotusDominoSettingsList	Array	
ScheduleSettingsList	Array	
EncryptionSettingsList	Array	
ArchivedLogDeletionSettingsList	Array	
CdpSettingsList	Array	
OpendirectSettingsList	Array	
GranularRestoreSettingsList	Array	

Return Values:

Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

Example:

Input

```
{
  "SysUser": "api",
  "SysPwd": "pwd",
  "LoginName": "user",
  "PolicyGroupNameOnly": true
}
```

Output

```
{
  "Status": "OK",
  "Data": [
    {
      "PolicyGroupName": "Default settings",
      "PolicyGroupID": "2"
    }
  ],
  "Info": "Deprecated. As of version 7.15.6.38, replaced by v2 API /obs/api/json/2/ListPolicyGroups."
}
```

Note: For features introduced since version 8 (e.g. Office 365 SharePoint), you must use v2 ListPolicyGroups.do instead.

v2 ListPolicyGroups.do

For features related to Quota Management, administrator needs to utilize v2 ListPolicyGroups.do.

While AhsayCBS version 8 or above is backward compatible with API calls in previous format, it is highly recommended to use the new version of the API instead.

URL:			
	https://BACKUP_SERVER/obs/api/json/2/ListPolicyGroups.do		
Available since version:			
	8.5.4		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role.
	SysPwd	String	Password of an AhsayCBS system user with admin role.
	LoginName	String	Username of the backup user
	PolicyGroupNameOnly	Boolean	Optional parameter, can be true / false, default value is false.
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	Array (data of NameInfo or PolicyGroup)	If parameter PolicyGroupNameOnly is true, only data under NameInfo is returned. Otherwise PolicyGroup is returned.
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	NameInfo		
	Key	Type	Descriptions
	PolicyGroupID	String	
	PolicyGroupName	String	
	PolicyGroup		
	Key	Type	Descriptions
	PreemptedValues	Array	
	Type	String	The value can be one of the following: BACKUP_USER SYSTEM_USER
	Owner	String	
	GuiSettings	Array	
	PreemptedBackupSetSettings	Array	
	BackupSetSettings	Array	
	UserSettings	Array	
	MobileSettings	Array	
	DefaultValues	Array	
	ID	String	ID of Policy Group
	Name	String	Name of Policy Group

Other parameters under PolicyGroup are outlined below:

PreemptedValues		
Key	Type	Descriptions
VmwareSettingsList	Array	
VolumeShadowCopySettingsList	Array	
AllowedIPSettingsList	Array	
FollowLinkSettingsList	Array	
InFileDeltaSettingsList	Array	
CompressionsSettingsList	Array	
WinUserAuthSettingsList	Array	
FileSettingsList	Array	For use with v1 UpdatePolicyGroup.do only.
GranularRestoreSettingsList	Array	
OpenDirectSettingsList	Array	
MswindowsSystemStateSettingsList	Array	
DestinationSettingsList	Array	
BandwidthControlSettingsList	Array	
NameSettingsList	Array	
MySQLSettingsList	Array	
FilePermissionsSettingsList	Array	
RetentionPolicySettingsList	Array	
ShadowProtectSettingsList	Array	
AdvancedSettingsList	Array	
CommandSettingsList	Array	
TemporaryDirectorySettingsList	Array	
OracleSettingsList	Array	
LotusNotesSettingsList	Array	
ReminderSettingsList	Array	
FilterSettingsList	Array	
MswindowsSystemSettingsList	Array	
LotusDominoSettingsList	Array	
ScheduleSettingsList	Array	
EncryptionSettingsList	Array	
ArchivedLogDeletionSettingsList	Array	
CdpSettingsList	Array	
SourceShortcutSettingsList	Array	
MariaDBSettingsList	Array	
GranularRestoreSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
VmwareSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
VmwareSetting		
Key	Type	Descriptions
Host	String	
Port	String	
Username	String	
Password	String	
Sshport	String	Port for ssh
Id	String	
Version	String	
AutoEnableCBT	Boolean	
AppliedValueSettings	Array	
OpenDirectSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	

AppliedValueSettings		
Key	Type	Descriptions
Id	String	
Type	String	For DefaultValues, this value is "default" For PreemptedValues, this value is "preempted"
Mode	String	For DefaultValues, this value is empty. For PreemptedValues, this value can be one of the following: prepend append override
Name	String	
Os	String	This value can be empty, one of the following: windows mac linux
AppliedModuleIDList	Array	The String can be any of the following values: FILE Cloud File Lotus Domino Lotus Notes MariaDB Microsoft Exchange Server Microsoft Exchange Mail (MAPI) Microsoft SQL Server Microsoft Windows Virtualization Microsoft Windows System Backup MySQL Oracle Database Server ShadowProtect Bare Metal System State VMware Virtualization Office 365 Exchange Online If a String above is added to the array, that module is selected.
Version	String	This value can be empty, or non-empty for specific modules. For VMWare module, the value can be one of the following: APPVERSION_ESX_V2 APPVERSION_ESXI_V2 APPVERSION_VMSERVER1 APPVERSION_VMSERVER2 APPVERSION_WORKSTATION APPVERSION_WORKSTATION8 APPVERSION_PLAYER APPVERSION_FUSION APPVERSION_FUSION5 APPVERSION_VCENTER_V2 For Microsoft Exchange and Exchange Mail module, the value can be one of the following: 8 (For Microsoft Exchange Server 2007) 14 (For Microsoft Exchange Server 2010) 15 (For Microsoft Exchange Server 2013) DAG13 (For Microsoft Exchange Server 2013 (Database Availability Group)) For Microsoft Hyper-V module, the value can be one of the following: Microsoft Hyper-V Server Microsoft Hyper-V Server R2 Microsoft Hyper-V Server R2 (Failover Cluster) Microsoft Hyper-V Server 2012 Microsoft Hyper-V Server 2012 (Failover Cluster) Microsoft Hyper-V Server 2012 R2 Microsoft Hyper-V Server 2012 R2 (Failover Cluster)

VolumeShadowCopySettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
VolumeShadowCopySetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
AppliedValueSettings	Array	
AllowedIPSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
AllowedIPSetting		
Key	Type	Descriptions
Id	String	
AllowedIPList	Array	
AppliedValueSettings	Array	
AllowedIP		
Key	Type	Descriptions
Id	String	
StartIP	String	
EndIP	String	
SourceShortcutSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
FollowLinkSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
FollowLinkSetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
AppliedValueSettings	Array	
InFileDeltaSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	

InFileDeltaSetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
WeeklyInFileDeltaSchedule	Array	
MonthlyInFileDeltaSchedule	Array	
MinDeltaFileSize	Long	
MaxNumOfDelta	Long	
MaxDeltaRatio	Long	
DeltaBlockSize	Long	
DefaultDeltaType	String	
AppliedValueSettings	Array	
WeeklyInFileDeltaSchedule		
Key	Type	Descriptions
Day	Array	<p>The array contains 7 Strings, representing the delta type from Sunday to Saturday.</p> <p>The values of the Strings can be one of the following:</p> <p>F (For full backup)</p> <p>D (For differential delta)</p> <p>I (For incremental delta)</p>
MonthlyInFileDeltaSchedule		
Key	Type	Descriptions
Date	Long	
Criteria	String	<p>The value can be one of the following:</p> <p>Weekday</p> <p>Weekend</p> <p>Sunday</p> <p>Monday</p> <p>Tuesday</p> <p>Wednesday</p> <p>Thursday</p> <p>Friday</p> <p>Saturday</p>
Occurrence	String	<p>The value can be one of the following:</p> <p>First</p> <p>Second</p> <p>Third</p> <p>Fourth</p> <p>Last</p>
Month	Array	<p>The array contains 12 Strings, representing the delta type from January to December</p> <p>The values of the Strings can be one of the following:</p> <p>F (For full backup)</p> <p>D (For differential delta)</p> <p>I (For incremental delta)</p>
CompressionsSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
OverwriteDefaultCompression	Boolean	<p>If it is true, overwrite default compression type to "Optimal for Local"</p> <p>When the default compression type is <i>Fast</i> and</p> <ol style="list-style-type: none"> 1. Destination of "Run on Server" backup set is AhsayCBS, <u>OR</u> 2. First destination of "Run on Client" backup set is 'local'. <p>Only CompressionsSettingsList of DefaultValues has this param.</p>

CompressionsSetting		
Key	Type	Descriptions
Id	String	
Type	String	The value can be empty, or one of the following: "GzipDefaultCompression" (Normal) "GzipBestSpeedCompression" (Fast) "SnappyDefaultCompression" (Optimal for local)
AppliedValueSettings	Array	
WinUserAuthSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
WinUserAuthSetting		
Key	Type	Descriptions
Id	String	
Domain	String	
Password	String	
Username	String	
AppliedValueSettings	Array	
SourceShortcutSettingsList		
Key	Type	Descriptions
Version	String	
@class	String	com.ahsay.obx.cxp.cpf.policy.values.source.FileSettings com.ahsay.obx.cxp.cpf.policy.values.source.Office365SourceShortcutSettings
WindowsOutlook	Boolean	Backup source shortcut to Outlook Applicable for File backup set only.
WindowsOutlookExpress	Boolean	Backup source shortcut to Outlook Express Applicable for File backup set only.
WindowsDesktop	Boolean	Backup source shortcut to Desktop Applicable for File backup set only.
WindowsFavourites	Boolean	Backup source shortcut to Favourites Applicable for File backup set only.
WindowsMail	Boolean	Backup source shortcut to Windows Mail Applicable for File backup set only.
WindowsMyDocuments	Boolean	Backup source shortcut to My Documents Applicable for File backup set only.
WindowsLiveMail	Boolean	Backup source shortcut to Windows Live Mail Applicable for File backup set only.
Destination	Array	Applicable for Office 365 backup set only.
OneDrive	Boolean	Backup source shortcut to OneDrive Applicable for Office 365 backup set only.
PublicFolders	Boolean	Backup source shortcut to OneDrive Applicable for Office 365 backup set only.
SiteCollections	Boolean	Backup source shortcut to Office 365 SharePoint Site Collections Applicable for Office 365 backup set only.
Outlook	Boolean	Backup source shortcut to Office 365 Outlook Applicable for Office 365 backup set only.
RunOnServer	Boolean	Run on Server option Applicable for Office 365 backup set only.

PersonalSites	Boolean	Backup source shortcut to Office 365 SharePoint Personal Sites Applicable for Office 365 backup set only.
AppliedValueSettings	Array	
MswindowsSystemStateSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
MswindowsSystemStateSetting		
Key	Type	Descriptions
Id	String	
Version	String	
BackupTarget	String	
AppliedValueSettings	Array	
DestinationSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
DestinationSetting		
Key	Type	Descriptions
Id	String	
SystemDestinationIDList	Array	
DestinationList	Array	
SystemDestinationList	Array	
AppliedValueSettings	Array	
Destination		
Key	Type	Descriptions
Id	String	
BandwidthControlSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
BandwidthControlSetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
BandwidthControlList	Array	
Mode	String	The value can be one of the following: independent share
AppliedValueSettings	Array	
BandwithControl		
Key	Type	Descriptions
Name	String	
Id	String	
StartDay	Long	
StartHour	Long	
StartMinute	Long	
EndDay	Long	
EndHour	Long	
EndMinute	Long	
MaxTransferRateInBitsPerSec	Long	

NameSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
NameSetting		
Key	Type	Descriptions
Id	String	
Name	String	
AppliedValueSettings	Array	
MySQLSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
MySQLSetting		
Key	Type	Descriptions
Id	String	
Host	String	
Port	String	
Username	String	
Password	String	
MysqldumpPath	String	
Version	String	
AppliedValueSettings	Array	
FilePermissionsSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
FilePermissionsSetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
AppliedValueSettings	Array	
RetentionPolicySettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
RetentionPolicySetting		
Key	Type	Descriptions
Id	String	
Period	Long	
OverlapSensitive	Boolean	
AdvancedRetentionPolicyList	Array	
Type	String	The value can be one of the following: SIMPLE ADVANCED
Unit	String	The value can be one of the following: DAYS JOBS
AppliedValueSettings	Array	

AdvancedRetentionPolicy		
Key	Type	Descriptions
Name	String	
ReadOnly	Boolean	
Id	Long	
Type	String	The value can be one of the following: DAILY WEEKLY MONTHLY QUARTERLY YEARLY CUSTOM
NumbersToKeep	Integer	
Day	Integer	
Week	Integer	
Month	Integer	
Year	Integer	
DateType	String	It can be empty for daily or weekly retention policy, or one of the following: WEEK_OF_MONTH WEEK_OF_YEAR EXACT
Sun, Mon, Tue, Wed, Thu, Fri, Sat	Boolean	For weekly custom retention policy
ShadowProtectSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
ShadowProtectSetting		
Key	Type	Descriptions
Id	String	
EncryptionAlgorithm	Long	
EncryptionPassword	String	
Version	String	
InstallLocation	String	
AppliedValueSettings	Array	
AdvancedSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
AdvancedSetting		
Key	Type	Descriptions
Id	String	
DeselectedSourceList	Array	
SelectedSourceList	Array	
Enable	Boolean	
AppliedValueSettings	Array	
CommandSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	

CommandSetting		
Key	Type	Descriptions
Id	String	
PreCommandList	Array	
PostCommandList	Array	
AppliedValueSettings	Array	
Command		
Key	Type	Descriptions
Id	String	
Name	String	
Type	String	The value can be one of the following: pre (for Pre-command) post (for Post-command)
Command	String	
WorkingDir	String	
TemporaryDirectorySettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
OracleSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
OracleSetting		
Key	Type	Descriptions
Id	String	
Host	String	
Port	String	
LoginID	String	
Password	String	
Sid	String	
Version	String	
AppliedValueSettings	Array	
LotusNotesSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
LotusNotesSetting		
Key	Type	Descriptions
Id	String	
NotesIniPath	String	
Version	String	
AppliedValueSettings	Array	
ReminderSettingsList		
Key	Type	Descriptions
Enable	Boolean	On-Off
List	Array of ReminderSettings	List of ReminderSettings

ReminderSetting		
Key	Type	Descriptions
OfflineNotificationDay	Long	This setting only applicable for v6 legacy backup users.
BackupIntervalHour	Long	00-23
OfflineBackupEnabled	Boolean	On-Off
OfflineBackupReminderComputerName	String	The computer name for the offline backup reminder
BackupIntervalDay	Long	00-31
ShowOfflineBackupReminder	Boolean	
LogoutBackupReminderEnabled	Boolean	On-Off
LogoutBackupReminderComputerName	String	The computer name for logout backup reminder
Id	String	
AppliedValueSettings	Array	
FilterSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
FilterSetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
FilterList	Array	
AppliedValueSettings	Array	
Filter		
Key	Type	Descriptions
Name	String	
PatternList	Array	
ApplyToDir	Boolean	
ApplyToFile	Boolean	
TopDir	String	
Type	String	The value can be one of the following: START_WITH END_WITH CONTAIN CUSTOM
MatchPatternAgainstFullPathOnly	Boolean	
Include	Boolean	
Only	Boolean	
Pattern		
Key	Type	Descriptions
Pattern	String	
MswindowsSystemSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	

MswindowsSystemSetting		
Key	Type	Descriptions
Id	String	
Version	String	
BackupTarget	String	
AppliedValueSettings	Array	
LotusDominoSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
LotusDominoSetting		
Key	Type	Descriptions
Id	String	
Version	String	
NotesIniPath	String	
AppliedValueSettings	Array	
ScheduleSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
ScheduleSetting		
Key	Type	Descriptions
Id	String	
Enable	Boolean	
ComputerName	String	
DailyScheduleList	Array	
WeeklyScheduleList	Array	
MonthlyScheduleList	Array	
CustomScheduleList	Array	
AppliedValueSettings	Array	
DailyScheduleList		
Key	Type	Descriptions
ReadOnly	Boolean	
Name	String	
Id	Long	
Hour	Integer	
Minute	Integer	
Duration	Integer	(optional) If no value is specified default value = -1 The value can be one of the following: until full backup completed = -1 stop backup after xx hours = 1 to 24
BackupType	String	The value can be empty, or one of the following: DATABASE DIFFERENTIAL LOG SKIP POWEROFF For Oracle and Lotus Domino backup sets, the value must be DATABASE or LOG For MS SQL Server backup sets, the value must be DATABASE or DIFFERENTIAL

			<p>For MS Exchange Server before 2007 and Shadow Protect backup sets, the value must be DATABASE, DIFFERENTIAL, or LOG</p> <p>For MS Exchange Server 2007 or above, the value must be DATABASE or LOG</p> <p>For VMware backup sets, if version is VMware Server 1 or VMware Player, the value must be SKIP or POWEROFF</p>
	SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
	LastUpdateTime	Long	
	@class	String	com.ahsay.obx.cxp.obs.DailySchedule
	BackupInterval	Integer	<p>Support periodic schedule backup for all backup set types</p> <p>The value can be -1 or one of the following: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60, 120, 180, 240, 360, 480, 720 (-1 means periodic schedule is disabled that it is a normal schedule.)</p>
WeeklyScheduleList			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Name	String	
	Id	Long	
	Hour	Integer	
	Minute	Integer	
	Duration	Integer	<p>(optional) If no value is specified default value = -1</p> <p>The value can be one of the following: until full backup completed = -1 stop backup after xx hours = 1 to 24</p>
	BackupType	String	Refer to "BackupType" of DailySchedule
	Days	Array	The array contains 7 boolean values that correspond to Sunday to Saturday. If the boolean value is true, backup will be run on that day.
	SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
	LastUpdateTime	Long	
	@class	String	com.ahsay.obx.cxp.obs.WeeklySchedule
	BackupInterval	Integer	<p>Support periodic schedule backup for all backup set types</p> <p>The value can be -1 or one of the following: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60, 120, 180, 240, 360, 480, 720 (-1 means periodic schedule is disabled that it is a normal schedule.)</p>
MonthlyScheduleList			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Name	String	
	Id	Long	
	Hour	Integer	
	Minute	Integer	
	BackupType	String	Refer to "BackupType" of DailySchedule
	Duration	Integer	
	Occurrence	String	<p>The value can be one of the following: First Second Third Fourth Last</p>
	Criteria	String	<p>The value can be one of the following: Sunday Monday Tuesday Wednesday Thursday</p>

			Friday Saturday Weekday Weekend
	SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
	LastUpdateTime	Long	
	@class	String	com.ahsay.obx.cxp.obs.MonthlySchedule
CustomScheduleList			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Name	String	
	Id	Long	
	Hour	Integer	
	Minute	Integer	
	Duration	Integer	(optional) If no value is specified default value = -1 The value can be one of the following: until full backup completed = -1 stop backup after xx hours = 1 to 24
	Date	String	In yyyy-MM-dd format
	BackupType	String	Refer to "BackupType" of DailySchedule
	SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
	LastUpdateTime	Long	
	@class	String	com.ahsay.obx.cxp.obs.CustomSchedule
EncryptionSettingsList			
	Key	Type	Descriptions
	Enable	Boolean	
	List	Array	
EncryptionSetting			
	Key	Type	Descriptions
	KeyLength	Long	
	Key	String	
	Type	String	
	Algorithm	String	
	Mode	String	
	Id	String	
	AppliedValueSettings	Array	
ArchivedLogDeletionSettingsList			
	Key	Type	Descriptions
	Enable	Boolean	
	List	Array	
ArchivedLogDeletionSetting			
	Key	Type	Descriptions
	Id	String	
	Enable	Boolean	
	Days	Long	
	AppliedValueSettings	Array	
CdpSettingsList			
	Key	Type	Descriptions
	Enable	Boolean	
	List	Array	

CdpSetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
Type	String	For version 6, the value can be one of the following: all-volume backup-source custom-source For version 8, the value is all-volume
BackupType	String	The value can be empty, or one of the following: DATABASE DIFFERENTIAL LOG SKIP POWEROFF For Oracle and Lotus Domino backup sets, the value must be DATABASE or LOG For MS SQL Server backup sets, the value must be DATABASE or DIFFERENTIAL For MS Exchange Server before 2007 and Shadow Protect backup sets, the value must be DATABASE, DIFFERENTIAL, or LOG For MS Exchange Server 2007 or above, the value must be DATABASE or LOG For VMware backup sets, if version is VMware Server 1 or VMware Player, the value must be SKIP or POWEROFF
MinUpdateInterval	Long	
TimeMarkInterval	Long	
MaxFileSize	Long	
ComputerName	String	
ExcludeSystemFiles	Boolean	Do not backup system files.
FilterList	Array	
CdpBackupControlSettings	Array	
Version	String	The value can be one of the following: 6 7 8
SelectedSourceList	Array	
AppliedValueSettings	AppliedValue Settings	
CdpBackupControl		
Key	Type	Descriptions
ConsiderCpuUsage	Boolean	This setting only applicable for v6 legacy backup users.
CpuUsage	Integer	This setting only applicable for v6 legacy backup users.
ConsiderInput	Boolean	This setting only applicable for v6 legacy backup users.
ObserveInputForSecond	Integer	This setting only applicable for v6 legacy backup users.
ConsiderNetworkTraffic	Boolean	This setting only applicable for v6 legacy backup users.
NetworkTraffic	Long	This setting only applicable for v6 legacy backup users.

UserSettings		
Key	Type	Descriptions
MaximumBackupSetsSettings	Array	
HostLimitSettings	Array	
RunDirectLimitSettings	Array	
AdvertisementSettings	Array	
BackupDestinationSettings	Array	Note: For v2 ListPolicyGroups.do, the EnableQuota and Quota parameters have been removed from this JSON object. They will be displayed under the UserQuotaSettings JSON object.
LogonSettings	Array	
EncryptionKeySettings	Array	
EmailReportSettings	Array	
UserQuotaSettings	Array	
QuotaSettings	Array	
CloiudBackupSourceSettings	Array	
PasswordSettings	Array	
SharedQuotaSettings	Array	
MaximumBackupSetsSettings		
Key	Type	Descriptions
Enable	Boolean	
MaximumBackupSetsPerUser	Long	
HostLimitSettings		
Key	Type	Descriptions
Enable	Boolean	
MaxHost	Long	
RunDirectLimitSettings		
Key	Type	Descriptions
Enable	Boolean	
MaxVm	Long	
AdvertisementSettings		
Key	Type	Descriptions
AdvertisementList	Array	
Enable	Boolean	
BackupDestinationSettings		
Key	Type	Descriptions
ApplicationName	String	
CustomDestinationList	Array	
SystemDestIDList	Array	
SystemDestinationList	Array	

CustomDestinationList (BackupDestinationSettings)		
Key	Type	Descriptions
Name	String	Name of the destination.
@class	String	The value can be one of the following: com.ahsay.obx.cxp.cpf.policy.userSettings.LocalDestination com.ahsay.obx.cxp.cpf.policy.userSettings.AmazonS3Destination com.ahsay.obx.cxp.cpf.policy.userSettings.AWSCompatibleDestination com.ahsay.obx.cxp.cpf.policy.userSettings.GoogleCloudStorageDestination com.ahsay.obx.cxp.cpf.policy.userSettings.GoogleDriveDestination com.ahsay.obx.cxp.cpf.policy.userSettings.PooledDestination com.ahsay.obx.cxp.cpf.policy.userSettings.WindowsAzureDestination com.ahsay.obx.cxp.cpf.policy.userSettings.OneDriveDestination com.ahsay.obx.cxp.cpf.policy.userSettings.OneDrive4BizDestination com.ahsay.obx.cxp.cpf.policy.userSettings.RackspaceDestination com.ahsay.obx.cxp.cpf.policy.userSettings.OpenStackDestination com.ahsay.obx.cxp.cpf.policy.userSettings.DropboxDestination com.ahsay.obx.cxp.cpf.policy.userSettings.FtpDestination com.ahsay.obx.cxp.cpf.policy.userSettings.SftpDestination com.ahsay.obx.cxp.cpf.policy.userSettings.ObsDestination com.ahsay.obx.cxp.cpf.policy.userSettings.AliyunDestination com.ahsay.obx.cxp.cpf.policy.userSettings.BackblazeDestination com.ahsay.obx.cxp.cpf.policy.userSettings.WasabiDestination
Enable	Boolean	true / false
ApplicationSecret	String	For Dropbox only.
ClientID	String	For Google Drive destination, OneDrive, OneDrive for Business (Global and Germany region) only.
ChinaClientID		For OneDrive for Business (China region) only.
ClientSecret	String	For Google Drive destination, OneDrive only.
RedirectURI	String	For OneDrive, OneDrive for Business (Global and Germany region) only.
ChinaRedirectURI	String	For OneDrive for Business (China region) only.
LogonSettings		
Key	Type	Descriptions
Enable	Boolean	
InvalidLoginAttemptPeriod	Long	
BlockMinute	Long	
BlockHour	Long	
NumOfInvalidLogin	Long	
BlockType	String	The value can be on of the following: MINUTE HOUR FOREVER
EncryptionKeySettings		
Key	Type	Descriptions
Enabled	Boolean	
Upload	Boolean	
EmailReportSettings		
Key	Type	Descriptions
Enable	Boolean	
ConsolidatedReportSendMin	Long	
ConsolidatedReportSendHour	Long	
SendIndividualReport	Boolean	
SendConsolidatedReport	Boolean	
ContactList	Array	
UserQuotaSettings		
Key	Type	Descriptions
Enable	Boolean	
QuotaList	Array	

QuotaList (UserQuotaSettings)		
Key	Type	Descriptions
Enabled	Boolean	
Quota	Long	Unit in byte.
DestinationName	String	Name of the backup destination.
DestinationKey	String	ID of the backup destination.
QuotaSettings		
Key	Type	Descriptions
Enable	Boolean	
Compress	Boolean	
CloudBackupSourceSettings		
Key	Type	Descriptions
Enable	Boolean	true / false
CloudSourceList	Array	
CloudSourceList (CloudBackupSourceSettings)		
Key	Type	Descriptions
Name	String	Name of the destination.
@class	String	The value can be one of the following: com.ahsay.obx.cxp.cpf.policy.userSettings.LocalDestination com.ahsay.obx.cxp.cpf.policy.userSettings.AmazonS3Destination com.ahsay.obx.cxp.cpf.policy.userSettings.AWSCCompatibleDestination com.ahsay.obx.cxp.cpf.policy.userSettings.GoogleCloudStorageDestination com.ahsay.obx.cxp.cpf.policy.userSettings.GoogleDriveDestination com.ahsay.obx.cxp.cpf.policy.userSettings.PooledDestination com.ahsay.obx.cxp.cpf.policy.userSettings.WindowsAzureDestination com.ahsay.obx.cxp.cpf.policy.userSettings.OneDriveDestination com.ahsay.obx.cxp.cpf.policy.userSettings.OneDrive4BizDestination com.ahsay.obx.cxp.cpf.policy.userSettings.RackspaceDestination com.ahsay.obx.cxp.cpf.policy.userSettings.OpenStackDestination com.ahsay.obx.cxp.cpf.policy.userSettings.DropboxDestination com.ahsay.obx.cxp.cpf.policy.userSettings.FtpDestination com.ahsay.obx.cxp.cpf.policy.userSettings.SftpDestination com.ahsay.obx.cxp.cpf.policy.userSettings.ObsDestination com.ahsay.obx.cxp.cpf.policy.userSettings.AliyunDestination com.ahsay.obx.cxp.cpf.policy.userSettings.BackblazeDestination com.ahsay.obx.cxp.cpf.policy.userSettings.WasabiDestination
ApplicationSecret	String	For Dropbox only.
ClientID	String	For Google Drive destination, OneDrive, OneDrive for Business (Global and Germany region) only.
ChinaClientID		For OneDrive for Business (China region) only.
ClientSecret	String	For Google Drive destination, OneDrive only.
RedirectURI	String	For OneDrive, OneDrive for Business (Global and Germany region) only.
ChinaRedirectURI	String	For OneDrive for Business (China region) only.
PasswordSettings		
Key	Type	Descriptions
Enable	Boolean	
Type	String	The value can be on of the following: DEFAULT CUSTOM
Number	Boolean	
Lowercase	Boolean	
MinimumLength	Long	
EnforcePasswordHistory	Boolean	
SpecialCharacters	Boolean	
Uppercase	Boolean	
PasswordAge	Long	
MinimumLengthEnabled	Boolean	
Regex	String	

SharedQuotaSettings		
Key	Type	Descriptions
Enabled	Boolean	
QuotaList	Array	
QuotaList (SharedQuotaSettings)		
Key	Type	Descriptions
Enabled	Boolean	
MaxPercentage	Long	
Quota	Long	Unit in byte.
DestinationName	String	Name of the backup destination.
DestinationKey	String	ID of the backup destination.
GuiSettings		
Key	Type	Descriptions
PrivilegeList	Array	
Privilege		
Key	Type	Descriptions
Id	String	
EnableRead	Boolean	
EnableWrite	Boolean	If write privilege is not available for the privilege, this key is removed from the result
PrivilegeGroup	String	
PolicyName	String	
DisplayName	String	The name of privilege defined in properties
PreemptedBackupSetSettings		
Key	Type	Descriptions
PreemptedBackupSetList	Array	Refer to BackupSet JSON Object in ListBackupSets API
BackupSetSettings		
Key	Type	Descriptions
ExcludeFileSettings	Array	
ExcludeFileSettings		
Key	Type	Descriptions
Enable	Boolean	
LastModifiedPeriodType	String	The value can be one of the following: YEAR
LastModifiedType	String	The value can be one of the following: PERIOD
LastModifiedDate	Long	
ExcludeFileSize	Boolean	
ExcludeMappedDrive	Boolean	
ExcludeLastModified	Boolean	
FileSize	Long	
LastModifiedPeriod	Long	
BackupSetTypeSettings		
Key	Type	Descriptions
BackupSetTypeList	Array	Newly added to v8.5 { "@class": "com.ahsay.obx.cpf.policy.backupSetSettings.MariaDBType" "Name": "MariaDB" }
Enable	Boolean	true/false

DefaultValues		
Key	Type	Descriptions
VmwareSettingsList	Array	
VolumeShadowCopySettingsList	Array	
AllowedIPSettingsList	Array	
FollowLinkSettingsList	Array	
InFileDeltaSettingsList	Array	
CompressionsSettingsList	Array	
WinUserAuthSettingsList	Array	
FileSettingsList	Array	For use with v1 UpdatePolicyGroup.do only.
GranularRestoreSettingsList	Array	
OpenDirectSettingsList	Array	
MswindowsSystemStateSettingsList	Array	
DestinationSettingsList	Array	
BandwidthControlSettingsList	Array	
NameSettingsList	Array	
MySQLSettingsList	Array	
FilePermissionsSettingsList	Array	
RetentionPolicySettingsList	Array	
ShadowProtectSettingsList	Array	
AdvancedSettingsList	Array	
CommandSettingsList	Array	
TemporaryDirectorySettingsList	Array	
OracleSettingsList	Array	
LotusNotesSettingsList	Array	
ReminderSettingsList	Array	
FilterSettingsList	Array	
MswindowsSystemSettingsList	Array	
LotusDominoSettingsList	Array	
ScheduleSettingsList	Array	
EncryptionSettingsList	Array	
ArchivedLogDeletionSettingsList	Array	
CdpSettingsList	Array	
SourceShortcutSettingsList	Array	
MariaDBSettingsList	Array	
Return Values:		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
Example:		
Input		
<pre>{ "SysUser": "api", "SysPwd": "pwd", "LoginName": "username", }</pre>		
Output		
<pre>{ "Status": "OK", "Data": [{ "PolicyGroupName": "Default settings", "PolicyGroupID": "2" }] }</pre>		

3.3.7 ListUserGroups

This API can be used to retrieve the information of a User Group.

The related settings can be found on the AhsayCBS web console at:

🔗 [Backup / Restore] > [User, Groups & Policies] > [User Group]

URL:			
	https://BACKUP_SERVER/obs/api/json/ListUserGroups.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	UserGroupID	String	Returns information of the user group with this ID. If UserGroupID and UserID are not provided, information of all user groups will be returned.
	UserID	String	Returns information of the user groups that contain the user. If UserGroupID and UserID are not provided, information of all user groups will be returned.
	UserGroupOnly	Boolean	Default value is false
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	UserGroupBasicInfo or UserGroupFullInfo	If UserGroupOnly is true, UserGroupBasicInfo is returned. Otherwise UserGroupFullInfo is returned.
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	UserGroupBasicInfo		
	Key	Type	Descriptions
	ID	String	
	Name	String	
	Type	String	BACKUP_USER
	Owner	String	
	UserGroupFullInfo		
	Key	Type	Descriptions
	ID	String	
	Name	String	
	Type	String	BACKUP_USER
	Owner	String	
	Users	Array of User	
	PolicyGroup	Array of Policy	
	User		
	Key	Type	Descriptions
	LoginName	String	Client user name
	Owner	String	
	UserId	String	
	Policy		
	Key	Type	Descriptions
	ID	String	

	Name	String	
Example:			
Input			
<pre>{ "SysUser": "api", "SysPwd": "pwd", "UserGroupID": "1496990008001" }</pre>			
Output			
<pre>{ "Status": "OK", "Data": [{ "Name": "ghellik", "Owner": "", "Type": "BACKUP_USER", "ID": "1496990008001" }] }</pre>			

3.3.8 ModifyUserGroup

This API let you modify the name of a User Group, add users or delete user to/from a User Group.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [User Group]

URL:			
	https://BACKUP_SERVER/obs/api/json/ModifyUserGroup.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	ID	String	User Group ID obtainable in from ListUserGroups API
	UserGroupName	String	Group name
	UserIdList	String	User names to be added to or removed from the user group. Multiple login names, separated by commas, are accepted. For example: user1,user2,user3
	Mode	String	The value can be any one of the following: A (Default value) D If the value is "A", users in UserIdList will be added to the user group. If the value is "D", users in UserIdList will be removed from the user group
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "ID": "1447039919940", "UserIdList": "user", "Mode": "D" }		
	Output		
	{"Status": "OK"}		
	Output 2 user not exist		
	{ "Status": "Error", "Message": "[UserCacheManager.NoSuchUserExpt] User 'user' not found.", "ExptType": "com.ahsay.obs.core.dbs.Y" }		

Example:

Input incorrect parameter mode

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%",
  "ID": "1447039919940",
  "UserIdList": "user",
  "Mode": "S"
}
```

Output

```
{
  "Status": "Error",
  "Message": "[Error] Parameter Mode must either be A or D!",
  "ExptType": "com.ahsay.obs.core.dbs.c"
}
```

3.3.9 UpdatePolicyGroup (v1,v2)

This API can be used to update settings of a Policy Group.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Policy Group]

Note: Retrieve all available parameters of policies that you can update by calling the ListPolicyGroups.do API first.

v1 UpdatePolicyGroup.do

URL:			
	https://BACKUP_SERVER/obs/api/json/UpdatePolicyGroup.do		
Available since version:			
	8.5.2		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	ID	String	Policy Group ID
	Name	String	Policy name (rename possible)
	Owner	String	Input SubAdmin name if Policy to be assigned to a SubAdmin
	For details of all available parameters, refer to the PolicyGroup JSON object outlined in the ListPolicyGroups chapter.		
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"

Example:	
	Input
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "Name": "api-test-policy_renamedbyUPGAPI", "ID": "1632367172249", "Owner": "", "UserSettings": { "HostLimitSettings": { "Enable": true, "MaxHost": 45 }, } }</pre>
	Output
	<pre>{ "Status": "OK", "Info": "Deprecated. As of version 7.15.6.38, replaced by v2 API /obs/api/json/2/UpdatePolicyGroups." }</pre>

Example:**Input**

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%",
  "Name": "api-test-policy",
  "ID": "1632367172249",
  "Owner": "",
  "PreemptedValues": {
    "VmwareSettingsList": {
      "Enable": false,
      "List": []
    },
    "VolumeShadowCopySettingsList": {
      "Enable": false,
      "List": []
    },
    "AllowedIPSettingsList": {
      "Enable": false,
      "List": []
    },
    "FollowLinkSettingsList": {
      "Enable": false,
      "List": []
    },
    "InFileDeltaSettingsList": {
      "Enable": false,
      "List": []
    },
    "CompressionsSettingsList": {
      "Enable": false,
      "List": []
    },
    "WinUserAuthSettingsList": {
      "Enable": false,
      "List": []
    },
    "FileSettingsList": {
      "Enable": false,
      "List": []
    },
    "MswindowsSystemStateSettingsList": {
      "Enable": false,
      "List": []
    },
    "DestinationSettingsList": {
      "Enable": false,
      "List": []
    },
    "BandwidthControlSettingsList": {
      "Enable": false,
      "List": []
    },
    "NameSettingsList": {
      "Enable": false,
      "List": []
    },
    "RetentionPolicySettingsList": {
      "Enable": false,
      "List": []
    },
    "FilePermissionsSettingsList": {
      "Enable": false,
      "List": []
    },
    "MySQLSettingsList": {
      "Enable": false,
      "List": []
    }
  }
}
```



```

"ShadowProtectSettingsList": {
  "Enable": false,
  "List": []
},
"AdvancedSettingsList": {
  "Enable": false,
  "List": []
},
"CommandSettingsList": {
  "Enable": false,
  "List": []
},
"TemporaryDirectorySettingsList": {
  "Enable": false,
  "List": []
},
"OracleSettingsList": {
  "Enable": false,
  "List": []
},
"ReminderSettingsList": {
  "Enable": false,
  "List": []
},
"LotusNotesSettingsList": {
  "Enable": false,
  "List": []
},
"FilterSettingsList": {
  "Enable": false,
  "List": []
},
"MswindowsSystemSettingsList": {
  "Enable": false,
  "List": []
},
"LotusDominoSettingsList": {
  "Enable": false,
  "List": []
},
"ScheduleSettingsList": {
  "Enable": false,
  "List": []
},
"ArchivedLogDeletionSettingsList": {
  "Enable": false,
  "List": []
},
"EncryptionSettingsList": {
  "Enable": false,
  "List": []
},
"CdpSettingsList": {
  "Enable": false,
  "List": []
}
},
"UserSettings": {
  "MaximumBackupSetsSettings": {
    "MaximumBackupSetsPerUser": 10,
    "Enable": false
  },
  "BackupDestinationSettings": {
    "ApplicationName": "",
    "CustomDestinationList": [
      {
        "ChinaClientID": "e71a1234-1234-1234-b2f4-ccf1aa830a78",
        "@class": "com.ahsay.obx.cxp.cpf.policy.userSettings.OneDrive4BizDestination",
        "ChinaRedirectURI": "https://backupserver/register/oauth2-office365.jsp",
        "Enable": true,
        "ClientID": "d349b19f-0a90-1234-1234-0caa8224da04",

```

```

"RedirectURI": "https://backupserserver/register/oauth2-office365.jsp",
"Name": "OneDrive4Biz"
},
],
"SystemDestIDList": [],
"Enable": false,
"SystemDestinationList": []
},
"QuotaSettings": {
"SharedQuota": 10737418240,
"MaxPercentage": 50,
"Enable": true,
"Compress": true,
"SharedQuotaEnable": false
},
"CloudBackupSourceSettings": {
"Enable": true,
"CloudSourceList": [
{
"ChinaClientID": " e71a1234-1234-1234-b2f4-ccf1aa830a78",
"@class": "com.ahsay.obx.cxp.cpf.policy.userSettings.OneDrive4BizSource",
"ChinaRedirectURI": "https://backupserver/register/oauth2-office365.jsp",
"ClientID": "d349b19f-0a90-1234-1234-0caa8224da04",
"RedirectURI": "https://backupserver/register/oauth2-office365.jsp",
"Name": "OneDrive4Biz"
}
]
},
"EncryptionKeySettings": {
"Enable": false,
"Upload": false
},
"EmailReportSettings": {
"ContactList": [],
"SendInactiveBSetReport": false,
"Enable": false,
"ConsolidatedReportSendMin": 0,
"SendIndividualReport": false,
"SendConsolidatedReport": false,
"InactiveBSetReportSendDay": 30,
"ConsolidatedReportSendHour": 0
},
"PasswordSettings": {
"EnforcePasswordHistory": true,
"MinimumLength": 6,
"SpecialCharacters": true,
"Uppercase": true,
"Enable": false,
"Lowercase": true,
"Number": true,
"Type": "DEFAULT",
"PasswordAge": 90,
"MinimumLengthEnabled": true,
"Regex": ""
},
"LogonSettings": {
"InvalidLoginAttemptPeriod": 30,
"Enable": false,
"NumOfInvalidLogin": 3,
"BlockMinute": 60,
"BlockType": "MINUTE",
"BlockHour": 24
}
},
"Type": "BACKUP_USER",
"PreemptedBackupSetSettings": {
"PreemptedBackupSetList": []
},
"GuiSettings": {
"PrivilegeList": [
{

```

```

    "PrivilegeGroup": "MainMenu",
    "PolicyName": "Backup",
    "EnableRead": true,
    "Id": "M-10001",
    "DisplayName": "Backup"
  },
  {
    "PrivilegeGroup": "MainMenu",
    "PolicyName": "Restore",
    "EnableRead": true,
    "Id": "M-10002",
    "DisplayName": "Restore"
  },
  {
    "PrivilegeGroup": "MainMenu",
    "PolicyName": "BackupSets",
    "EnableRead": true,
    "Id": "M-10003",
    "DisplayName": "Backup Sets"
  },
  {
    "PrivilegeGroup": "MainMenu",
    "PolicyName": "Settings",
    "EnableRead": true,
    "Id": "M-10004",
    "DisplayName": "Settings"
  },
  {
    "PrivilegeGroup": "MainMenu",
    "PolicyName": "Report",
    "EnableRead": true,
    "Id": "M-10005",
    "DisplayName": "Report"
  },
  {
    "PrivilegeGroup": "MainMenu",
    "PolicyName": "Utilities",
    "EnableRead": true,
    "Id": "M-10006",
    "DisplayName": "Utilities"
  },
  {
    "PrivilegeGroup": "MainMenu",
    "PolicyName": "Profile",
    "EnableRead": true,
    "Id": "M-10007",
    "DisplayName": "Profile"
  },
  {
    "PrivilegeGroup": "MainMenu",
    "PolicyName": "Language",
    "EnableRead": true,
    "Id": "M-10008",
    "DisplayName": "Language",
    "EnableWrite": true
  },
  {
    "PrivilegeGroup": "MainMenu",
    "PolicyName": "Information",
    "EnableRead": true,
    "Id": "M-10009",
    "DisplayName": "Information"
  },
  {
    "PrivilegeGroup": "MainMenu",
    "PolicyName": "Advertisement",
    "EnableRead": true,
    "Id": "M-10010",
    "DisplayName": "Advertisement"
  },
  },
  {

```

<pre> "PrivilegeGroup": "MainMenu", "PolicyName": "SocialMedia", "EnableRead": true, "Id": "M-10011", "DisplayName": "Links to Social Media" }, { "PrivilegeGroup": "Profile", "PolicyName": "ProfileGeneralTab", "EnableRead": true, "Id": "P-10001", "DisplayName": "General Tab" }, { "PrivilegeGroup": "Profile", "PolicyName": "ProfileGeneralSettings", "EnableRead": true, "Id": "P-10002", "DisplayName": "General Settings", "EnableWrite": true }, { "PrivilegeGroup": "Profile", "PolicyName": "ContactsTab", "EnableRead": true, "Id": "P-10003", "DisplayName": "Contacts Tab" }, { "PrivilegeGroup": "Profile", "PolicyName": "ContactsSettings", "EnableRead": true, "Id": "P-10004", "DisplayName": "Contacts Settings", "EnableWrite": true }, { "PrivilegeGroup": "Profile", "PolicyName": "TimezoneTab", "EnableRead": true, "Id": "P-10005", "DisplayName": "Timezone Tab" }, { "PrivilegeGroup": "Profile", "PolicyName": "TimezoneSettings", "EnableRead": true, "Id": "P-10006", "DisplayName": "Timezone Settings", "EnableWrite": true }, { "PrivilegeGroup": "Profile", "PolicyName": "PasswordTab", "EnableRead": true, "Id": "P-10007", "DisplayName": "Password Tab" }, { "PrivilegeGroup": "Profile", "PolicyName": "PasswordSettings", "EnableRead": true, "Id": "P-10008", "DisplayName": "Password Settings", "EnableWrite": true }, { "PrivilegeGroup": "Profile", "PolicyName": "EncryptionRecoveryTab", "EnableRead": true, "Id": "P-10009", </pre>	
---	--

<pre> "DisplayName": "Encryption Recovery Tab" }, { "PrivilegeGroup": "Profile", "PolicyName": "EncryptionRecoverySettings", "EnableRead": true, "Id": "P-100010", "DisplayName": "Encryption Recovery Settings", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsName", "EnableRead": true, "Id": "BS-10003", "DisplayName": "General Settings - Name", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsIBMDomino", "EnableRead": true, "Id": "BS-10004", "DisplayName": "General Settings - IBM Domino", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsIBMNotes", "EnableRead": true, "Id": "BS-10005", "DisplayName": "General Settings - IBM Notes", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsMSEXchangeServer", "EnableRead": true, "Id": "BS-10006", "DisplayName": "General Settings - MS Exchange Server", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsMSHyperV", "EnableRead": true, "Id": "BS-10007", "DisplayName": "General Settings - MS HyperV", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsMSSQLServer", "EnableRead": true, "Id": "BS-10008", "DisplayName": "General Settings - MSSQL Server", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsWindowsSystemBackup", "EnableRead": true, "Id": "BS-10009", "DisplayName": "General Settings - Windows System Backup", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsWindowsSystemStateBackup", "EnableRead": true, "Id": "BS-10010", </pre>	
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<pre> "DisplayName": "General Settings - Windows System State Backup", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsMySQLServer", "EnableRead": true, "Id": "BS-10011", "DisplayName": "General Settings - MySQL Server", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsOracleDatabaseServer", "EnableRead": true, "Id": "BS-10012", "DisplayName": "General Settings - Oracle Database Server", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsVMwareHost", "EnableRead": true, "Id": "BS-10013", "DisplayName": "General Settings - VMware Host", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsShadowProtect", "EnableRead": true, "Id": "BS-10014", "DisplayName": "General Settings - Shadow Protect", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsWindowsUserAuthentication", "EnableRead": true, "Id": "BS-10015", "DisplayName": "General Settings - Windows User Authentication", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "SourceTab", "EnableRead": true, "Id": "BS-10016", "DisplayName": "Source Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "SourceSettingsBackupSource", "EnableRead": true, "Id": "BS-10017", "DisplayName": "Source Settings - BackupSource", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "SourceSettingsFilter", "EnableRead": true, "Id": "BS-10018", "DisplayName": "Source Settings - Filter", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "BackupScheduleTab", "EnableRead": true, "Id": "BS-10020", </pre>	
--	--

<pre> "DisplayName": "Backup Schedule Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "BackupScheduleSettings", "EnableRead": true, "Id": "BS-10021", "DisplayName": "Backup Schedule Settings", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "ContinuousBackupTab", "EnableRead": true, "Id": "BS-10022", "DisplayName": "Continuous Backup Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "ContinuousBackupSettings", "EnableRead": true, "Id": "BS-10023", "DisplayName": "Continuous Backup Settings", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "DestinationTab", "EnableRead": true, "Id": "BS-10024", "DisplayName": "Destination Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "DestinationSettings", "EnableRead": true, "Id": "BS-10025", "DisplayName": "Destination Settings", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "InFileDeltaTab", "EnableRead": true, "Id": "BS-10026", "DisplayName": "In-File Delta Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "InFileDeltaSettings", "EnableRead": true, "Id": "BS-10027", "DisplayName": "In-File Delta Settings", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "RetentionPolicyTab", "EnableRead": true, "Id": "BS-10028", "DisplayName": "Retention Policy Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "RetentionPolicySettings", "EnableRead": true, "Id": "BS-10029", "DisplayName": "Retention Policy Settings", "EnableWrite": true }, }, { </pre>	
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<pre> "PrivilegeGroup": "BackupSets", "PolicyName": "CommandLineToolTab", "EnableRead": true, "Id": "BS-10030", "DisplayName": "Command Line Tool Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "CommandLineToolSettings", "EnableRead": true, "Id": "BS-10031", "DisplayName": "Command Line Tool Settings", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "ReminderTab", "EnableRead": true, "Id": "BS-10032", "DisplayName": "Reminder Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "ReminderSettings", "EnableRead": true, "Id": "BS-10033", "DisplayName": "Reminder Settings", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "BandwidthControlTab", "EnableRead": true, "Id": "BS-10034", "DisplayName": "Bandwidth Control Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "BandwidthControlSettings", "EnableRead": true, "Id": "BS-10035", "DisplayName": "Bandwidth Control Settings", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "OthersTab", "EnableRead": true, "Id": "BS-10038", "DisplayName": "Others Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "OthersSettingsTemporaryDirectory", "EnableRead": true, "Id": "BS-10039", "DisplayName": "Others Settings - Temporary Directory", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "OthersSettingsFollowLink", "EnableRead": true, "Id": "BS-10040", "DisplayName": "Others Settings - Follow Link", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "OthersSettingsVolumeShadowCopy", "EnableRead": true, </pre>	
---	--

<pre> "Id": "BS-10041", "DisplayName": "Others Settings - Volume Shadow Copy", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "OthersSettingsFilePermissions", "EnableRead": true, "Id": "BS-10042", "DisplayName": "Others Settings - File Permissions", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "OthersSettingsArchivedLogDeletion", "EnableRead": true, "Id": "BS-10043", "DisplayName": "Others Settings - Archived Log Deletion", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "OthersSettingsCompressions", "EnableRead": true, "Id": "BS-10044", "DisplayName": "Others Settings - Compressions", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "OthersSettingsEncryption", "EnableRead": true, "Id": "BS-10045", "DisplayName": "Others Settings - Encryption" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "OthersSettingsChangedBlockTracking", "EnableRead": true, "Id": "BS-10046", "DisplayName": "Others Settings - Changed Block Tracking", "EnableWrite": true }, { "PrivilegeGroup": "Settings", "PolicyName": "ProxyTab", "EnableRead": true, "Id": "S-10001", "DisplayName": "Proxy Tab" }, { "PrivilegeGroup": "Settings", "PolicyName": "ProxySettings", "EnableRead": true, "Id": "S-10002", "DisplayName": "Proxy Settings", "EnableWrite": true }, { "PrivilegeGroup": "Settings", "PolicyName": "WindowsEventLogTab", "EnableRead": true, "Id": "S-10005", "DisplayName": "Windows Event Log Tab" }, { "PrivilegeGroup": "Settings", "PolicyName": "WindowsEventLogSettings", "EnableRead": true, "Id": "S-10006", "DisplayName": "Windows Event Log Settings", </pre>	
---	--

```

"EnableWrite": true
},
{
  "PrivilegeGroup": "Utilities",
  "PolicyName": "DataIntegrityCheck",
  "EnableRead": true,
  "Id": "U-10001",
  "DisplayName": "Data Integrity Check"
},
{
  "PrivilegeGroup": "Utilities",
  "PolicyName": "SpaceFreeingUp",
  "EnableRead": true,
  "Id": "U-10002",
  "DisplayName": "Space Freeing Up"
},
{
  "PrivilegeGroup": "Utilities",
  "PolicyName": "DeleteBackupData",
  "EnableRead": true,
  "Id": "U-10003",
  "DisplayName": "Delete Backup Data"
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "AddAndRemove",
  "EnableRead": true,
  "Id": "BS-10001",
  "DisplayName": "Add and Remove Backup Set"
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "GeneralTab",
  "EnableRead": true,
  "Id": "BS-10002",
  "DisplayName": "General Tab"
}
}
},
"ID": "1446023471399",
"BackupSetSettings": {
  "ExcludeFileSettings": {
    "LastModifiedPeriod": 10,
    "FileSize": 10737418240,
    "ExcludeMappedDrive": true,
    "ExcludeLastModified": true,
    "LastModifiedPeriodType": "YEAR",
    "LastModifiedType": "PERIOD",
    "Enable": false,
    "LastModifiedDate": -1,
    "ExcludeFileSize": true
  }
},
"DefaultValues": {
  "VmwareSettingsList": {
    "Enable": false,
    "List": []
  },
  "VolumeShadowCopySettingsList": {
    "Enable": false,
    "List": []
  },
  "AllowedIPSettingsList": {
    "Enable": false,
    "List": []
  },
  "FollowLinkSettingsList": {
    "Enable": false,
    "List": []
  },
  "InFileDeltaSettingsList": {

```

```

    "Enable": false,
    "List": []
  },
  "CompressionsSettingsList": {
    "Enable": false,
    "List": []
  },
  "WinUserAuthSettingsList": {
    "Enable": false,
    "List": []
  },
  "FileSettingsList": {
    "Enable": false,
    "List": []
  },
  "MswindowsSystemStateSettingsList": {
    "Enable": false,
    "List": []
  },
  "DestinationSettingsList": {
    "Enable": false,
    "List": []
  },
  "BandwidthControlSettingsList": {
    "Enable": false,
    "List": []
  },
  "NameSettingsList": {
    "Enable": false,
    "List": []
  },
  "RetentionPolicySettingsList": {
    "Enable": false,
    "List": []
  },
  "FilePermissionsSettingsList": {
    "Enable": false,
    "List": []
  },
  "MySQLSettingsList": {
    "Enable": false,
    "List": []
  },
  "ShadowProtectSettingsList": {
    "Enable": false,
    "List": []
  },
  "AdvancedSettingsList": {
    "Enable": false,
    "List": []
  },
  "CommandSettingsList": {
    "Enable": false,
    "List": []
  },
  "TemporaryDirectorySettingsList": {
    "Enable": false,
    "List": []
  },
  "OracleSettingsList": {
    "Enable": false,
    "List": []
  },
  "ReminderSettingsList": {
    "Enable": false,
    "List": []
  },
  "LotusNotesSettingsList": {
    "Enable": false,
    "List": []
  },
}

```

	<pre> "FilterSettingsList": { "Enable": false, "List": [] }, "MswindowsSystemSettingsList": { "Enable": false, "List": [] }, "LotusDominoSettingsList": { "Enable": false, "List": [] }, "ScheduleSettingsList": { "Enable": false, "List": [] }, "ArchivedLogDeletionSettingsList": { "Enable": false, "List": [] }, "EncryptionSettingsList": { "Enable": false, "List": [] }, "CdpSettingsList": { "Enable": false, "List": [] } } </pre>
	Output
	<pre> { "Status": "OK", "Info": "Deprecated. As of version 7.15.6.38, replaced by v2 API /obs/api/json/2/UpdatePolicyGroups." } </pre>
	Output - Example if ClientID is empty from the input
	<pre> { "Status": "Error", "Message": "ClientID cannot be empty in OneDrive4Biz of CustomDestinationList!", "ExptType": "java.lang.Exception", "Info": "Deprecated. As of version 7.15.6.38, replaced by v2 API /obs/api/json/2/UpdatePolicyGroups." } </pre>
	Output - Example if RedirectURI is empty from the input
	<pre> { "Status": "Error", "Message": "RedirectURI cannot be empty in OneDrive4Biz of CustomDestinationList!", "ExptType": "java.lang.Exception", "Info": "Deprecated. As of version 7.15.6.38, replaced by v2 API /obs/api/json/2/UpdatePolicyGroups." } </pre>
	Output - Example if ChinaClientID is empty from the input
	<pre> { "Status": "Error", "Message": "ChinaClientID cannot be empty in OneDrive4Biz of CustomDestinationList!", "ExptType": "java.lang.Exception", "Info": "Deprecated. As of version 7.15.6.38, replaced by v2 API /obs/api/json/2/UpdatePolicyGroups." } </pre>
	Output - Example if ChinaRedirectURI is empty from the input
	<pre> { "Status": "Error", "Message": "ChinaRedirectURI cannot be empty in OneDrive4Biz of CustomDestinationList!", "ExptType": "java.lang.Exception", "Info": "Deprecated. As of version 7.15.6.38, replaced by v2 API /obs/api/json/2/UpdatePolicyGroups." } </pre>
	Output - Example if v2 parameter SourceShortcutSettingsList was in the input
	<pre> { "Status": "Error", "Message": "Key value 'SourceShortcutSettingsList' in 'DefaultValues' is only available in UpdatePolicyGroup v2 API", } </pre>

```
"ExptType": "java.lang.Exception",  
"Info": "Deprecated. As of version 7.15.6.38, replaced by v2 API /obs/api/json/2/UpdatePolicyGroups."  
}
```

Note: The same error will also be displayed if the ClientID, RedirectURI, ChinaClientID, or ChinaRedirectURI is empty in the CloudSourceList.

Also, to update features introduced since version 8 (e.g. Office 365 SharePoint), you must use v2 ListPolicyGroups.do instead.

v2 UpdatePolicyGroup.do

For features related to Quota Management, administrator needs to utilize v2 UpdatePolicyGroup.do.

While AhsayCBS version 8 or above is backward compatible with API calls in previous format, it is highly recommended to use the version 2 of the API instead.

URL:			
	https://BACKUP_SERVER/obs/api/json/2/UpdatePolicyGroup.do		
Available since version:			
	8.5.2		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	ID	String	Policy Group ID
	Name	String	Policy name (rename possible)
	Owner	String	Input SubAdmin name if Policy to be assigned to a SubAdmin
	For details of all available parameters, refer to the PolicyGroup JSON object outlined in the ListPolicyGroups chapter.		
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"

Example:	
	Input
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "Name": "api-test-policy_renamedbyUPGAPI", "ID": "1632367172249", "Owner": "", "UserSettings": { "HostLimitSettings": { "Enable": true, "MaxHost": 45 }, }, }</pre>
	Output
	<pre>{ "Status": "OK", }</pre>

Example:**Input**

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%",
  "Name": "api-test-policy",
  "ID": "1632367172249",
  "Owner": "",
  "PreemptedValues": {
    "VmwareSettingsList": {
      "Enable": false,
      "List": []
    },
    "VolumeShadowCopySettingsList": {
      "Enable": false,
      "List": []
    },
    "AllowedIPSettingsList": {
      "Enable": false,
      "List": []
    },
    "FollowLinkSettingsList": {
      "Enable": false,
      "List": []
    },
    "InFileDeltaSettingsList": {
      "Enable": false,
      "List": []
    },
    "CompressionsSettingsList": {
      "Enable": false,
      "List": []
    },
    "WinUserAuthSettingsList": {
      "Enable": false,
      "List": []
    },
    "FileSettingsList": {
      "Enable": false,
      "List": []
    },
    "MswindowsSystemStateSettingsList": {
      "Enable": false,
      "List": []
    },
    "DestinationSettingsList": {
      "Enable": false,
      "List": []
    },
    "BandwidthControlSettingsList": {
      "Enable": false,
      "List": []
    },
    "NameSettingsList": {
      "Enable": false,
      "List": []
    },
    "RetentionPolicySettingsList": {
      "Enable": false,
      "List": []
    },
    "FilePermissionsSettingsList": {
      "Enable": false,
      "List": []
    },
    "MySQLSettingsList": {
      "Enable": false,
      "List": []
    }
  }
}
```

```

"ShadowProtectSettingsList": {
  "Enable": false,
  "List": []
},
"AdvancedSettingsList": {
  "Enable": false,
  "List": []
},
"CommandSettingsList": {
  "Enable": false,
  "List": []
},
"TemporaryDirectorySettingsList": {
  "Enable": false,
  "List": []
},
"OracleSettingsList": {
  "Enable": false,
  "List": []
},
"ReminderSettingsList": {
  "Enable": false,
  "List": []
},
"LotusNotesSettingsList": {
  "Enable": false,
  "List": []
},
"FilterSettingsList": {
  "Enable": false,
  "List": []
},
"MswindowsSystemSettingsList": {
  "Enable": false,
  "List": []
},
"LotusDominoSettingsList": {
  "Enable": false,
  "List": []
},
"ScheduleSettingsList": {
  "Enable": false,
  "List": []
},
"ArchivedLogDeletionSettingsList": {
  "Enable": false,
  "List": []
},
"EncryptionSettingsList": {
  "Enable": false,
  "List": []
},
"CdpSettingsList": {
  "Enable": false,
  "List": []
}
},
"UserSettings": {
  "MaximumBackupSetsSettings": {
    "MaximumBackupSetsPerUser": 10,
    "Enable": false
  },
  "BackupDestinationSettings": {
    "ApplicationName": "",
    "CustomDestinationList": [
      {
        "ChinaClientID": "e71a1234-1234-1234-b2f4-ccf1aa830a78",
        "@class": "com.ahsay.obx.cxp.policy.userSettings.OneDrive4BizDestination",
        "ChinaRedirectURI": "https://backupserver/register/oauth2-office365.jsp",
        "Enable": true,
        "ClientID": "d349b19f-0a90-1234-1234-0caa8224da04",

```



```

"RedirectURI": "https://backupserver/register/oauth2-office365.jsp",
"Name": "OneDrive4Biz"
},
],
"SystemDestIDList": [],
"Enable": false,
"SystemDestinationList": []
},
"QuotaSettings": {
"SharedQuota": 10737418240,
"MaxPercentage": 50,
"Enable": true,
"Compress": true,
"SharedQuotaEnable": false
},
"CloudBackupSourceSettings": {
"Enable": true,
"CloudSourceList": [
{
"ChinaClientID": " e71a1234-1234-1234-b2f4-ccf1aa830a78",
"@class": "com.ahsay.obx.cxp.cpf.policy.userSettings.OneDrive4BizSource",
"ChinaRedirectURI": "https://backupserver/register/oauth2-office365.jsp",
"ClientID": "d349b19f-0a90-1234-1234-0caa8224da04",
"RedirectURI": "https://backupserver/register/oauth2-office365.jsp",
"Name": "OneDrive4Biz"
}
]
},
"EncryptionKeySettings": {
"Enable": false,
"Upload": false
},
"EmailReportSettings": {
"ContactList": [],
"SendInactiveBSetReport": false,
"Enable": false,
"ConsolidatedReportSendMin": 0,
"SendIndividualReport": false,
"SendConsolidatedReport": false,
"InactiveBSetReportSendDay": 30,
"ConsolidatedReportSendHour": 0
},
"PasswordSettings": {
"EnforcePasswordHistory": true,
"MinimumLength": 6,
"SpecialCharacters": true,
"Uppercase": true,
"Enable": false,
"Lowercase": true,
"Number": true,
"Type": "DEFAULT",
"PasswordAge": 90,
"MinimumLengthEnabled": true,
"Regex": ""
},
"LogonSettings": {
"InvalidLoginAttemptPeriod": 30,
"Enable": false,
"NumOfInvalidLogin": 3,
"BlockMinute": 60,
"BlockType": "MINUTE",
"BlockHour": 24
}
},
"Type": "BACKUP_USER",
"PreemptedBackupSetSettings": {
"PreemptedBackupSetList": []
},
"GuiSettings": {
"PrivilegeList": [
{

```

```

"PrivilegeGroup": "MainMenu",
"PolicyName": "Backup",
"EnableRead": true,
"Id": "M-10001",
"DisplayName": "Backup"
},
{
"PrivilegeGroup": "MainMenu",
"PolicyName": "Restore",
"EnableRead": true,
"Id": "M-10002",
"DisplayName": "Restore"
},
{
"PrivilegeGroup": "MainMenu",
"PolicyName": "BackupSets",
"EnableRead": true,
"Id": "M-10003",
"DisplayName": "Backup Sets"
},
{
"PrivilegeGroup": "MainMenu",
"PolicyName": "Settings",
"EnableRead": true,
"Id": "M-10004",
"DisplayName": "Settings"
},
{
"PrivilegeGroup": "MainMenu",
"PolicyName": "Report",
"EnableRead": true,
"Id": "M-10005",
"DisplayName": "Report"
},
{
"PrivilegeGroup": "MainMenu",
"PolicyName": "Utilities",
"EnableRead": true,
"Id": "M-10006",
"DisplayName": "Utilities"
},
{
"PrivilegeGroup": "MainMenu",
"PolicyName": "Profile",
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"Id": "M-10007",
"DisplayName": "Profile"
},
{
"PrivilegeGroup": "MainMenu",
"PolicyName": "Language",
"EnableRead": true,
"Id": "M-10008",
"DisplayName": "Language",
"EnableWrite": true
},
{
"PrivilegeGroup": "MainMenu",
"PolicyName": "Information",
"EnableRead": true,
"Id": "M-10009",
"DisplayName": "Information"
},
{
"PrivilegeGroup": "MainMenu",
"PolicyName": "Advertisement",
"EnableRead": true,
"Id": "M-10010",
"DisplayName": "Advertisement"
},
{

```

<pre> "PrivilegeGroup": "MainMenu", "PolicyName": "SocialMedia", "EnableRead": true, "Id": "M-10011", "DisplayName": "Links to Social Media" }, { "PrivilegeGroup": "Profile", "PolicyName": "ProfileGeneralTab", "EnableRead": true, "Id": "P-10001", "DisplayName": "General Tab" }, { "PrivilegeGroup": "Profile", "PolicyName": "ProfileGeneralSettings", "EnableRead": true, "Id": "P-10002", "DisplayName": "General Settings", "EnableWrite": true }, { "PrivilegeGroup": "Profile", "PolicyName": "ContactsTab", "EnableRead": true, "Id": "P-10003", "DisplayName": "Contacts Tab" }, { "PrivilegeGroup": "Profile", "PolicyName": "ContactsSettings", "EnableRead": true, "Id": "P-10004", "DisplayName": "Contacts Settings", "EnableWrite": true }, { "PrivilegeGroup": "Profile", "PolicyName": "TimezoneTab", "EnableRead": true, "Id": "P-10005", "DisplayName": "Timezone Tab" }, { "PrivilegeGroup": "Profile", "PolicyName": "TimezoneSettings", "EnableRead": true, "Id": "P-10006", "DisplayName": "Timezone Settings", "EnableWrite": true }, { "PrivilegeGroup": "Profile", "PolicyName": "PasswordTab", "EnableRead": true, "Id": "P-10007", "DisplayName": "Password Tab" }, { "PrivilegeGroup": "Profile", "PolicyName": "PasswordSettings", "EnableRead": true, "Id": "P-10008", "DisplayName": "Password Settings", "EnableWrite": true }, { "PrivilegeGroup": "Profile", "PolicyName": "EncryptionRecoveryTab", "EnableRead": true, "Id": "P-10009", </pre>	
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<pre> "DisplayName": "Encryption Recovery Tab" }, { "PrivilegeGroup": "Profile", "PolicyName": "EncryptionRecoverySettings", "EnableRead": true, "Id": "P-100010", "DisplayName": "Encryption Recovery Settings", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsName", "EnableRead": true, "Id": "BS-10003", "DisplayName": "General Settings - Name", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsIBMDomino", "EnableRead": true, "Id": "BS-10004", "DisplayName": "General Settings - IBM Domino", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsIBMNotes", "EnableRead": true, "Id": "BS-10005", "DisplayName": "General Settings - IBM Notes", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsMSEXchangeServer", "EnableRead": true, "Id": "BS-10006", "DisplayName": "General Settings - MS Exchange Server", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsMSHyperV", "EnableRead": true, "Id": "BS-10007", "DisplayName": "General Settings - MS HyperV", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsMSSQLServer", "EnableRead": true, "Id": "BS-10008", "DisplayName": "General Settings - MSSQL Server", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsWindowsSystemBackup", "EnableRead": true, "Id": "BS-10009", "DisplayName": "General Settings - Windows System Backup", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsWindowsSystemStateBackup", "EnableRead": true, "Id": "BS-10010", </pre>	
--	--

<pre> "DisplayName": "General Settings - Windows System State Backup", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsMySQLServer", "EnableRead": true, "Id": "BS-10011", "DisplayName": "General Settings - MySQL Server", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsOracleDatabaseServer", "EnableRead": true, "Id": "BS-10012", "DisplayName": "General Settings - Oracle Database Server", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsVMwareHost", "EnableRead": true, "Id": "BS-10013", "DisplayName": "General Settings - VMware Host", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsShadowProtect", "EnableRead": true, "Id": "BS-10014", "DisplayName": "General Settings - Shadow Protect", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "GeneralSettingsWindowsUserAuthentication", "EnableRead": true, "Id": "BS-10015", "DisplayName": "General Settings - Windows User Authentication", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "SourceTab", "EnableRead": true, "Id": "BS-10016", "DisplayName": "Source Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "SourceSettingsBackupSource", "EnableRead": true, "Id": "BS-10017", "DisplayName": "Source Settings - BackupSource", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "SourceSettingsFilter", "EnableRead": true, "Id": "BS-10018", "DisplayName": "Source Settings - Filter", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "BackupScheduleTab", "EnableRead": true, "Id": "BS-10020", </pre>	
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<pre> "DisplayName": "Backup Schedule Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "BackupScheduleSettings", "EnableRead": true, "Id": "BS-10021", "DisplayName": "Backup Schedule Settings", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "ContinuousBackupTab", "EnableRead": true, "Id": "BS-10022", "DisplayName": "Continuous Backup Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "ContinuousBackupSettings", "EnableRead": true, "Id": "BS-10023", "DisplayName": "Continuous Backup Settings", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "DestinationTab", "EnableRead": true, "Id": "BS-10024", "DisplayName": "Destination Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "DestinationSettings", "EnableRead": true, "Id": "BS-10025", "DisplayName": "Destination Settings", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "InFileDeltaTab", "EnableRead": true, "Id": "BS-10026", "DisplayName": "In-File Delta Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "InFileDeltaSettings", "EnableRead": true, "Id": "BS-10027", "DisplayName": "In-File Delta Settings", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "RetentionPolicyTab", "EnableRead": true, "Id": "BS-10028", "DisplayName": "Retention Policy Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "RetentionPolicySettings", "EnableRead": true, "Id": "BS-10029", "DisplayName": "Retention Policy Settings", "EnableWrite": true }, }, { </pre>	
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<pre> "PrivilegeGroup": "BackupSets", "PolicyName": "CommandLineToolTab", "EnableRead": true, "Id": "BS-10030", "DisplayName": "Command Line Tool Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "CommandLineToolSettings", "EnableRead": true, "Id": "BS-10031", "DisplayName": "Command Line Tool Settings", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "ReminderTab", "EnableRead": true, "Id": "BS-10032", "DisplayName": "Reminder Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "ReminderSettings", "EnableRead": true, "Id": "BS-10033", "DisplayName": "Reminder Settings", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "BandwidthControlTab", "EnableRead": true, "Id": "BS-10034", "DisplayName": "Bandwidth Control Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "BandwidthControlSettings", "EnableRead": true, "Id": "BS-10035", "DisplayName": "Bandwidth Control Settings", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "OthersTab", "EnableRead": true, "Id": "BS-10038", "DisplayName": "Others Tab" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "OthersSettingsTemporaryDirectory", "EnableRead": true, "Id": "BS-10039", "DisplayName": "Others Settings - Temporary Directory", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "OthersSettingsFollowLink", "EnableRead": true, "Id": "BS-10040", "DisplayName": "Others Settings - Follow Link", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "OthersSettingsVolumeShadowCopy", "EnableRead": true, </pre>	
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<pre> "Id": "BS-10041", "DisplayName": "Others Settings - Volume Shadow Copy", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "OthersSettingsFilePermissions", "EnableRead": true, "Id": "BS-10042", "DisplayName": "Others Settings - File Permissions", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "OthersSettingsArchivedLogDeletion", "EnableRead": true, "Id": "BS-10043", "DisplayName": "Others Settings - Archived Log Deletion", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "OthersSettingsCompressions", "EnableRead": true, "Id": "BS-10044", "DisplayName": "Others Settings - Compressions", "EnableWrite": true }, { "PrivilegeGroup": "BackupSets", "PolicyName": "OthersSettingsEncryption", "EnableRead": true, "Id": "BS-10045", "DisplayName": "Others Settings - Encryption" }, { "PrivilegeGroup": "BackupSets", "PolicyName": "OthersSettingsChangedBlockTracking", "EnableRead": true, "Id": "BS-10046", "DisplayName": "Others Settings - Changed Block Tracking", "EnableWrite": true }, { "PrivilegeGroup": "Settings", "PolicyName": "ProxyTab", "EnableRead": true, "Id": "S-10001", "DisplayName": "Proxy Tab" }, { "PrivilegeGroup": "Settings", "PolicyName": "ProxySettings", "EnableRead": true, "Id": "S-10002", "DisplayName": "Proxy Settings", "EnableWrite": true }, { "PrivilegeGroup": "Settings", "PolicyName": "WindowsEventLogTab", "EnableRead": true, "Id": "S-10005", "DisplayName": "Windows Event Log Tab" }, { "PrivilegeGroup": "Settings", "PolicyName": "WindowsEventLogSettings", "EnableRead": true, "Id": "S-10006", "DisplayName": "Windows Event Log Settings", </pre>	
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      "EnableWrite": true
    },
    {
      "PrivilegeGroup": "Utilities",
      "PolicyName": "DataIntegrityCheck",
      "EnableRead": true,
      "Id": "U-10001",
      "DisplayName": "Data Integrity Check"
    },
    {
      "PrivilegeGroup": "Utilities",
      "PolicyName": "SpaceFreeingUp",
      "EnableRead": true,
      "Id": "U-10002",
      "DisplayName": "Space Freeing Up"
    },
    {
      "PrivilegeGroup": "Utilities",
      "PolicyName": "DeleteBackupData",
      "EnableRead": true,
      "Id": "U-10003",
      "DisplayName": "Delete Backup Data"
    },
    {
      "PrivilegeGroup": "BackupSets",
      "PolicyName": "AddAndRemove",
      "EnableRead": true,
      "Id": "BS-10001",
      "DisplayName": "Add and Remove Backup Set"
    },
    {
      "PrivilegeGroup": "BackupSets",
      "PolicyName": "GeneralTab",
      "EnableRead": true,
      "Id": "BS-10002",
      "DisplayName": "General Tab"
    }
  ]
},
"ID": "1446023471399",
"BackupSetSettings": {
  "ExcludeFileSettings": {
    "LastModifiedPeriod": 10,
    "FileSize": 10737418240,
    "ExcludeMappedDrive": true,
    "ExcludeLastModified": true,
    "LastModifiedPeriodType": "YEAR",
    "LastModifiedType": "PERIOD",
    "Enable": false,
    "LastModifiedDate": -1,
    "ExcludeFileSize": true
  }
},
"DefaultValues": {
  "VmwareSettingsList": {
    "Enable": false,
    "List": []
  },
  "VolumeShadowCopySettingsList": {
    "Enable": false,
    "List": []
  },
  "AllowedIPSettingsList": {
    "Enable": false,
    "List": []
  },
  "FollowLinkSettingsList": {
    "Enable": false,
    "List": []
  },
  "InFileDeltaSettingsList": {

```


```

    "Enable": false,
    "List": []
  },
  "CompressionsSettingsList": {
    "Enable": false,
    "List": []
  },
  "WinUserAuthSettingsList": {
    "Enable": false,
    "List": []
  },
  "FileSettingsList": {
    "Enable": false,
    "List": []
  },
  "MswindowsSystemStateSettingsList": {
    "Enable": false,
    "List": []
  },
  "DestinationSettingsList": {
    "Enable": false,
    "List": []
  },
  "BandwidthControlSettingsList": {
    "Enable": false,
    "List": []
  },
  "NameSettingsList": {
    "Enable": false,
    "List": []
  },
  "RetentionPolicySettingsList": {
    "Enable": false,
    "List": []
  },
  "FilePermissionsSettingsList": {
    "Enable": false,
    "List": []
  },
  "MySQLSettingsList": {
    "Enable": false,
    "List": []
  },
  "ShadowProtectSettingsList": {
    "Enable": false,
    "List": []
  },
  "AdvancedSettingsList": {
    "Enable": false,
    "List": []
  },
  "CommandSettingsList": {
    "Enable": false,
    "List": []
  },
  "TemporaryDirectorySettingsList": {
    "Enable": false,
    "List": []
  },
  "OracleSettingsList": {
    "Enable": false,
    "List": []
  },
  "ReminderSettingsList": {
    "Enable": false,
    "List": []
  },
  "LotusNotesSettingsList": {
    "Enable": false,
    "List": []
  },
}

```

	<pre> "FilterSettingsList": { "Enable": false, "List": [] }, "MswindowsSystemSettingsList": { "Enable": false, "List": [] }, "LotusDominoSettingsList": { "Enable": false, "List": [] }, "ScheduleSettingsList": { "Enable": false, "List": [] }, "ArchivedLogDeletionSettingsList": { "Enable": false, "List": [] }, "EncryptionSettingsList": { "Enable": false, "List": [] }, "CdpSettingsList": { "Enable": false, "List": [] } } </pre>
--	--

Output
<pre> { "Status": "OK" } </pre>
Output - If v1 UpdatePolicyGroup parameter FileSettingsList was in the input
<pre> { "Status": "Error", "Message": "'FileSettingsList' is deprecated. It is only supported in UpdatePolicyGroup v1 API. Please use 'SourceShortcutSettingsList' instead" "ExptType": "java.lang.Exception" } </pre>
Output - If ClientID is empty from the input
<pre> { "Status": "Error", "Message": "ClientID cannot be empty in OneDrive4Biz of CustomDestinationList!" "ExptType": "java.lang.Exception" } </pre>
Output - If RedirectURI is empty from the input
<pre> { "Status": "Error", "Message": "RedirectURI cannot be empty in OneDrive4Biz of CustomDestinationList!" "ExptType": "java.lang.Exception" } </pre>
Output - If ChinaClientID is empty from the input
<pre> { "Status": "Error", "Message": "ChinaClientID cannot be empty in OneDrive4Biz of CustomDestinationList!" "ExptType": "java.lang.Exception" } </pre>
Output - If ChinaRedirectURI is empty from the input
<pre> { "Status": "Error", "Message": "ChinaRedirectURI cannot be empty in OneDrive4Biz of CustomDestinationList!" "ExptType": "java.lang.Exception" } </pre>



Note: The same error will also be displayed if the ClientID, RedirectURI, ChinaClientID, or ChinaRedirectURI is empty in the CloudSourceList

It is highly recommended for administrator to retrieve all policy settings with the v2 ListPolicyGroups API. Update the values of the settings to be changed, based on the response / parameters returned by the v2 ListPolicyGroups API.

3.3.10 AddPolicyGroup

This API let you add a new Policy Group and optionally allocate it to User Group(s).

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Policy Group]

URL:			
	https://BACKUP_SERVER/obs/api/json/AddPolicyGroup.do		
Available since version:			
	8.5.2.52		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	Name	String	Name of the Policy Group
	Owner	String	Input SubAdmin name if Policy to be assigned to a SubAdmin
	UserGroupIDList	Array of String	Array of User Group ID
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	PolicyGroupID	String	ID of the Policy Group
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "Name": "All Users", "Owner": "", "UserGroupIDList": ["1"] }		
	Output		
	{ "Status": "Error", "Message": "[Error] Parameter Name, All Users, already exists!", "ExptType": "com.ahsay.cbs.core.dbs.DbsException" }		

Example:	
	Input
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "Name": "Test1", "Owner": "Sub Admin", "UserGroupIDList": ["1", "1621406473331"] }</pre>
	Output
	<pre>{ "Status": "OK", "PolicyGroupID": "1621562348002" }</pre>

Example:	
	Input
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "Name": "Test2", "Owner": "", "UserGroupIDList": ["1", "3"] }</pre>
	Output
	<pre>{ "Status": "Error", "Message": "[Error] Parameter UserGroupID, 3 is not 13-digit format!", "ExptType": "com.ahsay.obs.core.dbs.DbsException" }</pre>

Example:	
	Input
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "Name": "Test4", "Owner": "", "UserGroupIDList": [0] }</pre>
	Output
	<pre>{ "Status": "Error", "Message": "JSONArray[0] not a string.", "ExptType": "org.json.JSONException" }</pre>

Example:	
	Input
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "Name": "Test6", "Owner": 0, "UserGroupIDList": ["1"] }</pre>
	Output
	<pre>{ "Status": "Error", "Message": "[Error] Parameter Owner '0' is not a valid owner.", "ExptType": "com.ahsay.obs.core.dbs.DbsException" }</pre>

3.3.11 AddPolicyGroupToUserGroup

This API let you assign Policy Group(s) to a User Group.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [User Group]

URL:			
	https://BACKUP_SERVER/obs/api/json/AddPolicyGroupToUserGroup.do		
Available since version:			
	8.5.2.52		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	UserGroupID	String	ID of User Group
	PolicyGroupIDList	Array of String	Array of Policy Group ID
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "UserGroupID": "1", "PolicyGroupIDList": ["1621478982811"] }		
	Output		
	{ "Status": "OK" }		

Example:	
	Input
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "UserGroupID": "1", "PolicyGroupIDList": ["1621490163834", "1621479367908"] }</pre>
	Output
	<pre>{ "Status": "OK" }</pre>

Example:	
	Input
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "UserGroupID": "1", "PolicyGroupIDList": ["2"] }</pre>
	Output
	<pre>{ "Status": "Error", "Message": "[Error] Parameter PolicyGroupIDList, 2, already exists in UserGroupID 1!", "ExptType": "com.ahsay.cbs.core.dbs.DbsException" }</pre>

Example:	
	Input
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "UserGroupID": "3", "PolicyGroupIDList": ["2"] }</pre>
	Output
	<pre>{ "Status": "Error", "Message": "[Error] Parameter UserGroupID, 3 is not 13-digit format!", "ExptType": "com.ahsay.obs.core.dbs.DbsException" }</pre>

Example:	
	Input
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "UserGroupID": "1111111111111", "PolicyGroupIDList": ["2"] }</pre>
	Output
	<pre>{ "Status": "Error", "Message": "[Error] Parameter UserGroupID, 1111111111111 does not exist!", "ExptType": "com.ahsay.obs.core.dbs.DbsException" }</pre>

4 User API

4.1 User

4.1.1 ListUsers (v1,v2)

This API can be used to retrieve users information, with various filter options. The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup User]

v1 ListUsers.do

URL:			
	https://BACKUP_SERVER/obs/api/json/ListUsers.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	Criteria	String	all paid trial suspended locked inactive A-B B-C ... and others
	searchBy	String	"Name"
	searchStr	String	Only users with login name that contains searchStr are listed
	reseller	String	Login name of a reseller. Only users under that reseller are listed.
	UserGroupID	String	ID of a user group. Only users under that user group are listed.
	PolicyGroupID	String	ID of a policy group. Only users under that policy group are listed.
	Date	String	Number of days. Only users that are registered within that number of days are listed.
	ClientType	String	OBM / ACB. Only that type of users is listed.
	LoginNameOnly	Boolean	If it is true, only login name of users are returned.
	ClientTypeOnly	Boolean	If it is true, only login name and client type of users are returned.
Return Values:			
	Key	Type	Descriptions
	Status	String	OK / Error
	User	Array of UserLoginName or Array of UserClientType or Array of User	If ClientTypeOnly is true, an array of UserClientType is returned. If LoginNameOnly is true, an array of UserLoginName is returned. Otherwise, an array of User is returned.
	Message	String	Error message, it exists only if status is Error
	ExptType	String	The type of exception. it exists only if status is Error

JSON Objects:

UserClientType		
Key	Type	Descriptions
ID	String	
LoginName	String	Client user name
Owner	String	
UserId	String	Unique for each user
ClientType	String	ACB / OBM
QuotaUsed	Integer	User quota used by the user
UserLoginName		
Key	Type	Descriptions
ID	String	
LoginName	String	Client user name
Owner	String	
UserId	String	
ClientType	String	ACB / OBM
QuotaUsed	Integer	User quota used by the user
User		
Key	Type	Descriptions
ID	String	
LoginName	String	Client user name
Owner	String	
UserId	String	
Alias	String	Display name
UserType	String	TRIAL / PAID. Default to TRIAL if not specified
ClientType	String	ACB / OBM
QuotaUsed	Integer	User quota used by the user
DestinationQuotaList	JSON object	
DestinationName	String	
DestinationKey	Long	
Quota	Integer	Unit in bytes
Online	Boolean	
Timezone	String	Refer to Apendix for timezone string / ID
Language	String	
DataFile	Long	Number of files in data area (Exclude local destination)
DataSize	Long	Compressed size of data area (Exclude local destination)
RetainFile	Long	Number of files in retention area (Exclude local destination)
RetainSize	Long	Compressed size of retention area (Exclude local destination)
MSWindowsSystemStateBackupEnabled	Boolean	
MSSQLBackupEnabled	Boolean	
MSExchangeBackupEnabled	Boolean	
MSExchangeDAGServerQuota	Long	
OracleBackupEnabled	Boolean	
LotusNotesBackupEnabled	Boolean	
LotusDominoBackupEnabled	Boolean	
MySQLBackupEnabled	Boolean	
InFileDeltaEnabled	Boolean	
ShadowCopyEnabled	Boolean	
MSExchangeMailboxBackupEnabled	Boolean	
MSExMailboxQuota	Long	
NasClientEnabled	Boolean	
QnapEnabled	Boolean	
DeltaMergeEnabled	Boolean	
MSHyperVBackupEnabled	Boolean	
MSHyperVVMQuota	Long	
MSHyperVVMQuotaType	String	GUESTVM / SOCKET
OpenDirectEnabled	Boolean	
OpenDirectQuota	Long	
VMwareBackupEnabled	Boolean	
VMwareVMQuota	Long	Number of Guest VM allowed
VMwareVMQuotaType	String	GUESTVM / SOCKET

	Bandwidth	Long	
	Notes	String	
	Status	String	SUSPENDED / ENABLE
	RegistrationDate	Long	
	SuspendPaidUser	Boolean	
	SuspendPaidUserDate	String	
	LastBackupDate	Long	
	CDPEnabled	Boolean	
	ShadowProtectBackupEnabled	Boolean	
	MSWindowsSystemBackupEnabled	Boolean	Add-on module of Windows system backup
	MobileEnabled	Boolean	
	MobileQuota	Long	
	Office365MailEnabled	Boolean	
	Office365MailQuota	Long	
	Hostname	String	
	LdapUser	String	
	LdapDeleteUser	Long	
	LdapDisableUser	Long	
	ExpiryDate	Long	
	LatestClientVersion	String	
	UserGroupIDList	Array	Array of user group ID.
	UserHome	String	
	Contact	Array	
	QuotaList	JSON object	Array of backup quota for backup destinations.
QuotaList			
	Key	Type	Descriptions
	Enabled	Boolean	
	DestinationName	String	Name of the visible destination
	DestinationKey	String	ID of the predefined destination, or OBS for quota on AhsayCBS
	Quota	Integer	Unit in bytes
UserGroup			
	Key	Type	Descriptions
	UserGroupID	String	
	UserGroupName	String	
	ShowLink	Boolean	
Contact			
	Key	Type	Descriptions
	Name	String	
	Email	String	Example: <i>name@domain.com</i>

Example 1:

Input

```
{  "SysUser": "api_user",  "SysPwd": "abc123$%",  "searchStr": "username"}
```

Output

```
{  "User": [    {      "DataFile": 422,      "LoginName": "username",      "Online": false,      "RetainSize": 928,      "VMwareQuotaType": "GUESTVM",      "LatestClientVersion": "7.15.2.2",      "LastBackupDate": 1521623413585,      "EnableOffice365Mail": true,      "EnableLotusNotes": true,
```

```

"Timezone": "1098",
"ID": "1515980405697",
"UserHome": "C:\\Program Files\\AhsayOBS and AhsayRPS\\user\\username",
"ExchangeMailboxQuota": 10,
"EnableMsWinSysState": true,
"EnableLotusDomino": true,
"Bandwidth": 0,
"UserType": "PAID",
"Office365MailQuota": 10,
"SuspendPaidUser": false,
"EnableOpenDirect": true,
"SuspendPaidUserData": "20180115",
"EnableNASClient": false,
"EnableQnap": false,
"Notes": "",
"ExpiryDate": -99,
"QuotaUsed": 5,
"EnableShadowCopy": true, "RegistrationDate": 1515980405697,
"EnableMySQL": true,
"DestinationQuotaList": [
  {
    "Enabled": true,
    "Quota": 53687091200,
    "DestinationKey": "OBS"},
  {
    "Enabled": false,
    "Quota": -1,
    "DestinationName": "AhsayCBS",
    "DestinationKey": "-1518496023533"},
  {
    "Enabled": true,
    "Quota": 53687091200,
    "DestinationName": "Predefine 1",
    "DestinationKey": "-1526366187317"}
],
"LdapDisableUser": -1,
"DataSize": 29027677,
"ClientType": "OBM",
"MsVmQuotaType": "GUESTVM",
"LdapDeleteUser": -1,
"EnableVMware": true,
"EnableShadowProtectBareMetal": true,
"MsVmQuota": 10,
"EnableMsVm": true,
"EnableMSSQL": true,
"LdapUser": false,
"Hostname": "",
"EnableInFileDelta": true,
"EnableExchangeMailbox": true,
"EnableCDP": true,
"Owner": "",
"EnableOracle": true,
"MobileQuota": 0,
"Contact": [],
"UserGroupIDList": [],
"UserId": "username",
"OpenDirectQuota": 10,
"EnableWinServer2008BareMetal": true,
"Status": "ENABLE",
"Alias": "",
"VMwareQuota": 10,
"RetainFile": 5,
"Language": "en",
"EnableMobile": false,
"EnableMSExchange": true
}
},
"Status": "OK"
}

```

Example 2:

Input

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%"
}
```

Output

```
{
  "User": [
    {
      "DataFile": 0,
      "LoginName": "Testscipt",
      "Online": false,
      "RetainSize": 0,
      "VMwareQuotaType": "GUESTVM",
      "LatestClientVersion": "",
      "LastBackupDate": -1,
      "EnableOffice365Mail": false,
      "Quota": 100,
      "EnableLotusNotes": false,
      "Timezone": "",
      "ID": "1497521191178",
      "UserHome": "/usr/local/cbs_7_12.4/user/Testscipt",
      "ExchangeMailboxQuota": 0,
      "EnableMsWinSysState": false,
      "EnableLotusDomino": true,
      "Bandwidth": 0,
      "UserType": "TRIAL",
      "Office365MailQuota": 0,
      "SuspendPaidUser": true,
      "EnableOpenDirect": false,
      "SuspendPaidUserDate": "20170715",
      "EnableNASClient": false,
      "Notes": "",
      "ExpiryDate": 29,
      "QuotaUsed": 1,
      "EnableShadowCopy": false,
      "RegistrationDate": 1497521191178,
      "EnableMySQL": false,
      "LdapDisableUser": 0,
      "DataSize": 0,
      "ClientType": "OBM",
      "MsVmQuotaType": "GUESTVM",
      "LdapDeleteUser": 0,
      "EnableVMware": false,
      "EnableShadowProtectBareMetal": false,
      "MsVmQuota": 0,
      "EnableMsVm": false,
      "EnableMSSQL": true,
      "LdapUser": false,
      "Hostname": "",
      "EnableInFileDelta": false,
      "EnableExchangeMailbox": false,
      "EnableCDP": false,
      "Owner": "",
      "EnableOracle": true,
      "MobileQuota": 0,
      "Contact": [
        {
          "Name": "",
          "Email": "ahsaytest123@example.com"
        }
      ],
      "UserGroupIDList": [],
      "UserId": "Testscipt",
      "OpenDirectQuota": 0,
      "EnableWinServer2008BareMetal": false,
    }
  ]
}
```

```

"Status": "ENABLE",
"Alias": "",
"VMwareQuota": 0,
"RetainFile": 0,
"Language": "",
"EnableMobile": false,
"EnableMSExchange": true
},
{
  "DataFile": 0,
  "LoginName": "test1",
  "Online": false,
  "RetainSize": 0,
  "VMwareQuotaType": "GUESTVM",
  "LatestClientVersion": "",
  "LastBackupDate": -1,
  "EnableOffice365Mail": false,
  "Quota": 34520,
  "EnableLotusNotes": false,
  "Timezone": "",
  "ID": "1497521191492",
  "UserHome": "/usr/local/cbs_7_12.4/user/test1",
  "ExchangeMailboxQuota": 452,
  "EnableMsWinSysState": false,
  "EnableLotusDomino": false,
  "Bandwidth": 0,
  "UserType": "PAID",
  "Office365MailQuota": 0,
  "SuspendPaidUser": false,
  "EnableOpenDirect": true,
  "SuspendPaidUserData": "19700101",
  "EnableNASClient": false,
  "Notes": "",
  "ExpiryDate": 29,
  "QuotaUsed": 1,
  "EnableShadowCopy": false,
  "RegistrationDate": 1497521191492,
  "EnableMySQL": false,
  "LdapDisableUser": 0,
  "DataSize": 0,
  "ClientType": "OBM",
  "MsVmQuotaType": "GUESTVM",
  "LdapDeleteUser": 0,
  "EnableVMware": false,
  "EnableShadowProtectBareMetal": false,
  "MsVmQuota": 0,
  "EnableMsVm": false,
  "EnableMSSQL": false,
  "LdapUser": false,
  "Hostname": "",
  "EnableInFileDelta": false,
  "EnableExchangeMailbox": true,
  "EnableCDP": false,
  "Owner": "",
  "EnableOracle": false,
  "MobileQuota": 0,
  "Contact": [
    {
      "Name": "",
      "Email": "ahsaytest123@example.com"
    }
  ],
  "UserGroupIDList": [],
  "UserId": "test1",
  "OpenDirectQuota": 3,
  "EnableWinServer2008BareMetal": false,
  "Status": "ENABLE",
  "Alias": "",
  "VMwareQuota": 0,
  "RetainFile": 0,
  "Language": "",

```

```

"EnableMobile": false,
"EnableMSExchange": false
},
{
  "DataFile": 0,
  "LoginName": "test6",
  "Online": false,
  "RetainSize": 0,
  "VMwareQuotaType": "GUESTVM",
  "LatestClientVersion": "",
  "LastBackupDate": -1,
  "EnableOffice365Mail": false,
  "Quota": 42410,
  "EnableLotusNotes": true,
  "Timezone": "",
  "ID": "1497521191766",
  "UserHome": "/usr/local/cbs_7_12.4/user/test6",
  "ExchangeMailboxQuota": 223,
  "EnableMsWinSysState": false,
  "EnableLotusDomino": false,
  "Bandwidth": 0,
  "UserType": "PAID",
  "Office365MailQuota": 0,
  "SuspendPaidUser": false,
  "EnableOpenDirect": false,
  "SuspendPaidUserData": "19700101",
  "EnableNASClient": false,
  "Notes": "",
  "ExpiryDate": 29,
  "QuotaUsed": 1,
  "EnableShadowCopy": false,
  "RegistrationDate": 1497521191766,
  "EnableMySQL": false,
  "LdapDisableUser": 0,
  "DataSize": 0,
  "ClientType": "OBM",
  "MsVmQuotaType": "GUESTVM",
  "LdapDeleteUser": 0,
  "EnableVMware": false,
  "EnableShadowProtectBareMetal": false,
  "MsVmQuota": 0,
  "EnableMsVm": false,
  "EnableMSSQL": false,
  "LdapUser": false,
  "Hostname": "",
  "EnableInFileDelta": false,
  "EnableExchangeMailbox": true,
  "EnableCDP": false,
  "Owner": "",
  "EnableOracle": false,
  "MobileQuota": 0,
  "Contact": [
    {
      "Name": "",
      "Email": "ahsaytest123@example.com"
    }
  ],
  "UserGroupIDList": [],
  "UserId": "test6",
  "OpenDirectQuota": 0,
  "EnableWinServer2008BareMetal": false,
  "Status": "SUSPENDED",
  "Alias": "",
  "VMwareQuota": 0,
  "RetainFile": 0,
  "Language": "",
  "EnableMobile": false,
  "EnableMSExchange": false
},
{
  "DataFile": 0,

```

```

"LoginName": "test7",
"Online": false,
"RetainSize": 0,
"VMwareQuotaType": "GUESTVM",
"LatestClientVersion": "",
"LastBackupDate": -1,
"EnableOffice365Mail": false,
"Quota": 1344,
"EnableLotusNotes": false,
"Timezone": "",
"ID": "1497521191795",
"UserHome": "/usr/local/cbs_7_12.4/user/test7",
"ExchangeMailboxQuota": 0,
"EnableMsWinSysState": false,
"EnableLotusDomino": false,
"Bandwidth": 0,
"UserType": "PAID",
"Office365MailQuota": 0,
"SuspendPaidUser": false,
"EnableOpenDirect": false,
"SuspendPaidUserData": "19700101",
"EnableNASClient": false,
"Notes": "",
"ExpiryDate": 29,
"QuotaUsed": 1,
"EnableShadowCopy": false,
"RegistrationDate": 1497521191795,
"EnableMySQL": false,
"LdapDisableUser": 0,
"DataSize": 0,
"ClientType": "OBM",
"MsVmQuotaType": "GUESTVM",
"LdapDeleteUser": 0,
"EnableVMware": false,
"EnableShadowProtectBareMetal": false,
"MsVmQuota": 0,
"EnableMsVm": false,
"EnableMSSQL": false,
"LdapUser": false,
"Hostname": "",
"EnableInFileDelta": false,
"EnableExchangeMailbox": false,
"EnableCDP": false,
"Owner": "",
"EnableOracle": false,
"MobileQuota": 0,
"Contact": [
  {
    "Name": "",
    "Email": "ahsaytest123@example.com"
  }
],
"UserGroupIDList": [],
"UserId": "test7",
"OpenDirectQuota": 0,
"EnableWinServer2008BareMetal": false,
"Status": "SUSPENDED",
"Alias": "",
"VMwareQuota": 0,
"RetainFile": 0,
"Language": "",
"EnableMobile": false,
"EnableMSExchange": false
},
{
  "DataFile": 0,
  "LoginName": "test4",
  "Online": false,
  "RetainSize": 0,
  "VMwareQuotaType": "GUESTVM",
  "LatestClientVersion": "",

```



```

"LastBackupDate": -1,
"EnableOffice365Mail": false,
"Quota": 34530,
"EnableLotusNotes": true,
"Timezone": "",
"ID": "1497521191676",
"UserHome": "/usr/local/cbs_7_12.4/user/test4",
"ExchangeMailboxQuota": 0,
"EnableMsWinSysState": false,
"EnableLotusDomino": false,
"Bandwidth": 0,
"UserType": "PAID",
"Office365MailQuota": 0,
"SuspendPaidUser": false,
"EnableOpenDirect": true,
"SuspendPaidUserData": "19700101",
"EnableNASClient": false,
"Notes": "",
"ExpiryDate": 29,
"QuotaUsed": 1,
"EnableShadowCopy": false,
"RegistrationDate": 1497521191676,
"EnableMySQL": false,
"LdapDisableUser": 0,
"DataSize": 0,
"ClientType": "OBM",
"MsVmQuotaType": "GUESTVM",
"LdapDeleteUser": 0,
"EnableVMware": false,
"EnableShadowProtectBareMetal": false,
"MsVmQuota": 0,
"EnableMsVm": false,
"EnableMSSQL": true,
"LdapUser": false,
"Hostname": "",
"EnableInFileDelta": false,
"EnableExchangeMailbox": false,
"EnableCDP": false,
"Owner": "",
"EnableOracle": true,
"MobileQuota": 234,
"Contact": [
  {
    "Name": "",
    "Email": "ahsaytest123@example.com"
  }
],
"UserGroupIDList": [],
"UserId": "test4",
"OpenDirectQuota": 6,
"EnableWinServer2008BareMetal": false,
"Status": "ENABLE",
"Alias": "",
"VMwareQuota": 0,
"RetainFile": 0,
"Language": "",
"EnableMobile": true,
"EnableMSExchange": true
},
{
  "DataFile": 0,
  "LoginName": "test5",
  "Online": false,
  "RetainSize": 0,
  "VMwareQuotaType": "GUESTVM",
  "LatestClientVersion": "",
  "LastBackupDate": -1,
  "EnableOffice365Mail": false,
  "Quota": 45420,
  "EnableLotusNotes": true,
  "Timezone": "",

```

```

"ID": "1497521191735",
"UserHome": "/usr/local/cbs_7_12.4/user/test5",
"ExchangeMailboxQuota": 0,
"EnableMsWinSysState": false,
"EnableLotusDomino": false,
"Bandwidth": 0,
"UserType": "PAID",
"Office365MailQuota": 0,
"SuspendPaidUser": false,
"EnableOpenDirect": true,
"SuspendPaidUserData": "19700101",
"EnableNASClient": false,
"Notes": "",
"ExpiryDate": 29,
"QuotaUsed": 1,
"EnableShadowCopy": false,
"RegistrationDate": 1497521191735,
"EnableMySQL": false,
"LdapDisableUser": 0,
"DataSize": 0,
"ClientType": "OBM",
"MsVmQuotaType": "GUESTVM",
"LdapDeleteUser": 0,
"EnableVMware": false,
"EnableShadowProtectBareMetal": false,
"MsVmQuota": 0,
"EnableMsVm": false,
"EnableMSSQL": false,
"LdapUser": false,
"Hostname": "",
"EnableInFileDelta": false,
"EnableExchangeMailbox": false,
"EnableCDP": false,
"Owner": "",
"EnableOracle": false,
"MobileQuota": 0,
"Contact": [
  {
    "Name": "",
    "Email": "ahsaytest123@example.com"
  }
],
"UserGroupIDList": [],
"UserId": "test5",
"OpenDirectQuota": 7,
"EnableWinServer2008BareMetal": false,
"Status": "ENABLE",
"Alias": "",
"VMwareQuota": 0,
"RetainFile": 0,
"Language": "",
"EnableMobile": false,
"EnableMSExchange": false
},
{
  "DataFile": 0,
  "LoginName": "test2",
  "Online": false,
  "RetainSize": 0,
  "VMwareQuotaType": "GUESTVM",
  "LatestClientVersion": "",
  "LastBackupDate": -1,
  "EnableOffice365Mail": false,
  "Quota": 34530,
  "EnableLotusNotes": false,
  "Timezone": "",
  "ID": "1497521191523",
  "UserHome": "/usr/local/cbs_7_12.4/user/test2",
  "ExchangeMailboxQuota": 0,
  "EnableMsWinSysState": false,
  "EnableLotusDomino": false,

```

```

"Bandwidth": 0,
"UserType": "PAID",
"Office365MailQuota": 0,
"SuspendPaidUser": false,
"EnableOpenDirect": true,
"SuspendPaidUserData": "19700101",
"EnableNASClient": false,
"Notes": "",
"ExpiryDate": 29,
"QuotaUsed": 1,
"EnableShadowCopy": false,
"RegistrationDate": 1497521191524,
"EnableMySQL": false,
"LdapDisableUser": 0,
"DataSize": 0,
"ClientType": "OBM",
"MsVmQuotaType": "GUESTVM",
"LdapDeleteUser": 0,
"EnableVMware": false,
"EnableShadowProtectBareMetal": false,
"MsVmQuota": 0,
"EnableMsVm": false,
"EnableMSSQL": false,
"LdapUser": false,
"Hostname": "",
"EnableInFileDelta": false,
"EnableExchangeMailbox": false,
"EnableCDP": false,
"Owner": "",
"EnableOracle": false,
"MobileQuota": 0,
"Contact": [
  {
    "Name": "",
    "Email": "ahsaytest123@example.com"
  }
],
"UserGroupIDList": [],
"UserId": "test2",
"OpenDirectQuota": 4,
"EnableWinServer2008BareMetal": false,
"Status": "ENABLE",
"Alias": "",
"VMwareQuota": 0,
"RetainFile": 0,
"Language": "",
"EnableMobile": false,
"EnableMSEExchange": false
},
{
  "DataFile": 0,
  "LoginName": "test3",
  "Online": false,
  "RetainSize": 0,
  "VMwareQuotaType": "GUESTVM",
  "LatestClientVersion": "",
  "LastBackupDate": -1,
  "EnableOffice365Mail": false,
  "Quota": 33450,
  "EnableLotusNotes": true,
  "Timezone": "",
  "ID": "1497521191612",
  "UserHome": "/usr/local/cbs_7_12.4/user/test3",
  "ExchangeMailboxQuota": 0,
  "EnableMsWinSysState": false,
  "EnableLotusDomino": false,
  "Bandwidth": 0,
  "UserType": "TRIAL",
  "Office365MailQuota": 0,
  "SuspendPaidUser": true,
  "EnableOpenDirect": true,

```

```

"SuspendPaidUserDate": "20170715",
"EnableNASClient": true,
"Notes": "",
"ExpiryDate": 29,
"QuotaUsed": 1,
"EnableShadowCopy": true,
"RegistrationDate": 1497521191612,
"EnableMySQL": true,
"LdapDisableUser": 0,
"DataSize": 0,
"ClientType": "OBM",
"MsVmQuotaType": "GUESTVM",
"LdapDeleteUser": 0,
"EnableVMware": false,
"EnableShadowProtectBareMetal": false,
"MsVmQuota": 0,
"EnableMsVm": false,
"EnableMSSQL": false,
"LdapUser": false,
"Hostname": "",
"EnableInFileDelta": true,
"EnableExchangeMailbox": false,
"EnableCDP": false,
"Owner": "",
"EnableOracle": false,
"MobileQuota": 0,
"Contact": [
  {
    "Name": "",
    "Email": "ahsaytest123@example.com"
  }
],
"UserGroupIDList": [],
"UserId": "test3",
"OpenDirectQuota": 5,
"EnableWinServer2008BareMetal": false,
"Status": "ENABLE",
"Alias": "",
"VMwareQuota": 0,
"RetainFile": 0,
"Language": "",
"EnableMobile": false,
"EnableMSEExchange": false
},
{
  "DataFile": 0,
  "LoginName": "Testscip123",
  "Online": false,
  "RetainSize": 0,
  "VMwareQuotaType": "GUESTVM",
  "LatestClientVersion": "",
  "LastBackupDate": -1,
  "EnableOffice365Mail": false,
  "Quota": 134500,
  "EnableLotusNotes": false,
  "Timezone": "",
  "ID": "1497521191326",
  "UserHome": "/usr/local/cbs_7_12.4/user/Testscip123",
  "ExchangeMailboxQuota": 0,
  "EnableMsWinSysState": false,
  "EnableLotusDomino": false,
  "Bandwidth": 0,
  "UserType": "PAID",
  "Office365MailQuota": 0,
  "SuspendPaidUser": false,
  "EnableOpenDirect": true,
  "SuspendPaidUserDate": "19700101",
  "EnableNASClient": false,
  "Notes": "",
  "ExpiryDate": 29,
  "QuotaUsed": 1,

```

```

"EnableShadowCopy": false,
"RegistrationDate": 1497521191326,
"EnableMySQL": false,
"LdapDisableUser": 0,
"DataSize": 0,
"ClientType": "OBM",
"MsVmQuotaType": "GUESTVM",
"LdapDeleteUser": 0,
"EnableVMware": false,
"EnableShadowProtectBareMetal": false,
"MsVmQuota": 123,
"EnableMsVm": true,
"EnableMSSQL": false,
"LdapUser": false,
"Hostname": "",
"EnableInFileDelta": false,
"EnableExchangeMailbox": false,
"EnableCDP": false,
"Owner": "",
"EnableOracle": false,
"MobileQuota": 0,
"Contact": [
  {
    "Name": "",
    "Email": "ahsaytest123@example.com"
  }
],
"UserGroupIDList": [],
"UserId": "Testscip123",
"OpenDirectQuota": 21,
"EnableWinServer2008BareMetal": false,
"Status": "SUSPENDED",
"Alias": "",
"VMwareQuota": 0,
"RetainFile": 0,
"Language": "",
"EnableMobile": false,
"EnableMSExchange": false
},
{
  "DataFile": 23,
  "LoginName": "opendirect",
  "Online": false,
  "RetainSize": 0,
  "VMwareQuotaType": "GUESTVM",
  "LatestClientVersion": "7.12.4.0",
  "LastBackupDate": 1497596415069,
  "EnableOffice365Mail": false,
  "Quota": 1073741824,
  "EnableLotusNotes": false,
  "Timezone": "1097",
  "ID": "1497578979898",
  "UserHome": "/usr/local/cbs_7_12.4/user/opendirect",
  "ExchangeMailboxQuota": 0,
  "EnableMsWinSysState": false,
  "EnableLotusDomino": false,
  "Bandwidth": 0,
  "UserType": "TRIAL",
  "Office365MailQuota": 0,
  "SuspendPaidUser": true,
  "EnableOpenDirect": true,
  "SuspendPaidUserDate": "20170716",
  "EnableNASClient": false,
  "Notes": "",
  "ExpiryDate": 30,
  "QuotaUsed": 1,
  "EnableShadowCopy": false,
  "RegistrationDate": 1497578979897,
  "EnableMySQL": false,
  "LdapDisableUser": -1,
  "DataSize": 55920393,

```

```

"ClientType": "OBM",
"MsVmQuotaType": "GUESTVM",
"LdapDeleteUser": -1,
"EnableVMware": false,
"EnableShadowProtectBareMetal": false,
"MsVmQuota": 0,
"EnableMsVm": false,
"EnableMSSQL": false,
"LdapUser": false,
"Hostname": "",
"EnableInFileDelta": false,
"EnableExchangeMailbox": false,
"EnableCDP": false,
"Owner": "",
"EnableOracle": false,
"MobileQuota": 0,
"Contact": [],
"UserGroupIDList": [],
"UserId": "opendirect",
"OpenDirectQuota": 1,
"EnableWinServer2008BareMetal": false,
"Status": "ENABLE",
"Alias": "",
"VMwareQuota": 0,
"RetainFile": 0,
"Language": "en",
"EnableMobile": false,
"EnableMSExchange": false
}
},
"Status": "OK"
}

```

v2 ListUsers.do

To facilitate the Quota Management feature, a new version of the ListUsers.do API (v2 ListUsers.do) was introduced.

A new **QuotaList** JSON object (list of quota for multiple backup destinations) was introduced to replace the single **Quota** parameter.

While AhsayCBS version 8.1 or above is backward compatible with API calls in previous format (pre-7.15.6.0 API format), it is highly recommended to use the new version of the API instead (e.g. v2 ListUsers.do).

URL:			
	https://BACKUP_SERVER/obs/api/json/2/ListUsers.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	Criteria	String	all paid trial suspended locked inactive A-B B-C ... and others
	searchBy	String	"Name"
	searchStr	String	Only users with login name that contains searchStr are listed
	reseller	String	Login name of a reseller. Only users under that reseller are listed.
	UserGroupID	String	ID of a user group. Only users under that user group are listed.
	PolicyGroupID	String	ID of a policy group. Only users under that policy group are listed.
	Date	String	Number of days. Only users that are registered within that number of days are listed.
	ClientType	String	OBM / ACB. Only that type of users is listed.
	LoginNameOnly	Boolean	If it is true, only login name of users are returned.
	ClientTypeOnly	Boolean	If it is true, only login name and client type of users are returned.
Return Values:			
	Key	Type	Descriptions
	Status	String	OK / Error
	User	Array	If ClientTypeOnly is true, an array of UserClientType is returned. If LoginNameOnly is true, an array of UserLoginName is returned. Otherwise, an array of User is returned.
	Message	String	Error message, it exists only if status is Error
	ExptType	String	The type of exception, it exists only if status is Error
JSON Objects:			
	UserClientType		
	Key	Type	Descriptions
	ID	String	
	LoginName	String	Client user name
	Owner	String	

	UserId	String	Unique for each user
	ClientType	String	ACB / OBM
	QuotaUsed	Integer	User quota used by the user
UserLoginName			
	Key	Type	Descriptions
	ID	String	
	LoginName	String	Client user name
	Owner	String	
	UserId	String	
	ClientType	String	ACB / OBM
	QuotaUsed	Integer	User quota used by the user
User			
	Key	Type	Descriptions
	ID	String	
	LoginName	String	Client user name
	Owner	String	
	UserId	String	
	Alias	String	Display name
	UserType	String	TRIAL / PAID. Default to TRIAL if not specified
	ClientType	String	ACB / OBM
	QuotaUsed	Integer	User quota used by the user
	DestinationQuotaList	Array	
	DestinationName	String	
	DestinationKey	Long	
	Online	Boolean	
	Timezone	String	Refer to Appendix for timezone string / ID
	Language	String	
	DataFile	Long	Number of files in data area (Exclude local destination)
	DataSize	Long	Compressed size of data area (Exclude local destination)
	RetainFile	Long	Number of files in retention area (Exclude local destination)
	RetainSize	Long	Compressed size of retention area (Exclude local destination)
	EnableMSSQL	Boolean	
	EnableMSEExchange	Boolean	
	MsExchangeQuota	Long	
	EnableMsWinSysState	Boolean	
	EnableOracle	Boolean	
	EnableLotusNotes	Boolean	
	EnableLotusDomino	Boolean	
	EnableMySQL	Boolean	
	EnableInFileDelta	Boolean	
	EnableShadowCopy	Boolean	
	EnableExchangeMailbox	Boolean	
	ExchangeMailboxQuota	Long	
	EnableNASClient	Boolean	
	EnableQnap	Boolean	
	EnableDeltaMerge	Boolean	
	EnableMsVm	Boolean	
	EnableOpenDirect	Boolean	
	OpenDirectQuota	Long	
	MsVmQuota	Long	
	EnableVMware	Boolean	
	VMwareQuota	Long	Number of Guest VM allowed
	Bandwidth	Long	
	Notes	String	
	Status	String	SUSPENDED / ENABLE
	RegistrationDate	Long	
	SuspendPaidUser	Boolean	
	SuspendPaidUserDate	String	
	LastBackupDate	Long	
	EnableCDP	Boolean	
	EnableShadowProtectBareMetal	Boolean	
	EnableWinServer2008BareMetal	Boolean	Add-on module of Windows system backup
	MsVmQuotaType	String	GUESTVM / SOCKET
	VMwareQuotaType	String	GUESTVM / SOCKET
	EnableMobile	Boolean	

	MobileQuota	Long	
	EnableOffice365Mail	Boolean	
	Office365MailQuota	Long	
	Hostname	String	
	LdapUser	String	
	LdapDeleteUser	Long	
	LdapDisableUser	Long	
	ExpiryDate	Long	
	LatestClientVersion	String	
	UserGroupIDList	Array	Array of user group ID
	UserHome	String	
	Contact	Array	
	QuotaList	Array	Array of backup quota for backup destination.
	QuotaList		
	Key	Type	Descriptions
	Enabled	Boolean	
	DestinationName	String	Name of the backup destination
	DestinationKey	String	ID of the backup destination, or OBS for quota on AhsayCBS
	Quota	Integer	Unit in bytes
	UserGroup		
	Key	Type	Descriptions
	UserGroupID	String	
	UserGroupName	String	
	ShowLink	Boolean	
	Contact		
	Key	Type	Descriptions
	Name	String	
	Email	String	Example: <i>name@domain.com</i>

Example:

Input

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%",
  "searchStr": "username"
}
```

Output

```
{
  "User": [
    {
      "DataFile": 422,
      "LoginName": "username",
      "Online": false,
      "RetainSize": 928,
      "VMwareQuotaType": "GUESTVM",
      "LatestClientVersion": "7.15.2.2",
      "LastBackupDate": 1521623413585,
      "EnableOffice365Mail": true,
      "EnableLotusNotes": true,
      "Timezone": "1098",
      "ID": "1515980405697",
      "UserHome": "C:\\Program Files\\AhsayOBS and AhsayRPS\\user\\username",
      "ExchangeMailboxQuota": 10,
      "EnableMsWinSysState": true,
      "EnableLotusDomino": true,
      "Bandwidth": 0,
      "UserType": "PAID",
      "Office365MailQuota": 10,
      "SuspendPaidUser": false,
      "EnableOpenDirect": true,
      "SuspendPaidUserDate": "20180115",
      "EnableNASClient": false,
      "Notes": "",
      "ExpiryDate": -99
    }
  ]
}
```

```

"QuotaUsed":5,
"EnableShadowCopy":true,
"RegistrationDate":1515980405697,
"EnableMySQL":true,
"QuotaList":[{
  "Enabled": true,
  "Quota": 10737418240,
  "DestinationName": "AhsayCBS - Predefined",
  "DestinationKey": "-1527764681764"
},
{
  "Enabled": true,
  "Quota": 53687091200,
  "DestinationName": "AhsayCBS",
  "DestinationKey": "OBS"
}
],
"LdapDisableUser":-1,
"DataSize":29027677,
"ClientType":"OBM",
"MsVmQuotaType":"GUESTVM",
"LdapDeleteUser":-1,
"EnableVMware":true,
"EnableShadowProtectBareMetal":true,
"MsVmQuota":10,
"EnableMsVm":true,
"EnableMSSQL":true,
"LdapUser":false,
"Hostname": "",
"EnableInFileDelta":true,
"EnableExchangeMailbox":true,
"EnableCDP":true,
"Owner": "",
"EnableOracle":true,
"MobileQuota":0,
"Contact":[],
"UserGroupIDList":[],
"UserId":"username",
"OpenDirectQuota":10,
"EnableWinServer2008BareMetal":true,
"Status":"ENABLE",
"Alias": "",
"VMwareQuota":10,
"RetainFile":5,
"Language":"en",
"EnableMobile":false,
"EnableMSExchange":true
}
],
"Status": "OK"
}

```

4.1.2 AuthUser

This API checks whether a user exists or not.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup User]

URL:			
	https://BACKUP_SERVER/obs/api/json/AuthUser.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	Owner	String	
	Password		
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
Input User found			
<pre>{ "SysUser": "api", "SysPwd": "pwd", "LoginName": "user" "Password": "userpwd" }</pre>			
Output			
<pre>{"Status": "OK"}</pre>			
\			
Example:			
Input User does not exist			
<pre>{ "SysUser": "api", "SysPwd": "pwd", "LoginName": "dummyuser" "Password": "dummypwd" }</pre>			
Output			
<pre>{ "Status": "Error", "Message": "[UserCacheManager.NoSuchUserExpt] User 'dummyuser' not found.", "ExptType": "com.ahsay.obs.core.dbs.Y" }</pre>			

4.1.3 RunSingleUserRebuild

This API rebuilds a particular v6 legacy backupset of a user.

The related settings can be found on the AhsayCBS web console:

- 🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup User] > Choose a user
- > [Backup Set] > Choose a v6 backup set > [Destination] > [Standard Destination] > Rebuild

URL:			
	https://BACKUP_SERVER/obs/api/json/RunSingleUserRebuild.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	User name
	Owner	String	
	BackupSetID	String	ID of the backupset. Obtainable in GetBackupset API.
	CheckCrc	Boolean	Cyclic redundancy check
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	RebuildStatus		
	Key	Type	Descriptions
	LoginName	String	Client user name
	BackupSetID	String	
	Status	String	
	StartTime	Long	
	EndTime	Long	
Example:			
Input			
{ "SysUser": "api", "SysPwd": "pwd", "LoginName": "user", "BackupSetID": "497320488529", }			
Output			
{ "Status": "OK" }			
Output 2 Backupset not exist			
{ "Status": "Error", "Message": "Backup Set for ID="497320488529"not found", "ExptType": "com.ahsay.obs.core.dbs.c" }			

4.1.4 GetSingleUserRebuildStatus

This API allows you to get the information of the recent v6 legacy backupset rebuild.

The related settings can be found on the AhsayCBS web console:

🔗 [Monitoring] > [Administration Logs] > [Audit Trails]

URL:			
	https://BACKUP_SERVER/obs/api/json/GetSingleUserRebuildStatus.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	AhsayCBA's system users password with admin role
	LoginName	String	User name
	Owner	String	
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	JSON Object RebuildStatus	
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	RebuildStatus		
	Key	Type	Descriptions
	LoginName	String	Client user name
	BackupSetID	String	
	Status	String	
	StartTime	Long	
	EndTime	Long	
Example:			
Input			
{ "SysUser": "api", "SysPwd": "pwd", "LoginName": "user" }			
Output			
{ "Status": "OK", "Data": { "Status": "Finished", "LoginName": "opendirect", "EndTime": 1497320785971, "StartTime": 1497320785835, "BackupSetID": "ALL" } }			
Output 2 Not yet started			
{ "Status": "OK", "Data": { "Status": "Not yet started", "LoginName": "opendirect",			

```
"EndTime": -1,  
"StartTime": -1,  
"BackupSetID": ""
```

```
}  
}
```

4.1.5 GetUserStorageStat

This API allows you to get the file statistic of a backup set of a user.

The related settings can be found on the AhsayCBS web console:

 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Statistics]

URL:			
	https://BACKUP_SERVER/obs/api/json/GetUserStorageStat.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Backup user name
	Owner	String	
	YearMonth	String	In "yyyy-MM" format. For example, to get the storage statistics of January 2017, the parameter is "2017-01"
	BackupSetID	String	"all" to get statistics of all backup sets, or the backup set ID of the backup set
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	Array of AverageStat	
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	AverageStat		
	Key	Type	Descriptions
	YearMonth	String	yyyy-MM
	AvgDataSize	String	Average data size in k / M / G format of all backup sets
	AvgDataRawSize	String	Average data size in raw byte format of all backup sets
	AvgDataNo	String	
	AvgRetainSize	String	Average retained data size in k / M / G format of all backup sets
	AvgRetainRawSize	String	Average retained data size in raw byte format of all backup sets
	AvgRetainNo	String	
	AvgUploadSize	String	Average uploaded data size in k / M / G format of all backup sets
	AvgUploadRawSize	String	Average uploaded data size in raw byte format of all backup sets
	AvgUploadNo	String	
	AvgTotalStorageSize	String	Average total storage size in k / M / G format of all backup sets
	AvgTotalStorageRawSize	String	Average total storage size in raw byte format of all backup sets
	AvgTotalStorageNo	String	
	Storage	Array of DetailStat	
	DetailStat		
	Key	Type	Descriptions
	Date	String	yyyy-MM-dd
	DataSize	String	Data size in k / M / G format
	DataRawSize	String	Data size in raw byte format
	DataUncompressed	String	Uncompressed data size in k / M / G format
	DataRawUncompressed	String	Uncompressed data size in raw byte format
	DataNo	String	
	RetainSize	String	Retained data size in k / M / G format

RetainRawSize	String	Retained data size in raw byte format
RetainUncompressed	String	Uncompressed retained data size in k / M / G format
RetainRawUncompressed	String	Uncompressed retained data size in raw byte format
RetainNo	String	
UploadSize	String	Uploaded data size in k / M / G format
UploadRawSize	String	Uploaded data size in raw byte format
UploadUncompressed	String	Uncompressed uploaded data size in k / M / G format
UploadRawUncompressed	String	Uncompressed uploaded data size in raw byte format
UploadNo	String	
TotalStorageSize	String	Total storage size in k / M / G format
TotalStorageRawSize	String	Total storage size in raw byte format
TotalStorageUncompressed	String	Uncompressed total storage size in k / M / G format
TotalStorageRawUncompressed	String	Uncompressed total storage size in raw byte format
TotalStorageNo	String	
DestinationID	String	Desintation storage ID

Example:

Input

```
{
  "SysUser": "api",
  "SysPwd": "pwd",
  "LoginName": "user",
  "YearMonth": "2018-03"
}
```

Output

```
{
  "Status": "OK",
  "Data": {
    "AvgRetainRawUncompressed": "2934857413",
    "AvgUploadRawSize": "14783430685",
    "AvgUploadNo": "45",
    "AvgTotalStorageNo": "464",
    "AvgDataUncompressed": "29.07G",
    "AvgDataNo": "445",
    "AvgTotalStorageSize": "19.69G",
    "YearMonth": "2018-03",
    "AvgUploadUncompressed": "22.12G",
    "AvgDataRawSize": "18212777351",
    "AvgUploadRawUncompressed": "23749526049",
    "AvgDataSize": "16.96G",
    "Storage": [
      {
        "UploadUncompressed": "31.99G",
        "DataUncompressed": "31.79G",
        "UploadNo": "38",
        "DataRawUncompressed": "34135821228",
        "TotalStorageSize": "19.69G",
        "DataRawSize": "21138502960",
        "UploadRawUncompressed": "34347048996",
        "UploadRawSize": "21172968400",
        "RetainSize": "319k", "RetainNo": "11",
        "UploadSize": "19.72G",
        "RetainRawUncompressed": "775828",
        "Date": "2018-03-01",
        "DestinationID": "",
        "TotalStorageNo": "467",
        "TotalStorageUncompressed": "31.79G",
        "RetainUncompressed": "757k",
        "DataSize": "19.69G",
        "TotalStorageRawUncompressed": "34136597056",
        "RetainRawSize": "327264",
        "TotalStorageRawSize": "21138830224",
        "DataNo": "456"
      },
      {
        "UploadUncompressed": "24.11G",
        "DataUncompressed": "31.79G",
        "UploadNo": "34",
        "DataRawUncompressed": "34135821228",

```



```

"TotalStorageSize": "19.69G",
"DataRawSize": "21138502960",
"UploadRawUncompressed": "25888260644",
"UploadRawSize": "17405569645",
"RetainSize": "319k",
"RetainNo": "11",
"UploadSize": "16.21G",
"RetainRawUncompressed": "775828",
"Date": "2018-03-02",
"DestinationID": "",
"TotalStorageNo": "467",
"TotalStorageUncompressed": "31.79G",
"RetainUncompressed": "757k",
"DataSize": "19.69G",
"TotalStorageRawUncompressed": "34136597056",
"RetainRawSize": "327264",
"TotalStorageRawSize": "21138830224",
"DataNo": "456"
},
{
  "UploadUncompressed": "24.11G",
  "DataUncompressed": "31.79G",
  "UploadNo": "34",
  "DataRawUncompressed": "34135821228",
  "TotalStorageSize": "19.69G",
  "DataRawSize": "21138502960",
  "UploadRawUncompressed": "25888260644",
  "UploadRawSize": "17405569645",
  "RetainSize": "319k",
  "RetainNo": "11",
  "UploadSize": "16.21G",
  "RetainRawUncompressed": "775828",
  "Date": "2018-03-03",
  "DestinationID": "",
  "TotalStorageNo": "467",
  "TotalStorageUncompressed": "31.79G",
  "RetainUncompressed": "757k",
  "DataSize": "19.69G",
  "TotalStorageRawUncompressed": "34136597056",
  "RetainRawSize": "327264",
  "TotalStorageRawSize": "21138830224",
  "DataNo": "456"
},
{
  "UploadUncompressed": "24.11G",
  "DataUncompressed": "31.79G",
  "UploadNo": "34",
  "DataRawUncompressed": "34135821228",
  "TotalStorageSize": "19.69G",
  "DataRawSize": "21138502960",
  "UploadRawUncompressed": "25888260644",
  "UploadRawSize": "17405569645",
  "RetainSize": "319k",
  "RetainNo": "11",
  "UploadSize": "16.21G",
  "RetainRawUncompressed": "775828",
  "Date": "2018-03-04",
  "DestinationID": "",
  "TotalStorageNo": "467",
  "TotalStorageUncompressed": "31.79G",
  "RetainUncompressed": "757k",
  "DataSize": "19.69G",
  "TotalStorageRawUncompressed": "34136597056",
  "RetainRawSize": "327264",
  "TotalStorageRawSize": "21138830224",
  "DataNo": "456"
}
},
"AvgRetainUncompressed": "2.73G",
"AvgTotalStorageRawUncompressed": "34144010722",
"AvgTotalStorageRawSize": "21139974085",
"AvgTotalStorageUncompressed": "31.8G",

```

```
"AvgDataRawUncompressed": "31209153309",  
"AvgRetainNo": "19",  
"AvgUploadSize": "13.77G",  
"AvgRetainRawSize": "2927196734",  
"AvgRetainSize": "2.73G" }  
}
```

Example:

Input No storage log found

```
{  
"SysUser": "api",  
"SysPwd": "pwd",  
"LoginName": "user",  
"YearMonth": "2018-03"  
}
```

Output

```
{  
"Status": "Error",  
"Message": "No storage log found",  
"ExptType": "com.ahsay.obs.core.dbs.c"  
}
```

4.1.6 UpdateUserProfile (v1), UpdateUser (v2)

This API updates the information of a user profile.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > username

v1 UpdateUserProfile.do

URL:			
https://BACKUP_SERVER/obs/api/json/UpdateUserProfile.do			
Available since version:			
8.5			
Parameters:			
Key	Type	Descriptions	
SysUser	String	AhsayCBS's system users with admin role.	
SysPwd	String	AhsayCBS's system users password with admin role.	
LoginName	String	Client user name.	
Owner	String		
Alias	String		
Status	String	SUSPENDED Default: ENABLE	
Type	String	TRIAL or PAID. Default to TRIAL if not specified.	
ClientType	String	ACB or OBM	
Password	String	Password of the user account.	
Language	String	Language used by the client user.	
Notes	String		
Quota	Long	Units in bytes. Note: To utilize the feature with the Quota Management (e.g. individual quota for standard and predefined destination), ensure to utilize the v2 UpdateUserProfile.do.	
DestinationQuotaList	JSON object	List of quota for predefined or standard backup destination.	
HostQuotaEnabled	Boolean	Enable / Disable Client host.	
HostQuota	Long	Client host limit.	
RunDirectQuotaEnabled	Boolean		
RunDirectQuota	Long		
ModuleSettings	JSON Object		
WindowsEventLogSettings	WindowsEventLogSettings		
Contact	Array	If "AppendContact" is "Y", all contacts in the array will be appended to the contacts.	
AppendContact	String	"Y" or "N" to modify an existing contact (retrieve the corresponding keys required with the GetUser.do API)	
ChangeContact	String	"Y" or "N" to change and overwrite an existing (retrieve the corresponding keys required with the GetUser.do API)	
OldContact	Array	Existing contacts. It is used if "ChangeContact" is "Y"	
NewContact	Array	If "ChangeContact" is "Y", all contacts in OldContact will be updated with NewContact	
SecuritySettings	JSON object	Parameter available only if global MFA Setting is ON. Update to PhoneList array is by replacement of whole list. Note: If modifying the PhoneList, most recent phone number (based on LastSuccessfulLoginInfo "PhoneNumber") cannot be removed by API, due to API validation check. That phone number must be included when updating PhoneList.	

JSON Objects:			
ModuleSettings			
	Key	Type	Descriptions
	MSExchangeMailboxBackupEnabled	Boolean	Defines whether module MS Exchange Mailbox backup will be enabled
	MSExMailboxQuota	Long	
	MSSQLBackupEnabled	Boolean	Defines whether module MS SQL backup will be enabled
	MSExchangeBackupEnabled	Boolean	Defines whether module MS Exchange backup will be enabled
	OracleBackupEnabled	Boolean	Defines whether module Oracle backup will be enabled
	LotusDominoBackupEnabled	Boolean	Defines whether module Lotus Domino backup will be enabled
	LotusNotesBackupEnabled	Boolean	Defines whether module Lotus Notes backup will be enabled
	MySQLBackupEnabled	Boolean	Defines whether module MySQL backup will be enabled
	InFileDeltaEnabled	Boolean	Defines whether module In-File Delta will be enabled
	ShadowCopyEnabled	Boolean	Defines whether module ShadowCopy will be enabled
	NasClientEnabled	Boolean	Defines whether module Synology NAS Client will be enabled
	QnapEnabled	Boolean	Defines whether module QNAP will be enabled
	DeltaMergeEnabled	Boolean	
	MSHyperVBackupEnabled	Boolean	Defines whether module MS HyperV backup will be enabled
	MSHyperVVMQuota	Long	Defines whether module MS HyperV VM backup will be enabled
	MSHyperVVMQuotaType	String	
	VMwareBackupEnabled	Boolean	Defines whether module VMWare backup will be enabled
	VMwareVMQuota	Long	
	VMwareVMQuotaType	String	Defines whether module VMWare VM backup will be enabled
	CDPEnabled	Boolean	Defines whether module CDP will be enabled
	ShadowProtectBackupEnabled	Boolean	Defines whether module ShadowProtect backup will be enabled
	MSWindowsSystemBackupEnabled	Boolean	Defines whether module MS Windows System backup will be enabled
	MSWindowsSystemStateBackupEnabled	Boolean	Defines whether module MS Windows System State backup will be enabled
	EnableOffice365Mail	Boolean	Defines whether module Office365 Mail backup will be enabled
	Office365MailQuota	Long	
	MobileEnabled	Boolean	Deprecated from v8.5; no new mobile v1 modules can be Enabled for users
	MobileV2Enabled	Boolean	Defines whether modules MobileV2 will be enabled
	MobileQuota	Long	Deprecated from v8.5
	MobileQuotaV2	Long	Fixed at 10 regardless if input
	EnableOpenDirect	Boolean	Defines whether module OpenDirect will be enabled
	OpenDirectQuota	String	
	MariaDBBackupEnabled	Boolean	Defines whether module MariaDB backup will be enabled
Contact			
	Key	Type	Descriptions
	Contact	String	
	Email	String	Example: name@domain.com
WindowsEventLogSettings			
	Key	Type	Descriptions
	Enabled	Boolean	
	LogError	Boolean	Log type
	LogProfile	Boolean	Log option
	LogServices	Boolean	Log option
	LogUtilities	Boolean	Log option
	LogBackup	Boolean	Log option
	LogSoftwareUpdate	Boolean	Log option
	LogReport	Boolean	Log option
	LogLoginLogout	Boolean	Log option
	LogInfo	Boolean	Log type
	LogBuy	Boolean	
	LogLicense	Boolean	
	LogWarn	Boolean	Log type
	LogRestore	Boolean	

DestinationQuotaList		
Key	Type	Descriptions
Enabled	Boolean	
Quota	Long	Quota of the backup destination, unit in byte.
DestinationKey	String	ID of the backup destination.
UserSuspendSettings		
Key	Type	Descriptions
Enabled	Boolean	
Date	String	Date in Unix time.
SystemSettings		
Key	Type	Descriptions
Enable	Boolean	
PhoneList	Array	
CountryCode	Long	Country code
PhoneNumber	String	SMS phone number
Verified	Boolean	Not Applicable by API. Default value "False"
VerifiedTime	Long	Not Applicable by API
Id	String	Not Applicable by API
Return Values:		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
Example:		
Input - Add contacts (ChangeContact (Y))		
<pre>{ "SysUser": "system", "SysPwd": "system", "LoginName": "22434", "ChangeContact": "Y", "OldContact": [{ "Company": "mikeconsole", "Email": "mike@example.com", "Address": "mikehome", "Website": "www.ahsay.com", "Name": "mike4", "Phone1": "123456", "Phone2": "234567" }], { "Company": "mikeconsole2", "Email": "onconsole@example.com", "Address": "", "Website": "", "Name": "mike2", "Phone1": "", "Phone2": "" }], { "Company": "sda fdsafsd", "Email": "aasdf@example.com", "Address": "fdsadfdsa", "Website": "www.ahsay.com", "Name": "mikemike4", "Phone1": "12345", "Phone2": "34567" }], { "Company": "New Company 2", "Email": "NewName2@NewName.com", "Address": "New API2 Road", "Website": "www.newwebsite2.com", "Name": "NewName2", "Phone1": "99887766", "Phone2": "66778899" } }, { }</pre>		

	<pre> "NewContact": [{ "Company": "mikeconsole", "Email": "mike@example.com", "Address": "mikehome", "Website": "www.ahsay.com", "Name": "mike4", "Phone1": "123456", "Phone2": "234567" }, { "Company": "mikeconsole2", "Email": "onconsole@example.com", "Address": "", "Website": "", "Name": "mike2", "Phone1": "", "Phone2": "" }, { "Company": "sda fdsafsd", "Email": "aasdf@example.com", "Address": "fdsadfdsa", "Website": "www.ahsay.com", "Name": "mikemike4", "Phone1": "12345", "Phone2": "34567" }, { "Company": "New Contact", "Email": "NewContact@NewName.com", "Address": "New ContactRoad", "Website": "www.newcontact.com", "Name": "NewContact", "Phone1": "99998888", "Phone2": "66667777" }, { "Company": "New Company 2", "Email": "NewName2@NewName.com", "Address": "New API2 Road", "Website": "www.newwebsite2.com", "Name": "NewName2", "Phone1": "99887766", "Phone2": "66778899" }] } </pre>
	Output
	<p>The contact with email "NewContact@NewName.com" is added.</p> <pre> { "Status": "OK", "Info": "Deprecated. As of version 7.15.6.38, replaced by v2 API /obs/api/json/2/UpdateUser." } </pre>
	Example:
	Input - Update contact (ChangeContact (Y))
	<pre> { "SysUser": "system", "SysPwd": "system", "LoginName": "22434", "ChangeContact": "Y", "OldContact": [{ "Company": "mikeconsole", "Email": "mike@example.com", "Address": "mikehome", "Website": "www.ahsay.com", "Name": "mike4", "Phone1": "123456", "Phone2": "234567" }], "NewContact": [{ "Company": "mikeconsole-update", "Email": "mike@example.com", "Address": "mikehome-update", </pre>

	<pre> "Website": "www.ahsay-update.com", "Name": "mike4-update", "Phone1": "654321", "Phone2": "765432" }} } </pre>
	Output
	<p>Output: The contact with email "mike@email.com" is updated.</p> <pre> { "Status": "OK", "Info": "Deprecated. As of version 7.15.6.38, replaced by v2 API /obs/api/json/2/UpdateUser." } </pre>
	Example:
	Input - Delete contact (ChangeContact (Y))
	<pre> { "SysUser": "system", "SysPwd": "system", "LoginName": "22434", "ChangeContact": "Y", "OldContact": [{ "Company": "mikeconsole", "Email": "mike@example.com", "Address": "mikehome", "Website": "www.ahsay.com", "Name": "mike4", "Phone1": "123456", "Phone2": "234567" }], { "Company": "mikeconsole2", "Email": "onconsole@example.com", "Address": "", "Website": "", "Name": "mike2", "Phone1": "", "Phone2": "" }], { "Company": "sdfdsafdsf", "Email": "aasdf@example.com", "Address": "fdsafdsa", "Website": "www.ahsay.com", "Name": "mikemike4", "Phone1": "12345", "Phone2": "34567" }], { "Company": "New Company 2", "Email": "NewName2@NewName.com", "Address": "New API2 Road", "Website": "www.newwebsite2.com", "Name": "NewName2", "Phone1": "99887766", "Phone2": "66778899" }], { "Company": "New API Company - Change", "Email": "NewName@NewName.com", "Address": "New API Change Road", "Website": "www.newwebsite-change.com", "Name": "NewNameChange", "Phone1": "55443322", "Phone2": "66554433" }], "NewContact": [{ "Company": "mikeconsole", "Email": "mike@example.com", "Address": "mikehome", "Website": "www.ahsay.com", "Name": "mike4", "Phone1": "123456", "Phone2": "234567" }], { </pre>

	<pre> "Company": "mikeconsole2", "Email": "onconsole@example.com", "Address": "", "Website": "", "Name": "mike2", "Phone1": "", "Phone2": "" }, { "Company": "sdafdsafsd", "Email": "aasdf@example.com", "Address": "fdsadfdsa", "Website": "www.ahsay.com", "Name": "mikemike4", "Phone1": "12345", "Phone2": "34567" }, { "Company": "New Company 2", "Email": "NewName2@NewName.com", "Address": "New API2 Road", "Website": "www.newwebsite2.com", "Name": "NewName2", "Phone1": "99887766", "Phone2": "66778899" }} } </pre>
	Output
	<p>The contact with email "NewName@NewName.com" is deleted.</p> <pre> { "Status": "OK", "Info": "Deprecated. As of version 7.15.6.38, replaced by v2 API /obs/api/json/2/UpdateUser." } </pre>
	Example:
	Input - Append contacts with duplication (AppendContact (Y))
	<pre> { "SysUser": "system", "SysPwd": "system", "LoginName": "22434", "AppendContact": "Y", "Contact": [{ "Company": "New Company", "Email": "NewName@NewName.com", "Address": "New API Road", "Website": "www.newwebsite.com", "Name": "NewName", "Phone1": "22334455", "Phone2": "33445566" }] } </pre>
	Output
	<pre> { "Status": "Error", "Message": "[UpdateUserProfile.checkDuplicatedEmail] Contact already exists <NewName@NewName.com>", "ExptType": "com.ahsay.obs.core.dbs.DbsException", "Info": "Deprecated. As of version 7.15.6.38, replaced by v2 API /obs/api/json/2/UpdateUser." } </pre>

Example:	
	Input - Append contacts without duplication (AppendContact (Y))
	<pre>{ "SysUser": "system", "SysPwd": "system", "LoginName": "22434", "AppendContact": "Y", "Contact": [{ "Company": "New Company 2", "Email": "NewName2@NewName.com", "Address": "New API2 Road", "Website": "www.newwebsite2.com", "Name": "NewName2", "Phone1": "99887766", "Phone2": "66778899" }] }</pre>
	Output
	<pre>{ "Status": "OK", "Info": "Deprecated. As of version 7.15.6.38, replaced by v2 API /obs/api/json/2/UpdateUser." }</pre>
Example:	
	Input - Delete all contacts (AppendContact (N))
	<pre>{ "SysUser": "system", "SysPwd": "system", "LoginName": "22434", "AppendContact": "N", "Contact": [{ "Company": "append contact company", "Email": "append-contact@email.com", "Address": "append contact road", "Website": "www.append-contact.com", "Name": "replace-contact", "Phone1": "11112222", "Phone2": "2223333" }] }</pre>
	Output
	<pre>{ "Status": "OK", "Info": "Deprecated. As of version 7.15.6.38, replaced by v2 API /obs/api/json/2/UpdateUser." }</pre>
Example:	
	Input - Replace contacts (AppendContact (N))
	<pre>{ "SysUser": "system", "SysPwd": "system", "LoginName": "22434", "AppendContact": "N", "Contact": [{ "Company": "append contact company", "Email": "append-contact@email.com", "Address": "append contact road", "Website": "www.append-contact.com", "Name": "replace-contact", "Phone1": "11112222", "Phone2": "2223333" }] }</pre>

Output	
	<p>Only the contact with email "append-contact@email.com" is found in the contact list</p> <pre>{ "Status": "OK", "Info": "Deprecated. As of version 7.15.6.38, replaced by v2 API /obs/api/json/2/UpdateUser." }</pre>
Example:	
Input - Change module settings	
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "Password": "user_password", "ModuleSettings": { "MSEXchangeBackupEnabled": "true" } }</pre>
Output	
	<pre>{ "Status": "OK", "Info": "Deprecated. As of version 7.15.6.38, replaced by v2 API /obs/api/json/2/UpdateUser." }</pre>
Example:	
Input - Change subscription type to PAID and disable suspend at option	
	<pre>{ "SysUser": "system", "SysPwd": "system", "LoginName": "username", "Type": "PAID", "UserSuspendSettings": { "Enabled": "false", "Date": "2106396800000", }, }</pre>
Output	
	<pre>{ "Status": "OK", "Info": "Deprecated. As of version 7.15.6.38, replaced by v2 API /obs/api/json/2/UpdateUser." }</pre>
Example:	
Input – Add or Change MFA Phone Number or Enable	
	<pre>{ "SysUser": "system", "SysPwd": "system", "LoginName": "username", "SecuritySettings": { "PhoneList": [{ "PhoneNumber": "2128675309", "CountryCode": 1 }, { "PhoneNumber": "8085551234", "CountryCode": 1 }], "Enable": true } }</pre>
Output	
	<pre>{ "Status": "OK", "Info": "Deprecated. As of version 7.15.6.38, replaced by v2 API /obs/api/json/2/UpdateUser." }</pre>

v2 UpdateUser.do

To facilitate the Quota Management feature, a new version of the UpdateUserProfile.do API (v2 UpdateUser.do) was introduced.

A new **QuotaList** JSON object (list of quota for multiple backup destinations) was introduced to replace the single **Quota** parameter.

While AhsayCBS version 8.1 or above is backward compatible with API calls in previous format (pre-7.15.6.0 API format), it is highly recommended to use the new version of the API instead (e.g. v2 UpdateUser.do).

Note: The name of the **UpdateUserProfile.do** API has changed to **UpdateUser.do**.

URL:			
	https://BACKUP_SERVER/obs/api/json/2/UpdateUser.do		
Available since version:			
	8.5		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	AhsayCBS's system users with admin role.
	SysPwd	String	AhsayCBS's system users password with admin role.
	LoginName	String	Client user name.
	Owner	String	
	Alias	String	
	Status	String	SUSPENDED Default: ENABLE
	Type	String	TRIAL or PAID. Default to TRIAL if not specified.
	ClientType	String	ACB or OBM
	Password	String	Password of the user account.
	Language	String	Language used by the client user.
	Notes	String	
	QuotaList	JSON object	
	HostQuotaEnabled	Boolean	Enable / Disable Client host.
	HostQuota	Long	Client host limit.
	RunDirectQuotaEnabled	Boolean	
	RunDirectQuota	Long	
	ModuleSettings	JSON object	Used to assign modules
	WindowsEventLogSettings	WindowsEventLogSettings	
	Contact	Array	If "AppendContact" is "Y", all contacts in the array will be appended to the contacts.
	AppendContact	String	"Y" or "N" to modify an existing contact (retrieve the corresponding keys required with the GetUser.do API)
	ChangeContact	String	"Y" or "N" to change and overwrite an existing (retrieve the corresponding keys required with the GetUser.do API)
	OldContact	Array	Existing contacts. It is used if "ChangeContact" is "Y"
	NewContact	Array	If "ChangeContact" is "Y", all contacts in OldContact will be updated with NewContact
	SecuritySettings	JSON object	Parameter available only if global MFA Setting is ON. Update to PhoneList array is by replacement of whole list. Note: If modifying the PhoneList, most recent phone number (based on LastSuccessfulLoginInfo "PhoneNumber") cannot be removed by API, due to API validation check. That phone number must be included when updating PhoneList.

JSON Objects:			
	ModuleSettings		
	Key	Type	Descriptions
	MSEExchangeMailboxBackupEnabled	Boolean	Defines whether module MS Exchange Mailbox backup will be enabled
	MSExMailboxQuota	Long	
	MSSQLBackupEnabled	Boolean	Defines whether module MS SQL backup will be enabled
	MSEExchangeBackupEnabled	Boolean	Defines whether module MS Exchange backup will be enabled
	OracleBackupEnabled	Boolean	Defines whether module Oracle backup will be enabled
	LotusDominoBackupEnabled	Boolean	Defines whether module Lotus Domino backup will be enabled
	LotusNotesBackupEnabled	Boolean	Defines whether module Lotus Notes backup will be enabled
	MySQLBackupEnabled	Boolean	Defines whether module MySQL backup will be enabled
	InFileDeltaEnabled	Boolean	Defines whether module In-File Delta will be enabled
	ShadowCopyEnabled	Boolean	Defines whether module ShadowCopy will be enabled
	NasClientEnabled	Boolean	Defines whether module Synology NAS Client will be enabled
	QnapEnabled	Boolean	Defines whether module QNAP will be enabled
	DeltaMergeEnabled	Boolean	
	MSHyperVBackupEnabled	Boolean	Defines whether module MS HyperV backup will be enabled
	MSHyperVVMQuota	Long	Defines whether module MS HyperV VM backup will be enabled
	MSHyperVVMQuotaType	String	
	VMwareBackupEnabled	Boolean	Defines whether module VMWare backup will be enabled
	VMwareVMQuota	Long	
	VMwareVMQuotaType	String	Defines whether module VMWare VM backup will be enabled
	CDPEnabled	Boolean	Defines whether module CDP will be enabled
	ShadowProtectBackupEnabled	Boolean	Defines whether module ShadowProtect backup will be enabled
	MSWindowsSystemBackupEnabled	Boolean	Defines whether module MS Windows System backup will be enabled
	MSWindowsSystemStateBackupEnabled	Boolean	Defines whether module MS Windows System State backup will be enabled
	Office365MailEnabled	Boolean	Defines whether module Office365 Mail backup will be enabled
	Office365MailQuota	Long	
	MobileEnabled	Boolean	Deprecated from v8.5; no new mobile v1 modules can be Enabled for users
	MobileV2Enabled	Boolean	Defines whether modules MobileV2 will be enabled
	MobileQuota	Long	Deprecated from v8.5
	MobileQuotaV2	Long	Fixed at 10 regardless if input
	OpenDirectEnabled	Boolean	Defines whether module OpenDirect will be enabled
	OpenDirectQuota	String	
	MariaDBBackupEnabled	Boolean	Defines whether module MariaDB backup will be enabled
	Contact		
	Key	Type	Descriptions
	Company	String	
	Email	String	
	Address	String	
	Website	String	
	Name	String	
	Phone1	String	
	Phone2	String	
	WindowsEventLogSettings		
	Key	Type	Descriptions
	Enabled	Boolean	
	LogError	Boolean	Log type
	LogProfile	Boolean	Log option
	LogServices	Boolean	Log option
	LogUtilities	Boolean	Log option
	LogBackup	Boolean	Log option
	LogSoftwareUpdate	Boolean	Log option
	LogReport	Boolean	Log option
	LogLoginLogout	Boolean	Log option
	LogInfo	Boolean	Log type
	LogBuy	Boolean	
	LogLicense	Boolean	
	LogWarn	Boolean	Log type

LogRestore	Boolean	

QuotaList		
Key	Type	Descriptions
Enabled	Boolean	
Quota	Long	Quota of the backup destination, unit in byte.
DestinationKey	String	Key of the backup destination.

UserSuspendSettings		
Key	Type	Descriptions
Enabled	Boolean	
Date	String	Date in Unix time.

SystemSettings		
Key	Type	Descriptions
Enable	Boolean	
PhoneList	Array	
CountryCode	Long	Country code
PhoneNumber	String	SMS phone number
Verified	Boolean	Not Applicable by API. Default value "False"
VerifiedTime	Long	Not Applicable by API
Id	String	Not Applicable by API

Return Values:

Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

Example:

Input - Update quota setting	
<pre>{ "SysUser": "system", "SysPwd": "system", "LoginName": "username", "QuotaList": [{ "Enabled": true, "DestinationKey": "OBS", "Quota": 73400320 }] }</pre>	
Output	
<pre>{ "Status": "OK", }</pre>	

Example:

Input - Add contacts (ChangeContact (Y))	
<pre>{ "SysUser": "system", "SysPwd": "system", "LoginName": "22434", "ChangeContact": "Y", "OldContact": [{ "Company": "mikeconsole", "Email": "mike@example.com", "Address": "mikehome", "Website": "www.ahsay.com", "Name": "mike4", "Phone1": "123456", "Phone2": "234567" }], { "Company": "mikeconsole2", </pre>	

	<pre> "Email": "onconsole@example.com", "Address": "", "Website": "", "Name": "mike2", "Phone1": "", "Phone2": "" }, { "Company": "sdfdsafdsdf", "Email": "aasdf@example.com", "Address": "fdsadfsa", "Website": "www.ahsay.com", "Name": "mikemike4", "Phone1": "12345", "Phone2": "34567" }, { "Company": "New Company 2", "Email": "NewName2@NewName.com", "Address": "New API2 Road", "Website": "www.newwebsite2.com", "Name": "NewName2", "Phone1": "99887766", "Phone2": "66778899" }}, "NewContact": { "Company": "mikeconsole", "Email": "mike@example.com", "Address": "mikehome", "Website": "www.ahsay.com", "Name": "mike4", "Phone1": "123456", "Phone2": "234567" }, { "Company": "mikeconsole2", "Email": "onconsole@example.com", "Address": "", "Website": "", "Name": "mike2", "Phone1": "", "Phone2": "" }, { "Company": "sdfdsafdsdf", "Email": "aasdf@example.com", "Address": "fdsadfsa", "Website": "www.ahsay.com", "Name": "mikemike4", "Phone1": "12345", "Phone2": "34567" }, { "Company": "New Contact", "Email": "NewContact@NewName.com", "Address": "New ContactRoad", "Website": "www.newcontact.com", "Name": "NewContact", "Phone1": "99988888", "Phone2": "66667777" }, { "Company": "New Company 2", "Email": "NewName2@NewName.com", "Address": "New API2 Road", "Website": "www.newwebsite2.com", "Name": "NewName2", "Phone1": "99887766", "Phone2": "66778899" } } } } </pre>
	Output
	<pre> The contact with email "NewContact@NewName.com" is added. { "Status": "OK", </pre>

	}
Example:	
	Input - Update contact (ChangeContact (Y))
	<pre>{ "SysUser": "system", "SysPwd": "system", "LoginName": "22434", "ChangeContact": "Y", "OldContact": [{ "Company": "mikeconsole", "Email": "mike@example.com", "Address": "mikehome", "Website": "www.ahsay.com", "Name": "mike4", "Phone1": "123456", "Phone2": "234567" }], "NewContact": [{ "Company": "mikeconsole-update", "Email": "mike@email.com", "Address": "mikehome-update", "Website": "www.ahsay-update.com", "Name": "mike4-update", "Phone1": "654321", "Phone2": "765432" }] }</pre>
	Output
	<p>Output: The contact with email "mike@email.com" is updated.</p> <pre>{ "Status": "OK", }</pre>
Example:	
	Input - Delete contact (ChangeContact (Y))
	<pre>{ "SysUser": "system", "SysPwd": "system", "LoginName": "22434", "ChangeContact": "Y", "OldContact": [{ "Company": "mikeconsole", "Email": "mike@example.com", "Address": "mikehome", "Website": "www.ahsay.com", "Name": "mike4", "Phone1": "123456", "Phone2": "234567" }], { "Company": "mikeconsole2", "Email": "onconsole@example.com", "Address": "", "Website": "", "Name": "mike2", "Phone1": "", "Phone2": "" }, { "Company": "sda fdsafsd", "Email": "aasdf@example.com", "Address": "fdsadfdsa", "Website": "www.ahsay.com", "Name": "mikemike4", "Phone1": "12345", "Phone2": "34567" }, { "Company": "New Company 2", "Email": "NewName2@NewName.com", "Address": "New API2 Road", "Website": "www.newwebsite2.com", } }</pre>

	<pre> "Name": "NewName2", "Phone1": "99887766", "Phone2": "66778899" }, { "Company": "New API Company - Change", "Email": "NewName@NewName.com", "Address": "New API Change Road", "Website": "www.newwebsite-change.com", "Name": "NewNameChange", "Phone1": "55443322", "Phone2": "66554433" }}, "NewContact": [{ "Company": "mikeconsole", "Email": "mike@example.com", "Address": "mikehome", "Website": "www.ahsay.com", "Name": "mike4", "Phone1": "123456", "Phone2": "234567" }, { "Company": "mikeconsole2", "Email": "onconsole@example.com", "Address": "", "Website": "", "Name": "mike2", "Phone1": "", "Phone2": "" }, { "Company": "sdfdsafdsf", "Email": "aasdf@example.com", "Address": "fdsadfsa", "Website": "www.ahsay.com", "Name": "mikemike4", "Phone1": "12345", "Phone2": "34567" }, { "Company": "New Company 2", "Email": "NewName2@NewName.com", "Address": "New API2 Road", "Website": "www.newwebsite2.com", "Name": "NewName2", "Phone1": "99887766", "Phone2": "66778899" }] } </pre>
	Output
	<p>The contact with email "NewName@NewName.com" is deleted.</p> <pre> { "Status": "OK", } </pre>
	Example:
	Input - Append contacts with duplication (AppendContact (Y))
	<pre> { "SysUser": "system", "SysPwd": "system", "LoginName": "22434", "AppendContact": "Y", "Contact": [{ "Company": "New Company", "Email": "NewName@NewName.com", "Address": "New API Road", "Website": "www.newwebsite.com", "Name": "NewName", "Phone1": "22334455", "Phone2": "33445566" }] } </pre>

	Output
	<pre>{ "Status": "Error", "Message": "[UpdateUserProfile.checkDuplicatedEmail] Contact already exists <NewName@NewName.com>", "ExptType": "com.ahsay.obs.core.dbs.DbsException", }</pre>
	Example:
	Input - Append contacts without duplication (AppendContact (Y))
	<pre>{ "SysUser": "system", "SysPwd": "system", "LoginName": "22434", "AppendContact": "Y", "Contact": [{ "Company": "New Company 2", "Email": "NewName2@NewName.com", "Address": "New API2 Road", "Website": "www.newwebsite2.com", "Name": "NewName2", "Phone1": "99887766", "Phone2": "66778899" }] }</pre>
	Output
	<pre>{ "Status": "OK", }</pre>
	Example:
	Input - Delete all contacts (AppendContact (N))
	<pre>{ "SysUser": "system", "SysPwd": "system", "LoginName": "22434", "AppendContact": "N", "Contact": [{ "Company": "append contact company", "Email": "append-contact@email.com", "Address": "append contact road", "Website": "www.append-contact.com", "Name": "replace-contact", "Phone1": "11112222", "Phone2": "2223333" }] }</pre>
	Output
	<pre>{ "Status": "OK", }</pre>
	Example:
	Input - Replace contacts (AppendContact (N))
	<pre>{ "SysUser": "system", "SysPwd": "system", "LoginName": "22434", "AppendContact": "N", "Contact": [{ "Company": "append contact company", "Email": "append-contact@email.com", "Address": "append contact road", "Website": "www.append-contact.com", "Name": "replace-contact", "Phone1": "11112222", "Phone2": "2223333" }] }</pre>

	} }
	Output
	Only the contact with email "append-contact@email.com" is found in the contact list { "Status": "OK", }
	Example:
	Input - Change module settings
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "QuotaList": [{ "Enabled": true, "DestinationKey": "OBS", "Quota": 73210000, }] }
	Output
	{ "Status": "OK", }
	Example:
	Input - Change subscription type to PAID and disable suspend at option
	{ "SysUser": "system", "SysPwd": "system", "LoginName": "username", "Type": "PAID", "UserSuspendSettings": { "Enabled": false, "Date": 2106396800000, }, }
	Output
	{ "Status": "OK", }
	Example:
	Input – Add or Change MFA Phone Number or Enable
	{ "SysUser": "system", "SysPwd": "system", "LoginName": "username", "SecuritySettings": { "PhoneList": [{ "PhoneNumber": "2128675309", "CountryCode": 1 }, { "PhoneNumber": "8085551234", "CountryCode": 1 }], "Enable": true } }
	Output
	{ "Status": "OK" }

	}
Example:	
	Input - Change MobileV2Enabled module settings
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "ModuleSettings": [{ "MobileQuota": 10, "MobileEnabled": true, "MobileV2Enabled": true, }] }</pre>
	Output
	<pre>{ "Status": "OK", }</pre>

4.1.7 AddContact

This API add a new contact information to a user.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > username > [User Profile] > [Contact]

URL:			
	https://BACKUP_SERVER/obs/api/json/AddContact.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	Owner	String	
	NewContact	JSON Object Contact	
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	Contact		
	Key	Type	Descriptions
	Name	String	
	Email	String	Example: <i>name@domain.com</i>
Example:			
Input			
<pre>{ "SysUser": "SysUser", "SysPwd": "SysPwd", "LoginName": "User", "NewContact": { "Name": "Name1", "Email": "test1@test.mail" } }</pre>			
Output			
<pre>{ "Status": "OK" }</pre>			
Output 2 duplicate contact name			
<pre>{ "Status": "Error", "Message": "Contact name is already in use.", "ExptType": "com.ahsay.obs.core.dbs.c" }</pre>			

4.1.8 AddUser (v1,v2)

This API can be used to add new backup user.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user]

v1 AddUser.do

URL:			
	https://BACKUP_SERVER/obs/api/json/AddUser.do		
Available since version:			
	8.5		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	Owner	String	
	Password	String	
	Email	String	Contact Email
	Status	String	If this value is "SUSPENDED", the user is suspended. Otherwise, the user is enabled.
	ClientType	String	ACB or OBM
	Type	String	TRIAL or PAID. Default to TRIAL if not specified
	UserHome	String	Default to the first user home on your user home configuration if not specified. You can find the User home configuration in your CBS console: [Backup / Restore] > [Basic] > [User Home]
	MobileQuota	Long	Deprecated from v8.5, old v1 AhsayMOB quota
	MobileV2Quota	Long	Fixed at 10 regardless of input
	ExchangeMailboxQuota	Long	Exchange mail level backup quota Mandatory if the corresponding add on module is enabled (e.g. "ExchangeMailboxQuota" is mandatory if "EnableExchangeMailbox" is set to true)
	MsVmQuota	Long	Hyper-V VM backup quota Mandatory if the corresponding add on module is enabled (e.g. "MsVmQuota" is mandatory if "EnableMsVm" is set to true)
	MsVmQuotaType	String	The value can be any one of the following: GUESTVM SOCKET Default value is GUESTVM if not provided
	VMwareQuota	Long	VMware VM backup quota Mandatory if the corresponding add on module is enabled (e.g. "VmwareQuota" is mandatory if "EnableVMware" is set to true)
	VMwareQuotaType	String	The value can be any one of the following: GUESTVM SOCKET Default value is GUESTVM if not provided
	RunDirectQuotaEnabled	Boolean	

	RunDirectQuota	Long	Run Direct maximum VM quota Mandatory if the RunDirect is enabled (e.g. "RunDirectQuota" is mandatory if "RunDirectQuotaEnabled" is set to true)
	EnableOffice365Mail	Boolean	
	Office365MailQuota	Long	Office 365 mail backup quota Mandatory if the corresponding add on module is enabled (e.g. "Office365MailQuota" is mandatory if "EnableOffice365Mail" is set to true)
	Language	String	Language used by the user
	DisplayName	String	Alias and Contact name. You are highly recommended to fill this.
	Notes	String	
	Quota	String	Unit in bytes.
	HostQuotaEnabled	Boolean	Enable /Client host
	HostQuota	Long	Client host limit
	EnableMobile	Boolean	Deprecated from v8.5
	EnableMobileV2	Boolean	"MobileV2Quota" fixed at 10 when enabled
	EnableExchangeMailbox	Boolean	
	EnableMSSQL	Boolean	
	EnableMSExchange	Boolean	
	EnableOracle	Boolean	
	EnableLotusDomino	Boolean	
	EnableLotusNotes	Boolean	
	EnableMySQL	Boolean	
	EnableInFileDelta	Boolean	
	EnableShadowCopy	Boolean	
	EnableNASClient	Boolean	
	EnableQnap	Boolean	
	EnableMsVm	Boolean	
	EnableVMware	Boolean	
	EnableCDP	Boolean	
	EnableShadowProtectBareMetal	Boolean	
	EnableWinServer2008BareMetal	Boolean	Enable or disable Windows system back up
	EnableMsWinSysState	Boolean	Enable or disable Windows system state back up
	EnableOpenDirect	Boolean	
	OpenDirectQuota	String	
	EnableMariaDB	Boolean	Defines whether module MariaDB backup will be enabled
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"

Example:	
	Input - Add OBM paid user with status enabled
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "username", "Password": "Xyz567*(", "Quota": "1073741824", "Email": "email_address@hostname", "Type": "Paid", "Status": "ENABLE", "ClientType": "OBM", "DisplayName": "David", "EnableOracle": "True", "EnableOffice365Mail": "True", "Office365MailQuota": "5" }</pre>
	Output
	<pre>{"Status": "OK"}</pre>
	Output User name already in use
	<pre>{ "Status": "Error", "Message": "Login Name 'username' is used", "ExptType": "com.ahsay.obs.core.dbs.c" }</pre>

Example:	
	Input - Add ACB trial user with status suspended
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "username", "Password": "Xyz567*(", "Quota": "1073741824", "Email": "email_address@hostname", "Type": "Trial", "DisplayName": "Peter", "ClientType": "ACB", "Status": "SUSPENDED", "EnableOracle": "True", "EnableOffice365Mail": "True", "Office365MailQuota": "5" }</pre>
	Output
	<pre>{"Status": "OK"}</pre>
	Output if username already in use
	<pre>{ "Status": "Error", "Message": "Login Name 'username' is used", "ExptType": "com.ahsay.obs.core.dbs.c" }</pre>

v2 AddUser.do

To facilitate the Quota Management feature, a new version of the AddUser.do API (v2 AddUser.do) was introduced.

A new **QuotaList** JSON object (list of quota for multiple backup destinations) was introduced to replace the **Quota** parameter.

While AhsayCBS version 8.1 or above is backward compatible with API calls in previous format (pre-7.15.6.0 API format), it is highly recommended to use the new version of the API instead (e.g. v2 AddUser.do).

URL:			
	https://BACKUP_SERVER/obs/api/json/2/AddUser.do		
Available since version:			
	8.5		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	Owner	String	
	Password	String	
	Email	String	Contact Email
	QuotaList	JSON Object ARRAY	
	Status	String	If this value is "SUSPENDED", the user is suspended. Otherwise, the user is enabled.
	ClientType	String	ACB or OBM
	Type	String	TRIAL or PAID. Default to TRIAL if not specified
	UserHome	String	Default to the first user home on your user home configuration if not specified. You can find the User home configuration in your CBS console: [Backup / Restore] > [Basic] > [User Home]
	MobileQuota	Long	Deprecated from v8.5, old v1 AhsayMOB quota
	MobileV2Quota	Long	Fixed at 10 regardless of input
	ExchangeMailboxQuota	Long	Exchange mail level backup quota Mandatory if the corresponding add on module is enabled (e.g. "ExchangeMailboxQuota" is mandatory if "EnableExchangeMailbox" is set to true)
	MsVmQuota	Long	Hyper-V VM backup quota Mandatory if the corresponding add on module is enabled (e.g. "MsVmQuota" is mandatory if "EnableMsVm" is set to true)
	MsVmQuotaType	String	The value can be any one of the following: GUESTVM SOCKET Default value is GUESTVM if not provided
	VMwareQuota	Long	VMware VM backup quota Mandatory if the corresponding add on module is enabled (e.g. "VmwareQuota" is mandatory if "EnableVMware" is set to true)

	VMwareQuotaType	String	The value can be any one of the following: GUESTVM SOCKET Default value is GUESTVM if not provided
	RunDirectQuotaEnabled	Boolean	
	RunDirectQuota	Long	Run Direct maximum VM quota Mandatory if the RunDirect is enabled (e.g. "RunDirectQuota" is mandatory if "RunDirectQuotaEnabled" is set to true)
	EnableOffice365Mail	Boolean	
	Office365MailQuota	Long	Office 365 mail backup quota Mandatory if the corresponding add on module is enabled (e.g. "Office365MailQuota" is mandatory if "EnableOffice365Mail" is set to true)
	Language	String	Language used by the user
	DisplayName	String	Alias and Contact name. You are highly recommended to fill this.
	Notes	String	
	HostQuotaEnabled	Boolean	Enable /Client host
	HostQuota	Long	Client host limit
	EnableMobile	Boolean	Deprecated from v8.5
	EnableMobileV2	Boolean	"MobileV2Quota" fixed at 10 when enabled
	EnableExchangeMailbox	Boolean	
	EnableMSSQL	Boolean	
	EnableMSExchange	Boolean	
	EnableOracle	Boolean	
	EnableLotusDomino	Boolean	
	EnableLotusNotes	Boolean	
	EnableMySQL	Boolean	
	EnableInFileDelta	Boolean	
	EnableShadowCopy	Boolean	
	EnableNASClient	Boolean	
	EnableQnap	Boolean	
	EnableMsVm	Boolean	
	EnableVMware	Boolean	
	EnableCDP	Boolean	
	EnableShadowProtectBareMetal	Boolean	
	EnableWinServer2008BareMetal	Boolean	Enable or disable Windows system back up
	EnableMsWinSysState	Boolean	Enable or disable Windows system state back up
	EnableOpenDirect	Boolean	
	OpenDirectQuota	String	
	EnableMariaDB	Boolean	Defines whether module MariaDB backup will be enabled
QuotaList []			
	Key	Type	Descriptions
	Enabled	Boolean	true / false
	DestinationKey	String	ID of the predefined destination, or "OBS" for quota on AhsayCBS
	Quota	Long	Unit in bytes
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"

Example:

Input - Add OBM paid user with AhsayCBS quota 50 GB and predefined destination quota 50 GB

```
{
  "SysUser": "system",
  "SysPwd": "system",
  "LoginName": "username",
  "Password": "123456",
  "Email": "email_address@server.com",
  "Type": "Paid",
  "Status": "ENABLE",
  "ClientType": "OBM",
  "QuotaList": [
    {
      "Enabled": true,
      "DestinationKey": "OBS",
      "Quota": 53687091200
    },
    {
      "Enabled": true,
      "DestinationKey": "-1526366187317",
      "Quota": 53687091200
    }
  ]
}
```

Output

```
{"Status": "OK"}
```

Output if destination is not visible to user

```
{
  "Status": "Error",
  "Destination": "-1526366187317" is not visible to user 'username' according to policy's [Destinations Visible to Users] settings.",
  "ExptType": "java.lang.Exception"
}
```

Output if the Enable parameter is missing from a destination in the QuotaList

```
{
  "Status": "Error",
  "Message": "Value 'Enabled' is missing in item '-1526366187317' of 'QuotaList'.",
  "ExptType": "java.lang.Exception"
}
```

Output if the Enable parameter is invalid for a destination in the QuotaList

```
{
  "Status": "Error",
  "Message": "Invalid 'Enabled' in item '-1526366187317' of 'QuotaList'.",
  "ExptType": "java.lang.Exception"
}
```

Output if a destination is duplicated in the QuotaList

```
{
  "Status": "Error",
  "Message": "Duplicated DestinationKey (OBS) are not allowed in QuotaList.",
  "ExptType": "java.lang.Exception"
}
```

Output if the Quota value for a destination is invalid (e.g. negative number)

```
{
  "Status": "Error",
  "Message": "Invalid value 'Quota' for item '-1526366187317' of 'QuotaList'. Error: Must be a positive number.",
  "ExptType": "java.lang.Exception"
}
```

Output if the Quota value for a destination is invalid

```
{
  "Status": "Error",
  "Message": "Invalid value 'Quota' for item '-1526366187317' of 'QuotaList'. Error: JSONObject[\"Quota\"] is not a long.",
  "ExptType": "java.lang.Exception"
}
```

4.1.9 GetUser (v1,v2)

This API can be used to retrieve information of a backup user.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user

v1 GetUser.do

URL:		
https://BACKUP_SERVER/obs/api/json/GetUser.do		
Available since version:		
8.3		
Parameters:		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS system user with admin role
SysPwd	String	Password of an AhsayCBS system user with admin role
LoginName	String	Client user name
Owner	String	
Return Values:		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	JSON Object	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:		
User		
Key	Type	Descriptions
AccessToken	String	Client API token that used by OBC, should have no use to customer
AdGroup	String	Legacy v6 Advertisement group (not used by CBS)
AdGroups	Array	Legacy v6 Advertisement groups (not used by CBS)
Alias	String	Alias
BackupSetIdList	Array	ID number of each BackupSet
Bandwidth	Long	
ClientRunVersion	String	
ClientType	String	ACB or OBM
ComputerNameDirList	Array	Path to %USERHOME%/db/ClientLogs/
ContactList	JSON Object ARRAY	
DoubleEncodedName	String	
EmailReportSettings	JSON Object	
EncodedName	String	Encoded User Name
File	String	Path to users.xml
ForgotPAsswordSettings	JSON Object	
FullName	String	For legacy v6 backup sets. The value is only set with the value of "LongLoginName" for get profile request received from Backup Client
GroupPolicySettings	JSON Object	
HashedPassword	Boolean	Legacy, unused by CBS
HomeDir	String	User Home
HostCount	Integer	Current client host limit in use
HostInfo	JSON Object	Number of CPU in client computer of each Run on Client BackupSet and Owner of each Run on Client BackupSet
Hostname	String	CBS server host name
HostQuota	Long	Client host limit
HostQuotaEnabled	Boolean	
HostSet	JSON Object	

	Id	Long	Millisecond time format
	ImportDate	Long	Millisecond time format (0 = Not imported user)
	Language	String	
	LastClientLoginTime	Long	Millisecond time format
	LastLoginTime	Long	Millisecond time format
	LastShowingLicViolationTime	Long	
	LastSuccessfulLoginInfo	JSON Object	Info about the successful login by the user including IP Address, application & time
	LdapSettings	JSON Object	
	Locked	Boolean	
	LockedByMFA	Boolean	Whether account is locked due too many MFA failure by wrong passcode
	LongLoginName	String	If user is owned by Sub-Admin the response will include the Username appended with Sub-Admin ID number (example, JohnDoe#12345)
	MailboxUsage	Integer	
	ModuleSettings	JSON Object	
	ModulesSettings	JSON Object	
	MoveUserHomeRecord	JSON Object	Record for moving User Home
	Name	String	User name
	NewBSetName	String	Backup Set name when Default Backup Set Name policy setting is disabled
	Notes	String	
	OpenDirectUsageCount	Integer	
	Owner	String	
	Owner	String	
	Password	String	Hashed password
	PasswordHistory	JSON Object	
	PreV7	Boolean	
	ProxySettings	JSON Object	
	Quota	Long	
	DestinationQuotaList	JSON Object (Array)	
	ReadOnly	Boolean	Unused
	RegistrationDate	Long	Timestamp of registration date
	RegistrationDate	Long	Timestamp in milliseconds time format
	RoutineJobsSetting	JSON Object	
	RunDirectQuota	Integer	
	RunDirectQuotaEnabled	Boolean	
	SavePassword	Boolean	
	SecurityIdentifier	String	For client to handle Schedule/CDP/Reminder in Windows
	SecuritySettings	JSON Object	V8.3 SecuritySetting Entity of the backup user including the phone list, whether individual MFA is enabled or not, etc.
	ServerSettings	JSON Object	Settings for returning to backup client only
	SimpleQuotaSize	Long	
	SoftwareUpdateSettings	JSON Object	
	Status	String	Suspended or Enable
	SuspendPaidUserData	String	Suspend Date for Paid/Trial User in YYYYMMDD
	Timezone	String	Refer to Appendix for timezone string / ID
	TopDir	String	Path to User Home
	TotalStatistics	JSON Object	
	TrialDays	Long	
	Type	String	TRIAL or PAID. Default to TRIAL if not specified
	Updated	Boolean	Whether user was updated in cache but not yet saved to users.xml
	UploadEncryptionKey	Boolean	
	UserHome	String	User Home path
	UserId	String	Client user name
	UserLockSettings	JSON Object	
	UserSuspendSettings	JSON Object	
	V6File	String	Path to v6 Profile.xml (regardless if CBS created user, or import)
	WindowsEventLogSettings	JSON Object	
DestinationQuotaList []			
	Key	Type	Descriptions
	Enabled	Boolean	true / false
	DestinationName	String	Name of the backup destination
	DestinationKey	String	ID of the backup destination, or "OBS" for quota on AhsayCBS
	Quota	Long	

ContactList []		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
Company	String	
Email	String	Example: <i>name@domain.com</i>
Address	String	Street address
EmailCertificate	String	
Website	String	
Name	String	
Phone1	String	
Phone2	String	
EncryptEmail	Boolean	
EmailReportSettings		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
SendBkpRpt	Boolean	
Usage	Long	
SmtpAuthUser	String	
ReportSenderEmail	String	
SendBkpRptMode	String	
SmtpHostName	String	
MissedBkpInterval	Long	
SmtpPort	String	
SendMissedBkpRpt	Boolean	
SendStorageAlert	Boolean	
SmtpAuthPwd	String	
Email	String	
Enabled	Boolean	
ForgetPasswordSettings		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
Token	String	Unused
RequestTime	Long	
ResetTime	Long	
GroupPolicySetting		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
UserGroupIDList	Array	Assigned User Group(s) ID
ExcludeNetworkShare	Boolean	Legacy. v6 Policy group option, not available to update/use in CBS
GroupQuota	Integer/Long	
UsedGroupQuota	Integer/Long	
FileSizeLimit	Long	
HostInfo		
Key	Type	Descriptions
Hosts	Array	CPU SocketNum = Integer Hostname = String

HostSet		
Key	Type	Descriptions
"string":"string"	String	Contains hostname of device installed with client. Example: """:" = no client agent Example: "mypc":"mypc" = client installed on host mypc
LastSuccessfulLoginInfo		
Key	Type	Descriptions
Type	String	OS + Browser, or Client Type
PhoneNumber	Long	If MFA
IpAddress	String	IP
Time	Long	Timestamp in millisecond time format
Id	Long	Timestamp in millisecond time format (Auto generate)
LdapSettings		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
LdapUser	Boolean	
LastDeleteTime	Long	
LastDisableTime	Long	
FirstAuthFailureTime	Long	
ModuleSettings		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
CDPEnabled	Boolean	
DeltaMergeEnabled	Boolean	
InFileDeltaEnabled	Boolean	Is feature enabled
LotusDominoBackupEnabled	Boolean	Is feature enabled
LotusNotesBackupEnabled	Boolean	Is feature enabled
MobileEnabled	Boolean	Is AhsayMOB enabled
MobileQuota	Long	Quota value for AhsayMOB
MSExchangeBackupEnabled	Boolean	Is feature enabled
MSExchangeDAGServerQuota	Long	Quota value
MSExchangeMailboxBackupEnabled	Boolean	Is Microsoft Exchange Mailbox feature enabled
MSExMailboxQuota	Long	Quota value for Microsoft Exchange Mailbox module
MSHyperVBackupEnabled	Boolean	Is feature enabled
MSHyperVVMQuota	Long	Quota value
MSHyperVVMQuotaType	String	Per GuestVM or Per Socket
MSSQLBackupEnabled	Boolean	Is feature enabled
MSWindowsSystemBackupEnabled	Boolean	Is feature enabled
MSWindowsSystemStateBackupEnabled	Boolean	Is feature enabled
MySQLBackupEnabled	Boolean	Is feature enabled
NasClientEnabled	Boolean	Is feature enabled
Office365MailEnabled	Boolean	Is feature enabled
Office365MailQuota	Long	Quota value
OpenDirectEnbaled	Boolean	Is feature enabled
OpenDirectQuota	Long	Quota value
OracleBackupEnabled	Boolean	Is feature enabled
QnapEnabled	Boolean	Is feature enabled
ShadowCopyEnabled	Boolean	Is feature enabled
ShadowProtectBackupEnabled	Boolean	Is feature enabled
VMwareBackupEnabled	Boolean	Is feature enabled
VMwareVMQuota	Long	Quota value
VMwareVMQuotaType	String	Per GuestVM or Per Socket

PasswordHistory		
Key	Type	Descriptions
ReadOnly	Boolean	Unused
PasswordLastModifiedTime	Long	
HistoryList	Array	
MoveUserHomeRecord		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
Dest	String	Destination User Home path
StartTime	Long	Millisecond time format
Source	String	Source User Home path
ProxySettings		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
Type	String	
Username	String	
Port	String	
Enabled	Boolean	
Host	String	
Password	String	
RoutineJobSettings		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
QuotaRemindPercentage	Long	
InactiveReportLastSentTime	Long	
SecuritySettings		
Key	Type	Descriptions
UserLockSettings	Object	
Id	String	
LastFailureTime	Long	
LockedTime	Long	
LoginFailureCount	Long	
PhoneList	Array	
Id	Long	
Verified	Boolean	
VerifiedTime	Long	
PhoneNumber	Long	
CountryCode	Long	
Enable	Boolean	
Id	String	Unused
SendLimitSettings	Object	
Id	String	
LastSendTime	Long	
SendCount	Integer	
RecoverySettings	Object	
Id	String	
Token	String	
ExpiryTime	Long	

TotalStatistics		
Key	Type	Descriptions
RetentionAreaUncompressedSize	Long	
DataAreaFileCount	Integer	
DataAreaUncompressedSize	Long	
DataAreaCompressedSize	Long	
RetentionAreaCompressedSize	Long	
RetentionAreaFileCount	Integer	
UserLockSettings		
Key	Type	Descriptions
Id	String	Unused
LastFailureTime	Long	
LockedTime	Long	
LoginFailureCount	Integer	
UserSuspendSettings		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
Enabled	Boolean	
Date	Long	Timestamp in millisecond time format
WindowsEventLogSettings		
Key	Type	Descriptions
Enabled	Boolean	
LogProfile	Boolean	
LogServices	Boolean	
LogUtilities	Boolean	
LogBackup	Boolean	
LogError	Boolean	
LogSoftwareUpdate	Boolean	
LogReport	Boolean	
LogLoginLogout	Boolean	
LogInfo	Boolean	
LogBuy	Boolean	
LogLicense	Boolean	
LogWarn	Boolean	
LogRestore	Boolean	
Id	String	Unused
ReadOnly	Boolean	Unused
Example:		
Input		
<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "username" }</pre>		
Output		
<pre>"Status": "OK", "Data": { "ReadOnly": false, "Updated": false, "ProxySettings": { "ReadOnly": false, "Enabled": false, "Port": "", "Host": "", "Type": "", "Password": "", "Username": "", "Id": "" } }</pre>		


```

},
"ComputerNameDirList": [
  "/usr/local/cbs_7_12.4/user/opendirect/db/ClientLogs/00-50-56-C0-00-01-Administrator"
],
"PreV7": false,
"HashedPassword": true,
"Dagbset": [],
"LdapSettings": {
  "ReadOnly": false,
  "LastDisableTime": -1,
  "FirstAuthFailureTime": -1,
  "Id": "",
  "LdapUser": false,
  "LastDeleteTime": -1,
},
"BsetOwnerCount": 1,
"Quota": 1073741824,
"SavePassword": false,
"DoubleEncodedName": "opendirect",
"SimpleQuotaSize": 1073741824,
"SecurityIdentifier": "S-1-5-21-2527513556-2540860317-3670937648-500",
"Timezone": "1097",
"NewBSetName": "BackupSet-1",
"Bandwidth": 0,
"Office365MailQuota": 0,
"ImportDate": 0,
"ForgotPasswordSettings": {
  "ReadOnly": false,
  "Id": "",
  "Token": "",
  "RequestTime": -1,
  "ResetTime": -1,
},
"AccessToken": "D4A0E4D832B74E9694C9B83012AB1243C842E0F4E6CC4947A7B7A7326FF509F6",
"SuspendPaidUserData": "20170716",
"HostQuota": 1,
"HostCount": 1,
"GroupPolicySettings": {
  "ReadOnly": false,
  "GroupQuota": 0,
  "UsedGroupQuota": 0,
  "FileSizeLimit": 0,
  "Id": "",
  "UserGroupIDList": [
    "1"
  ],
  "ExcludeNetworkShare": false,
},
"Notes": "",
"HostCount": 1,
"RegistrationDate": 1497578979897,
"ClientRunVersion": "7.12.4.0",
"UserLockSettings": {
  "ReadOnly": false,
  "LoginFailureCount": 0,
  "LastFailureTime": -1,
  "Id": "",
  "LockedTime": -1,
},
"EmailReportSettings": {
  "ReadOnly": false,
  "Enabled": false,
  "SendMissedBkpRpt": false,
  "SmtphAuthPwd": "",
  "SmtphAuthUser": "",
  "ReportSenderEmail": "",
  "SmtphPort": "",
  "SendStorageAlert": false,
  "Usage": 0,
  "SendBkpRpt": false,
  "Email": "",

```

```

"SendBkpRptMode": "",
"Id": "",
"SmtpHostName": "",
"MissedBkpInterval": 0,
},
"DestinationQuotaList": [
{
"ReadOnly": false,
"Enabled": false,
"DestinationKey": "OBS",
"Quota": 0,
}
],
"Id": "1497578979898",
"Locked": false,
"HostQuotaEnabled": false,
"TotalStatistics": {
"D": 0,
"E": 0,
"F": 0,
"A": 55920393,
"B": 55920392,
"C": 23
},
"ClientType": "OBM",
"V6File": "/usr/local/cbs_7_12.4/user/opendirect/db/Profile.xml",
"MailboxUsage": 0,
"Type": "TRIAL",
"Password": "ANBTv6/OToWAu38et4QF7roFCESDUCKB9qXb+iyiayk=",
"LongLoginName": "opendirect",
"UploadEncryptionKey": true,
"LastShowingLicViolationTime": -1,
"LastLoginTime": 1497788107994,
"HostInfo": "{\\"Hosts\\":{\\\\"CPU Socket Num\\":2,\\\\"Hostname\\":\\\\"VMwks10-w81\\\\"}}",
"PasswordHistory": {
"ReadOnly": false,
"HistoryList": [
{
"ReadOnly": false,
"Password": "ANBTv6/OToWAu38et4QF7roFCESDUCKB9qXb+iyiayk=",
"LastDisabledTime": -1,
}
]
},
"PasswordLastModifiedTime": 1497578979897,
"Id": "",
},
"FullName": null,
"SoftwareUpdateSettings": {
"ReadOnly": false,
"Enabled": true,
"Id": "",
},
"Hostname": "",
"Office365MailEnabled": false,
"HomeDir": "/usr/local/cbs_7_12.4/user/opendirect",
"RoutineJobSettings": {
"ReadOnly": false,
"QuotaRemindPercentage": 0,
"InactiveReportLastSentTime": -1,
"Id": "",
},
"Owner": "",
"ModuleSettings": {
"ReadOnly": false,
"VMwareBackupEnabled": false,
"ShadowCopyEnabled": false,
"MSHyperVVMQuota": 0,
"LotusDominoBackupEnabled": false,
"VMwareVMQuota": 0,
"MSExchangeDAGServerQuota": 0,
"Office365SharePointEnabled": false,

```

```

"MSExMailboxQuota": 0,
"MSHyperVBackupEnabled": false,
"OracleBackupEnabled": false,
"Office365MailEnabled": false,
"Office365MailQuota": 0,
"OpenDirectEnabled": true,
"InFileDeltaEnabled": false,
"VMwareVMQuotaType": "GUESTVM",
"MobileQuota": 0,
"MSSQLBackupEnabled": false,
"MSWindowsSystemStateBackupEnabled": false,
"OpenDirectQuota": 1,
"MSExchangeMailboxBackupEnabled": false,
"LotusNotesBackupEnabled": false,
"MySQLBackupEnabled": false,
"ShadowProtectBackupEnabled": false,
"MSHyperVVMQuotaType": "GUESTVM",
"Office365SharePointQuota": 0,
"MSExchangeBackupEnabled": false,
"Id": "",
"CDPEnabled": false,
"MobileEnabled": false,
"MSWindowsSystemBackupEnabled": false,
"NasClientEnabled": false,
"QnapEnabled": false,
"DeltaMergeEnabled": false
},
"EncodedName": "opendirect",
"File": "/usr/local/cbs_7_12.4/conf/users.xml",
"ServerSettings": null,
"RunDirectQuota": 1,
"UserId": "opendirect",
"HostSet": [
  "vmwks10-w81"
],
"Name": "opendirect",
"ContactList": [],
"Status": "ENABLE",
"TrialDays": 2592000000,
"UserSuspendSettings": {
  "ReadOnly": false,
  "Enabled": true,
  "Date": 1500170979897,
  "Id": ""
},
"Alias": "",
"RunDirectQuotaEnabled": false,
"AdGroups": [],
"Language": "en",
"LockedByMFA": false,
"LastSuccessfulLoginInfo": {
  "Type": "Windows / IE",
  "PhoneNumber": null,
  "IpAddress": "192.168.69.199",
  "Time": 1571191317707,
  "Id": "1571191317707"
},
"SecuritySettings": {
  "UserLockSettings": {
    "Id": "",
    "LastFailureTime": 1571125029625,
    "LockedTime": -1,
    "LoginFailureCount": 0
  },
  "PhoneList": [
    {
      "Verified": true,
      "VerifiedTime": 1571125059892,
      "PhoneNumber": "2128675309",
      "Id": "1571124054767",
      "CountryCode": 1
    }
  ]
}

```

```

    }
  },
  "Enable": true,
  "Id": "",
  "SendLimitSettings": {
    "LastSendTime": -1,
    "SendCount": 0,
    "Id": ""
  },
  "RecoverySettings": {
    "Token": "",
    "ExpiryTime": -1,
    "Id": ""
  }
},
"AdGroup": "",
"WindowsEventLogSettings": {
  "ReadOnly": false,
  "Enabled": false,
  "LogError": false,
  "LogProfile": false,
  "LogServices": false,
  "LogUtilities": false,
  "LogBackup": false,
  "LogReport": false,
  "LogSoftwareUpdate": false,
  "LogInfo": false,
  "LogLoginLogout": false,
  "LogBuy": false,
  "LogLicense": false,
  "LogWarn": false,
  "Id": "",
  "LogRestore": false,
},
"LastModified": 1497578442000,
}
}

```

v2 GetUser.do

To facilitate the Quota Management feature, a new version of the GetUser.do API (v2 GetUser.do) was introduced.

A new **QuotaList** JSON object (list of quota for multiple backup destinations) was introduced to replace the **Quota** parameter.

While AhsayCBS version 8.3 or above is backward compatible with API calls in previous format (v1 format), it is highly recommended to use the new version of the API instead (e.g. v2 GetUser.do).

URL:			
	https://BACKUP_SERVER/obs/api/json/2/GetUser.do		
Available since version:			
	8.3		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	Owner	String	
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	JSON Object	
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	User		
	Key	Type	Descriptions
	AccessToken	String	Client API token that used by OBC, should have no use to customer
	AdGroup	String	Legacy v6 Advertisement group (not used by CBS)
	AdGroups	Array	Legacy v6 Advertisement groups (not used by CBS)
	Alias	String	Alias
	BackupSetIdList	Array	ID number of each BackupSet
	Bandwidth	Long	
	ClientRunVersion	String	
	ClientType	String	ACB or OBM
	ComputerNameDirList	Array	Path to %USERHOME%/db/ClientLogs/
	ContactList	JSON Object ARRAY	
	DoubleEncodedName	String	
	EmailReportSettings	JSON Object	
	EncodedName	String	Encoded User Name
	File	String	Path to users.xml
	ForgotPAsswordSettings	JSON Object	
	FullName	String	For legacy v6 backup sets. The value is only set with the value of "LongLoginName" for get profile request received from Backup Client
	GroupPolicySettings	JSON Object	
	HashedPassword	Boolean	Legacy, unused by CBS
	HomeDir	String	User Home
	HostCount	Integer	Current client host limit in use
	HostInfo	JSON Object	Number of CPU in client computer of each Run on Client BackupSet and Owner of each Run on Client BackupSet
	Hostname	String	CBS server host name
	HostQuota	Long	Client host limit

HostQuotaEnabled	Boolean	
HostSet	JSON Object	
Id	Long	Millisecond time format
ImportDate	Long	Millisecond time format (0 = Not imported user)
Language	String	
LastClientLoginTime	Long	Millisecond time format
LastLoginTime	Long	Millisecond time format
LastShowingLicViolationTime	Long	
LastSuccessfulLoginInfo	JSON Object	Info about the successful login by the user including IP Address, application & time
LdapSettings	JSON Object	
Locked	Boolean	
LockedByMFA	Boolean	Whether account is locked due too many MFA failure by wrong passcode
LongLoginName	String	If user is owned by Sub-Admin the response will include the Username appended with Sub-Admin ID number (example, JohnDoe#12345)
MailboxUsage	Integer	
ModuleSettings	JSON Object	
ModulesSettings	JSON Object	
MoveUserHomeRecord	JSON Object	Record for moving User Home
Name	String	User name
NewBSetName	String	Backup Set name when Default Backup Set Name policy setting is disabled
Notes	String	
OpenDirectUsageCount	Integer	
Owner	String	
Owner	String	
Password	String	Hashed password
PasswordHistory	JSON Object	
PreV7	Boolean	
ProxySettings	JSON Object	
QuotaList	JSON Object (Array)	
ReadOnly	Boolean	Unused
RegistrationDate	Long	Timestamp of registration date
RegistrationDate	Long	Timestamp in milliseconds time format
RoutineJobsSetting	JSON Object	
RunDirectQuota	Integer	
RunDirectQuotaEnabled	Boolean	
SavePassword	Boolean	
SecurityIdentifier	String	For client to handle Schedule/CDP/Reminder in Windows
SecuritySettings	JSON Object	V8.3 SecuritySetting Entity of the backup user including the phone list, whether individual MFA is enabled or not, etc.
ServerSettings	JSON Object	Settings for returning to backup client only
SoftwareUpdateSettings	JSON Object	
Status	String	Suspended or Enable
SuspendPaidUserData	String	Suspend Date for Paid/Trial User in YYYYMMDD
Timezone	String	Refer to Appendix for timezone string / ID
TopDir	String	Path to User Home
TotalStatistics	JSON Object	
TrialDays	Long	
Type	String	TRIAL or PAID. Default to TRIAL if not specified
Updated	Boolean	Whether user was updated in cache but not yet saved to users.xml
UploadEncryptionKey	Boolean	
UserHome	String	User Home path
UserId	String	Client user name
UserLockSettings	JSON Object	
UserSuspendSettings	JSON Object	
V6File	String	Path to v6 Profile.xml (regardless if CBS created user, or import)
WindowsEventLogSettings	JSON Object	
QuotaList []		
Key	Type	Descriptions
Enabled	Boolean	true / false
DestinationName	String	Name of the backup destination
DestinationKey	String	ID of the backup destination, or "OBS" for quota on AhsayCBS
Quota	Long	

ContactList []		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
Company	String	
Email	String	Example: <i>name@domain.com</i>
Address	String	Street address
EmailCertificate	String	
Website	String	
Name	String	
Phone1	String	
Phone2	String	
EncryptEmail	Boolean	
EmailReportSettings		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
SendBkpRpt	Boolean	
Usage	Long	
SmtAuthUser	String	
ReportSenderEmail	String	
SendBkpRptMode	String	
SmtHostName	String	
MissedBkpInterval	Long	
SmtPort	String	
SendMissedBkpRpt	Boolean	
SendStorageAlert	Boolean	
SmtAuthPwd	String	
Email	String	
Enabled	Boolean	
ForgetPasswordSettings		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
Token	String	Unused
RequestTime	Long	
ResetTime	Long	
GroupPolicySetting		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
UserGroupIDList	Array	Assigned User Group(s) ID
ExcludeNetworkShare	Boolean	Legacy. v6 Policy group option, not available to update/use in CBS
GroupQuota	Integer/Long	
UsedGroupQuota	Integer/Long	
FileSizeLimit	Long	
HostInfo		
Key	Type	Descriptions
Hosts	Array	CPU Socket Num = Integer Hostname = String

HostSet		
Key	Type	Descriptions
"string"."string"	String	Contains hostname of device installed with client. Example: ""."" = no client agent Example: "mypc"."mypc" = client installed on host mypc
LastSuccessfulLoginInfo		
Key	Type	Descriptions
Type	String	OS + Browser, or Client Type
PhoneNumber	Long	If MFA
IpAddress	String	IP
Time	Long	Timestamp in millisecond time format
Id	Long	Timestamp in millisecond time format (Auto generate)
LdapSettings		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
LdapUser	Boolean	
LastDeleteTime	Long	
LastDisableTime	Long	
FirstAuthFailureTime	Long	
ModuleSettings		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
CDPEnabled	Boolean	
DeltaMergeEnabled	Boolean	
InFileDeltaEnabled	Boolean	Is feature enabled
LotusDominoBackupEnabled	Boolean	Is feature enabled
LotusNotesBackupEnabled	Boolean	Is feature enabled
MobileEnabled	Boolean	Is AhsayMOB enabled
MobileQuota	Long	Quota value for AhsayMOB
MSExchangeBackupEnabled	Boolean	Is feature enabled
MSExchangeDAGServerQuota	Long	Quota value
MSExchangeMailboxBackupEnabled	Boolean	Is Microsoft Exchange Mailbox feature enabled
MSExMailboxQuota	Long	Quota value for Microsoft Exchange Mailbox module
MSHyperVBackupEnabled	Boolean	Is feature enabled
MSHyperVVMQuota	Long	Quota value
MSHyperVVMQuotaType	String	Per GuestVM or Per Socket
MSSQLBackupEnabled	Boolean	Is feature enabled
MSWindowsSystemBackupEnabled	Boolean	Is feature enabled
MSWindowsSystemStateBackupEnabled	Boolean	Is feature enabled
MySQLBackupEnabled	Boolean	Is feature enabled
NasClientEnabled	Boolean	Is feature enabled
Office365MailEnabled	Boolean	Is feature enabled
Office365MailQuota	Long	Quota value
OpenDirectEnbaled	Boolean	Is feature enabled
OpenDirectQuota	Long	Quota value
OracleBackupEnabled	Boolean	Is feature enabled
QnapEnabled	Boolean	Is feature enabled
ShadowCopyEnabled	Boolean	Is feature enabled
ShadowProtectBackupEnabled	Boolean	Is feature enabled
VMwareBackupEnabled	Boolean	Is feature enabled
VMwareVMQuota	Long	Quota value
VMwareVMQuotaType	String	Per GuestVM or Per Socket

PasswordHistory		
Key	Type	Descriptions
ReadOnly	Boolean	Unused
PasswordLastModifiedTime	Long	
HistoryList	Array	
MoveUserHomeRecord		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
Dest	String	Destination User Home path
StartTime	Long	Millisecond time format
Source	String	Source User Home path
ProxySettings		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
Type	String	
Username	String	
Port	String	
Enabled	Boolean	
Host	String	
Password	String	
RoutineJobSettings		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
QuotaRemindPercentage	Long	
InactiveReportLastSentTime	Long	
SecuritySettings		
Key	Type	Descriptions
UserLockSettings	Object	
Id	String	
LastFailureTime	Long	
LockedTime	Long	
LoginFailureCount	Long	
PhoneList	Array	
Id	Long	
Verified	Boolean	
VerifiedTime	Long	
PhoneNumber	Long	
CountryCode	Long	
Enable	Boolean	
Id	String	Unused
SendLimitSettings	Object	
Id	String	
LastSendTime	Long	
SendCount	Integer	
RecoverySettings	Object	
Id	String	
Token	String	
ExpiryTime	Long	

TotalStatistics		
Key	Type	Descriptions
RetentionAreaUncompressedSize	Long	
DataAreaFileCount	Integer	
DataAreaUncompressedSize	Long	
DataAreaCompressedSize	Long	
RetentionAreaCompressedSize	Long	
RetentionAreaFileCount	Integer	
UserLockSettings		
Key	Type	Descriptions
Id	String	Unused
LastFailureTime	Long	
LockedTime	Long	
LoginFailureCount	Integer	
UserSuspendSettings		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
Enabled	Boolean	
Date	Long	Timestamp in millisecond time format
WindowsEventLogSettings		
Key	Type	Descriptions
Enabled	Boolean	
LogProfile	Boolean	
LogServices	Boolean	
LogUtilities	Boolean	
LogBackup	Boolean	
LogError	Boolean	
LogSoftwareUpdate	Boolean	
LogReport	Boolean	
LogLoginLogout	Boolean	
LogInfo	Boolean	
LogBuy	Boolean	
LogLicense	Boolean	
LogWarn	Boolean	
LogRestore	Boolean	
Id	String	Unused
ReadOnly	Boolean	Unused
Example:		
Input		
<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "username" }</pre>		
Output		
<pre>{ "Status": "OK", "Data": { "ReadOnly": false, "Updated": false, "ProxySettings": { "ReadOnly": false, "Enabled": false, "Port": "", "Host": "", "Type": "", "Password": "", "Username": "" } } }</pre>		

```

    "Id": "",
  },
  "ComputerNameDirList": [
    "/usr/local/cbs_7_12.4/user/opendirect/db/ClientLogs/00-50-56-C0-00-01-Administrator"
  ],
  "QuotaList": [
    {
      "Enabled": true,
      "Quota": 53687091200,
      "DestinationKey": "GDrive#16179501659537152591"
    },
    {
      "Enabled": true,
      "Quota": 53687091200,
      "DestinationName": "AhsayCBS",
      "DestinationKey": "OBS"
    },
    {
      "Enabled": true,
      "Quota": 53687091200,
      "DestinationName": "Predefine 1",
      "DestinationKey": "-1526366187317"
    },
    {
      "Enabled": false,
      "Quota": 0,
      "DestinationName": "AhsayCBS",
      "DestinationKey": "-1518496023533"
    }
  ],
  "PreV7": false,
  "HashedPassword": true,
  "Dagbset": [],
  "LdapSettings": {
    "ReadOnly": false,
    "LastDisableTime": -1,
    "FirstAuthFailureTime": -1,
    "Id": "",
    "LdapUser": false,
    "LastDeleteTime": -1,
  },
  "BsetOwnerCount": 1,
  "Quota": 1073741824,
  "SavePassword": false,
  "DoubleEncodedName": "opendirect",
  "SimpleQuotaSize": 1073741824,
  "SecurityIdentifier": "S-1-5-21-2527513556-2540860317-3670937648-500",
  "Timezone": "1097",
  "NewBSetName": "BackupSet-1",
  "Bandwidth": 0,
  "Office365MailQuota": 0,
  "ImportDate": 0,
  "ForgotPasswordSettings": {
    "ReadOnly": false,
    "Id": "",
    "Token": "",
    "RequestTime": -1,
    "ResetTime": -1
  },
  "AccessToken": "D4A0E4D832B74E9694C9B83012AB1243C842E0F4E6CC4947A7B7A7326FF509F6",
  "SuspendPaidUserDate": "20170716",
  "HostQuota": 1,
  "HostCount": 1,
  "GroupPolicySettings": {
    "ReadOnly": false,
    "GroupQuota": 0,
    "UsedGroupQuota": 0,
    "FileSizeLimit": 0,
    "Id": "",
    "UserGroupIDList": [
      "1"
    ]
  }
}

```

```

    },
    "ExcludeNetworkShare": false,
  },
  "Notes": "",
  "HostCount": 1,
  "RegistrationDate": 1497578979897,
  "ClientRunVersion": "7.12.4.0",
  "UserLockSettings": {
    "ReadOnly": false,
    "LoginFailureCount": 0,
    "LastFailureTime": -1,
    "Id": "",
    "LockedTime": -1,
  },
  "EmailReportSettings": {
    "ReadOnly": false,
    "Enabled": false,
    "SendMissedBkpRpt": false,
    "SmtAuthPwd": "",
    "SmtAuthUser": "",
    "ReportSenderEmail": "",
    "SmtPort": "",
    "SendStorageAlert": false,
    "Usage": 0,
    "SendBkpRpt": false,
    "Email": "",
    "SendBkpRptMode": "",
    "Id": "",
    "SmtHostName": "",
    "MissedBkpInterval": 0,
  },
  "DestinationQuotaList": [
    {
      "ReadOnly": false,
      "Enabled": false,
      "DestinationKey": "OBS",
      "Quota": 0,
    }
  ],
  "Id": "1497578979898",
  "Locked": false,
  "HostQuotaEnabled": false,
  "TotalStatistics": {
    "D": 0,
    "E": 0,
    "F": 0,
    "A": 55920393,
    "B": 55920392,
    "C": 23
  },
  "ClientType": "OBM",
  "V6File": "/usr/local/cbs_7_12.4/user/opendirect/db/Profile.xml",
  "MailboxUsage": 0,
  "Type": "TRIAL",
  "Password": "ANBTv6/OToWAu38et4QF7roFCESDUckB9qXb+iyiayk=",
  "LongLoginName": "opendirect",
  "UploadEncryptionKey": true,
  "LastShowingLicViolationTime": -1,
  "LastLoginTime": 1497788107994,
  "HostInfo": "{\"Hosts\":{\"CPUsocketNum\":2,\"Hostname\":\"VMwks10-w81\"}}",
  "PasswordHistory": {
    "ReadOnly": false,
    "HistoryList": [
      {
        "ReadOnly": false,
        "Password": "ANBTv6/OToWAu38et4QF7roFCESDUckB9qXb+iyiayk=",
        "LastDisabledTime": -1,
      }
    ]
  },
  "PasswordLastModifiedTime": 1497578979897,
  "Id": "",

```

```

},
"FullName": null,
"SoftwareUpdateSettings": {
  "ReadOnly": false,
  "Enabled": true,
  "Id": "",
},
"Hostname": "",
"Office365MailEnabled": false,
"HomeDir": "/usr/local/cbs_7_12.4/user/opendirect",
"RoutineJobSettings": {
  "ReadOnly": false,
  "QuotaRemindPercentage": 0,
  "InactiveReportLastSentTime": -1,
  "Id": "",
},
"Owner": "",
"ModuleSettings": {
  "ReadOnly": false,
  "VMwareBackupEnabled": false,
  "ShadowCopyEnabled": false,
  "MSHyperVVMQuota": 0,
  "LotusDominoBackupEnabled": false,
  "VMwareVMQuota": 0,
  "MSExchangeDAGServerQuota": 0,
  "Office365SharePointEnabled": false,
  "MSExMailboxQuota": 0,
  "MSHyperVBackupEnabled": false,
  "OracleBackupEnabled": false,
  "Office365MailEnabled": false,
  "Office365MailQuota": 0,
  "OpenDirectEnabled": true,
  "InFileDeltaEnabled": false,
  "VMwareVMQuotaType": "GUESTVM",
  "MobileQuota": 0,
  "MSSQLBackupEnabled": false,
  "MSWindowsSystemStateBackupEnabled": false,
  "OpenDirectQuota": 1,
  "MSExchangeMailboxBackupEnabled": false,
  "LotusNotesBackupEnabled": false,
  "MySQLBackupEnabled": false,
  "ShadowProtectBackupEnabled": false,
  "MSHyperVVMQuotaType": "GUESTVM",
  "Office365SharePointQuota": 0,
  "MSExchangeBackupEnabled": false,
  "Id": "",
  "CDPEnabled": false,
  "MobileEnabled": false,
  "MSWindowsSystemBackupEnabled": false,
  "NasClientEnabled": false,
  "QnapEnabled": false,
  "DeltaMergeEnabled": false
},
"EncodedName": "opendirect",
"File": "/usr/local/cbs_7_12.4/conf/users.xml",
"ServerSettings": null,
"RunDirectQuota": 1,
"UserId": "opendirect",
"HostSet": [
  "vmwks10-w81": "vmwks10-w81"
],
"Name": "opendirect",
"ContactList": [],
"Status": "ENABLE",
"TrialDays": 2592000000,
"UserSuspendSettings": {
  "ReadOnly": false,
  "Enabled": true,
  "Date": 1500170979897,
  "Id": "",
},

```

```

"Alias": "",
"RunDirectQuotaEnabled": false,
"AdGroups": [],
"Language": "en",
"AdGroup": "",
"LockedByMFA": false,
"LastSuccessfulLoginInfo": {
  "Type": "Windows / IE",
  "PhoneNumber": null,
  "IpAddress": "192.168.69.199",
  "Time": 1571191317707,
  "Id": "1571191317707"
},
"SecuritySettings": {
  "UserLockSettings": {
    "Id": "",
    "LastFailureTime": 1571125029625,
    "LockedTime": -1,
    "LoginFailureCount": 0
  },
  "PhoneList": [
    {
      "Verified": true,
      "VerifiedTime": 1571125059892,
      "PhoneNumber": "2128675309",
      "Id": "1571124054767",
      "CountryCode": 1
    }
  ],
  "Enable": true,
  "Id": "",
  "SendLimitSettings": {
    "LastSendTime": -1,
    "SendCount": 0,
    "Id": ""
  },
  "RecoverySettings": {
    "Token": "",
    "ExpiryTime": -1,
    "Id": ""
  }
},
"WindowsEventLogSettings": {
  "ReadOnly": false,
  "Enabled": false,
  "LogError": false,
  "LogProfile": false,
  "LogServices": false,
  "LogUtilities": false,
  "LogBackup": false,
  "LogReport": false,
  "LogSoftwareUpdate": false,
  "LogInfo": false,
  "LogLoginLogout": false,
  "LogBuy": false,
  "LogLicense": false,
  "LogWarn": false,
  "Id": "",
  "LogRestore": false,
},
"LastModified": 1497578442000,
}

```

4.1.10 ModifyUserStatus

This API can be used to modify a user account status to either enable or suspended. It cannot be used for trial user accounts which are suspended after they have exceeded the trial period.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [User Profile] > [General]

URL:			
	https://BACKUP_SERVER/obs/api/json/ModifyUserStatus.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	Owner	String	
	Status	String	"ENABLE" or "SUSPENDED"
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user1", "Status": "SUSPENDED" }		
	Output		
	{"Status": "OK"}		
	Output 2 User not exist		
	{ "Status": "Error", "Message": "[UserCacheManager.NoSuchUserExpt] User 'user1' not found.", "ExptType": "com.ahsay.obs.core.dbs.Y" }		

4.1.11 RemoveUser

This API removes a backup user.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user]

URL:			
	https://BACKUP_SERVER/obs/api/json/RemoveUser.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	To remove multiple users, join their login names, separated with "*", e.g. user1*user2*user3
	Owner	String	To remove multiple users, join their owner, separated with "*", e.g. owner1*owner2*owner3 If the owner is system admin, use a space as the owner name, e.g. " * * " This field is mandatory if multiple users are removed.
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user1*user2", "Owner": " * * " }		
	Output		
	{ "Status": "OK" }		

4.1.12 SendForgotPwdEmail

This API will send a forgot password email to a backup user who has forgot their login password, to allow them to reset their login password.

URL:			
	https://BACKUP_SERVER/obs/api/json/SendForgotPwdEmail.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	The value of this parameter can handle 1 user at a time.
	Owner	String	The value of this parameter can handle 1 user at a time.
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user1", }		
	Output		
	{ "Status": "OK" }		
Example: Login name is incorrect			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user1", }		
	Output		
	{ "Status": "Error", "Message": "[UserCacheManager.NoSuchUserExpt] User 'user1' not found.", "ExptType": "com.ahsay.obs.core.dbs.Y" }		

4.1.13 GetUserStatus.do

This API can be used to retrieve detail information of backup or restore job that is currently running.

The related settings can be found on the AhsayCBS web console:

🔗 [Monitoring] > [Live Activities] > [Backup user] > [Backup Status] OR [Restore Status]

URL:			
	https://BACKUP_SERVER/cbs/api/json/GetUserStatus.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	AhsayCBS's system users with admin role
	SysPwd	String	AhsayCBS's system users password with admin role
	Type	String	The value can be one of the followings: backup restore
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	BkpStatus	Array of BkpStatus	If input parameter type is "backup", array of BkpStatus is returned.
	RestoreStatus	Array of RestoreStatus	If input parameter type is "restore", array of RestoreStatus is returned.
	Message	String	Error message, it exists only if status is "Error".
	ExptType	String	The type of exception, it exists only if status is "Error".
JSON Objects:			
BkpStatus/ RestoreStatus			
	Key	Type	Descriptions
	ID	String	
	LoginName	String	Name of the backup account.
	Owner	String	Owner of the backup account.
	UserId	String	ID of the backup account.
	Alias	String	Alias of the backup account.
	UserType	String	User type. The value can be one of the following: Trial Paid
	ClientType	String	Backup client type. The value can be one of the following: OBM ACB

Type	String	<p>Backup set type.</p> <p>The value can be one of the following:</p> <p>FILE Cloud File Lotus Domino Lotus Notes Microsoft Exchange Server Microsoft Exchange Mail (MAPI) Microsoft SQL Server Microsoft Windows Virtualization Microsoft Windows System Backup MySQL Oracle Database Server ShadowProtect Bare Metal System State VMware Virtualization Office 365 Exchange Online</p>
BackupSet	String	Name of the backup set.
BackupSetID	String	ID of the backup set.
DestinationID	String	ID of the backup destination.
DestinationName	String	Name of the backup destination.
DestinationType	String	<p>Destination storage of the backup set.</p> <p>The value can be one of the following:</p> <p>Local / Mapped Drive / Removable Drive : Local Alibaba Cloud : Aliyun CTYun : CTYun Amazon S3 : S3 AWS S3 Compatible Cloud Storage : AWSCompatible Wasabi Backblaze Google Cloud Storage : GCS Google Drive : GDrive Microsoft Azure : Azure OneDrive : OneDrive OneDrive for Business : OneDrive4Biz Rackspace : Rackspace OpenStack : OpenStack Dropbox : Dropbox FTP : FTP SFTP : SFTP AhsayCBS : OBS Destination pool : Pooled</p> <p>For backup job with version 6 backup client: %EMPTY%</p>
OverallPercent	String	Progress of the backup job shown in percentage.
BackupStatus	String	Message type of the current stage of the backup job.
LastMessage	String	Last message reported during the backup job.
LastUpdateTime	String	Time of the last message reported during the backup job.
EstimatedTimeLeft	String	Estimated time to backup job completion.
SizeLeft	String	Data size left to be backed up.
UploadedSize	String	Data size of all uploaded data during the backup job.
TransferRate	String	Transfer rate measured at the moment.
CurrentFile	String	Current backup / restore file.
UploadedNumOfFiles	String	<p>Total number of files uploaded for BkpStatus (e.g. input "Type":"backup")</p> <p>or</p> <p>Total number of files downloaded for RestoreStatus (e.g. input "Type":"restore").</p>

	UploadedNumOfDirs	String	Total number of directories uploaded for BkpStatus (e.g. input "Type":"backup") or Total number of directories downloaded for RestoreStatus (e.g. input "Type":"restore").
	UploadedNumOfLinks	String	Total number of links uploaded for BkpStatus (e.g. input "Type":"backup") or Total number of links downloaded for RestoreStatus (e.g. input "Type":"restore").
	ElapsedTime	String	Elapsed time of the backup job.
	CurrentFilePercent	String	Upload percentage of the current file being backed up / restored.
	CurrentFileType	String	Current type. The value can be one of the following: Full Incremental Differential
	CurrentFileOperation	String	File operation list. The value can be one of the following: new update delete move file permission
	DeltaFile	String	Delta file path.
	DeltaFilePercent	String	Upload percentage of the current delta file.
	DeltaType	String	Deltas type. The value can be one of the following: Incremental Differential
	BackupJobID or RestoreJobID	String	Backup Job ID for BkpStatus (e.g. input "Type":"backup"), or Restore Job ID for RestoreStatus (e.g. input "Type":"restore"). ID in YYYY-MM-DD-hh-mm-ss format.

Example 1 ("Type": "backup"):

Input
<pre>{ "SysUser":"system", "SysPwd":"system", "Type":"backup" }</pre>
Output
<pre>{ "Status":"OK", "BkpStatus":[{ "SizeLeft":"943.94M", "DestinationType":"OBS", "LoginName":"username", "Type":"FILE", "DeltaFile":"", "LastUpdateTime":"07/10/2016 18:07:41", "DestinationName":"CBS", "CurrentFilePercent":"100", </pre>

	<pre> "ElapsedTime": "3 min 14 sec", "ID": "0", "CurrentFileOperation": "new", "LastMessage": "[1475834453800] [New File]... 100% of \\C:\\cbs-win7700.exe\\", "TransferRate": "29Mibit/s", "UploadedNumOfLinks": "0", "UploadedNumOfDirs": "4", "UserType": "PAID", "Owner": "", "DeltaType": "", "UploadedNumOfFiles": "1", "DeltaFilePercent": "0", "UploadedSize": "907.37M", "EstimatedTimeLeft": "4 min 19 sec", "CurrentFile": "C:\\cbs-win7700.exe", "UserId": "1475834105960", "BackupSet": "Test", "OverallPercent": "49", "Alias": "", "DestinationID": "1475834453800", "BackupSetID": "1475834388686", "BackupJobID": "2016-10-07-18-04-25", "BackupStatus": "info", "ClientType": "OBM", "CurrentFileType": "New File" } </pre>
--	---

Example 2 ("Type": "restore"):

Input	Output
<pre> { "SysUser": "system", "SysPwd": "system", "Type": "restore" } </pre>	<pre> { "Status": "OK", "RestoreStatus": [{ "SizeLeft": "1.67G", "DestinationType": "OBS", "LoginName": "username", "Type": "FILE", "DeltaFile": "", "LastUpdateTime": "07/10/2016 18:26:35", "DestinationName": "CBS", "CurrentFilePercent": "14", "ElapsedTime": "38 sec", "ID": "0", "CurrentFileOperation": "", "LastMessage": "Downloading... \\E:\\ Dest\\C_\\cbs-win7810.exe\" (Total 472.86M bytes)", "TransferRate": "54Mibit/s", "UploadedNumOfLinks": "0", "UploadedNumOfDirs": "0", "UserType": "PAID", "Owner": "", "DeltaType": "", "RestoreJobID": "2016-10-07-18-25-57", "UploadedNumOfFiles": "0", "DeltaFilePercent": "0", "UploadedSize": "131.25M", "EstimatedTimeLeft": "2 min 5 sec", "CurrentFile": "E:\\Dest\\C_\\cbs-win7500.exe", "UserId": "1475834105960", "BackupSet": "Test", "OverallPercent": "7", "Alias": "", "DestinationID": "1475834453800", "BackupSetID": "1475834388686", }] } </pre>

	<pre>"BackupStatus":"info", "ClientType":"OBM", "CurrentFileType":""}] }</pre>
--	--

4.2 Backup Set

4.2.1 UpdateBackupSet (v1,v2)

This API can be used to update settings of a backup set.

The related settings can be found on the AhsayCBS web console at:

- 🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set

v1 UpdateBackupSet.do

URL:			
	https://BACKUP_SERVER/obs/api/json/UpdateBackupSet.do		
Available since version:			
	8.5		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role.
	SysPwd	String	Password of an AhsayCBS system user with admin role.
	LoginName	String	Username of the backup user.
	BackupSetID	String	Obtainable by calling the ListBackupsets API.
	ReadOnly	Boolean	
	Class	String	com.ahsay.obx.cxp.obs.BackupSet
	Name	String	Backup set name
	ShadowCopyEnabled	Boolean	Enable Windows' Volume Shadow Copy for open file backup
	DeleteTempFile	String	Remove temporary files after backup
	LogRetentionDays	Integer	Number of days to keep the backup set log
	FollowLink	Boolean	Follow link of the backup files
	CompressType	String	The value can be one of the following: "GzipBestSpeedCompression" (Fast), "GzipDefaultCompression" (Normal), "SnappyDefaultCompression " (Optimal for local) Default to 'No Compression' if not provided
	LanDomain	String	Windows User Authentication domain/host name
	LanUsername	String	Windows User Authentication user name
	LanPassword	String	Windows User Authentication user password
	WorkingDir	String	Temporary Driectory for storing backup files
	UploadPermission	Boolean	Enable to backup permission attribute of files
	ReminderSettings	JSON Object	The reminder settings
	InFileDeltaSettings	Array	
	LocalCopySettings	Array	
	RetentionPolicySettings	Array	
	CdpSettingsV6	Array	
	CdpSettingsV7	Array	
	BandwidthControlSettings	Array	
	FilterSettings	Array	
	ScheduleSettings	Array	
	DestinationSettings	Array	
	SelectedSourceList	Array	Can be an array with local path (String type) and network address with credential (<i>NetworkAddress</i> type)
	DeselectedSourceList	Array	Can be an array with local path (String type) and network address with credential (<i>NetworkAddress</i> type)
	PreCommandList	Array	
	PostCommandList	Array	
	AllowedIPList	Array	
	AnplicationSettings	Array	

	DestinationList	Array	(optional)
	EnableOpenDirect	Boolean	Note: Cannot be changed once set
	NetworkAddress	JSON Object	Can be used in <i>SelectedSourceList</i> and <i>DeselectedSourceList</i>
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
ReminderSettings			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	BackupIntervalHour	Integer	00-23
	OfflineNotificationDay	Integer	This setting only applicable for v6 legacy backup users.
	OfflineBackupEnabled	Boolean	On-Off for offline backup reminder
	BackupIntervalDay	Integer	00-31
	ShowOfflineBackupReminder	Boolean	This setting only applicable for v6 legacy backup users.
	LogoutBackupReminderEnabled	Boolean	Enable/Disable backup reminder when windows log off or shut down.
	OfflineBackupReminderComputer Name	String	The computer name for the offline backup reminder
	LogoutBackupReminderComputerName	String	The computer name for logout backup reminder
InfileDeltaSettings			
	Key	Type	Descriptions
	Enabled	Boolean	
	ReadOnly	Boolean	
	MinDeltaFileSize	Long	Only apply In-File Delta to files larger than this size.
	MaxNumOfDelta	Long	Upload full file when number of deltas are over this number Highly recommended to choose one of the following value: 10 20 30 50 100
	MaxDeltaRatio	Long	Upload full file when delta file size / full file size is over this ratio. It can only be multiple of 5 of maximum 100.
	DefaultDeltaType	String	The value can be one of the following: I D
	WeeklyInFileDeltaSchedule	Array	Weekly variations for overriding default type
	MonthlyInFileDeltaSchedule	Array	Yearly variations for overriding default type and weekly variations
WeeklyInFileDeltaSchedule			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Day	Array	The array contains 7 Strings, which corresponds to the delta type from Sunday to Saturday. "I" for incremental delta on that day, "D" for differential delta on that day, and "" for full backup on that day.
MonthlyInFileDeltaSchedule			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Month	Array	The array contains 12 Strings, which corresponds to the delta type from January to December. "I" for incremental delta on that month, "D" for differential delta on that month, and "" for full backup on that month.
	Date	Integer	Day of selected months in yearly variations

	Criteria	String	The value can be one of the following: Weekday Weekend Sunday Monday Tuesday Wednesday Thursday Friday Saturday
	Occurrence	String	The value can be one of the following: First Second Third Fourth Last
LocalCopySettings			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Enabled	Boolean	This setting only applicable for v6 legacy backup users.
	DestinationPath	String	This setting only applicable for v6 legacy backup users.
	SetPermission	Boolean	This setting only applicable for v6 legacy backup users.
	SkipOffsiteBackup	Boolean	This setting only applicable for v6 legacy backup users.
	LocalCopyRetentionPolicySettings	Array	This setting only applicable for v6 legacy backup users.
	Zip	Boolean	This setting only applicable for v6 legacy backup users.
LocalCopyRetentionPolicySetting			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Enabled	Boolean	This setting only applicable for v6 legacy backup users.
	Period	Integer	This setting only applicable for v6 legacy backup users.
	Unit	String	This setting only applicable for v6 legacy backup users. The value can be one of the following: DAYS JOBS
RetentionPolicySettings			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Period	Integer	Keep the deleted files for this number of days
	OverlapSensitive	Boolean	
	Type	String	The value can be one of the following: SIMPLE ADVANCED
	Unit	String	The value can be one of the following: DAYS JOBS
	AdvancedRetentionPolicyList	Array	
AdvancedRetentionPolicy			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Id	Long	ID of the retention policy to update

	Type	String	The value can be one of the following: DAILY WEEKLY MONTHLY QUARTERLY YEARLY CUSTOM
	NumbersToKeep	Integer	Available to change when you choose the following type: DAILY WEEKLY MONTHLY QUARTERLY YEARLY
	Day	Integer	Available to change when you choose the following type: DAILY WEEKLY MONTHLY QUARTERLY YEARLY
	Week	Integer	Available to change when you choose the following type: DAILY WEEKLY MONTHLY QUARTERLY YEARLY
	Month	Integer	Available to change when you choose the following type: DAILY WEEKLY MONTHLY QUARTERLY YEARLY
	Year	Integer	Available to change when you choose the following type: CUSTOM
	DateType	String	It can be empty for daily or weekly retention policy, or one of the following: WEEK_OF_MONTH WEEK_OF_YEAR EXACT
	Sun, Mon, Tue, Wed, Thu, Fri, Sat	Boolean	For weekly custom retention policy
CdpSettings			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Enable	Boolean	
	Type	String	For CdpSettingsV6, the value can be one of the following: all-volume backup-source custom-source For CdpSettingsV7, the value is all-volume

	BackupType	String	<p>The value can be empty, or one of the following:</p> <p>DATABASE DIFFERENTIAL LOG SKIP POWEROFF</p> <p>For Oracle and Lotus Domino backup sets, the value must be DATABASE or LOG</p> <p>For MS SQL Server backup sets, the value must be DATABASE or DIFFERENTIAL</p> <p>For MS Exchange Server before 2007 and Shadow Protect backup sets, the value must be DATABASE, DIFFERENTIAL, or LOG</p> <p>For MS Exchange Server 2007 or above, the value must be DATABASE or LOG</p> <p>For VMware backup sets, if version is VMware Server 1 or VMware Player, the value must be SKIP or POWEROFF</p>
	MinUpdateInterval	Integer	
	TimeMarkInterval	Integer	
	MaxFileSize	Integer	<p>Only apply to files smaller than</p> <p>20 50 100 500 1000 unlimited</p>
	ComputerName	String	Run CDP on computers named
	ExcludeSystemFiles	Boolean	
	FilterList	Array	
	Version	String	For CdpSettingsV7, the value is 7
	CdpBackupControlSettings	Array	This setting only applicable for v6 legacy backup users.
	SelectedSourceList	Array	
	Id	Array	V6 for CdpSettingV6 / v7 for CdpSettingV7
	CdpBackupControlSettings		
	Key	Type	Descriptions
	ReadOnly	Boolean	This setting only applicable for v6 legacy backup users.
	ConsiderCpuUsage	Boolean	This setting only applicable for v6 legacy backup users.
	CpuUsage	Integer	This setting only applicable for v6 legacy backup users.
	ConsiderInput	Boolean	This setting only applicable for v6 legacy backup users.
	ObserveInputForSecond	Integer	This setting only applicable for v6 legacy backup users.
	ConsiderNetworkTraffic	Boolean	This setting only applicable for v6 legacy backup users.
	NetworkTraffic	Long	This setting only applicable for v6 legacy backup users.
	BandwidthControlSettings		
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Enabled	Boolean	
	BandwidthControlList	Array	
	Mode	String	<p>The value can be one of the following:</p> <p>independent share</p>

BandwithControl		
Key	Type	Descriptions
ReadOnly	Boolean	
Name	String	
Id	Long	
MaxTransferRateInBitsPerSec	Long	
StartDay	Integer	
StartHour	Integer	
StartMinute	Integer	
EndDay	Integer	
EndHour	Integer	
EndMinute	Integer	
FilterSettings		
Key	Type	Descriptions
ReadOnly	Boolean	
Enabled	Boolean	
FilterList	Array	
FilterList		
Key	Type	Descriptions
ReadOnly	Boolean	
Name	String	Name of the filter
Id	Long	Id of the filter, obtainable in GetBacupSet API
TopDir	String	Apply fileter to a specific directory only
@class	String	com.ahsay.obx.cxp.obs.Filter
ApplyToDir	Boolean	Apply filters to directory
Type	String	The value can be one of the following: START_WITH END_WITH CONTAIN CUSTOM
Include	Boolean	For each of the matched files/folders under top directory: Exclude or include them
Only	Boolean	If it is set to true, it will not include all unmatched files/folders If it is set to false, it will include all unmatched files/folders
PatternList	Array	
MatchPatternAgainstFullPathOnly	Boolean	
Username	String	Support UNC paths with non-Windows credentials as backup source
Password	String	Support UNC paths with non-Windows credentials as backup source
Pattern		
Key	Type	Descriptions
ReadOnly	Boolean	
Pattern	String	
ApplicationSettings		
Key	Type	Descriptions
ReadOnly	Boolean	
@class	String	The value can be one of the following: com.ahsay.obx.cxp.cloud.FileSettings com.ahsay.obx.cxp.cloud.LotusDominoSettings com.ahsay.obx.cxp.cloud.LotusNotesSettings com.ahsay.obx.cxp.cloud.MSExchangeSettings com.ahsay.obx.cxp.cloud.MSExMailboxSettings com.ahsay.obx.cxp.cloud.MSSQLSettings com.ahsay.obx.cxp.cloud.MSHypervSettings com.ahsay.obx.cxp.cloud.MSWindowsSystemSettings com.ahsay.obx.cxp.cloud.MySQLSettings

			com.ahsay.obx.cxp.cloud.OracleSettings com.ahsay.obx.cxp.cloud.ShadowProtectSettings com.ahsay.obx.cxp.cloud.MSWindowsSystemStateSettings com.ahsay.obx.cxp.cloud.VMwareSettings com.ahsay.obx.cxp.cloud.Office365ExchangeOnlineSettings com.ahsay.obx.cxp.cloud.CloudFileSettings com.ahsay.obx.cxp.cloud.MariaDBSettings
	Id	String	
	Version	String	
	WindowsOutlook	Boolean	Backup source shortcut to Outlook Applicable for File backup set only.
	WindowsDesktop	Boolean	Backup source shortcut to Desktop Applicable for File backup set only.
	WindowsOutlookExpress	Boolean	Backup source shortcut for Outlook Express Applicable for File backup set only.
	WindowsMail	Boolean	Backup source shortcut to Windows Mail Applicable for File backup set only.
	WindowsFavourites	Boolean	Backup source shortcut to Favourites Applicable for File backup set only.
	WindowsMyDocuments	Boolean	Backup source shortcut to My Document Applicable for File backup set only.
	NotesIniPath	String	Path to notes.ini Applicable for IBM Lotus Domino / IBM Lotus Notes backup set only.
	BackupSystemState	Boolean	Applicable for MS Exchange Server backup set only.
	LoginID	String	Login ID of sa / system account Applicable for MS SQL Server / Oracle Database Server backup set only.
	Password	String	Password of sa / system / root account Applicable for MS SQL Server / MySQL / Oracle / MariaDB Database Server / VMware backup set only.
	Server	String	SQL Server instance Applicable for MS SQL Server backup set only.
	BackupTarget	String	Temporary storage location of the MS Windows System / System State backup set Applicable for MS Windows System / System State backup set only.
	Port	Integer	Listening port of the MySQL / Oracle / MariaDB Database Server Port to the VMware hypervisor Applicable for MySQL / Oracle / MariaDB Database Server / VMware backup set only.
	Host	String	Hostname or IP to the MySQL / Oracle / MariaDB Database Server, or VMware hypervisor Applicable for MySQL / Oracle / MariaDB Database Server / VMware backup set only.
	Username	String	Username of root account Applicable for MySQL / VMware / MariaDB backup set only.
	MysqldumpPath	String	Applicable for MySQL / MariaDB backup set only.
	LastArchivedLogName	String	Applicable for Oracle Database Server backup set only.
	Sid	String	Oracle SID Applicable for Oracle Database Server backup set only.
	EncryptionAlgorithm	String	Applicable for ShadowProtect System backup set only.
	EncryptionPassword	String	Applicable for ShadowProtect System backup set only.
	InstallLocation	String	Applicable for ShadowProtect System backup set only.
	Sshport	Integer	Applicable for VMware backup set only.
	AutoEnableCBT	Boolean	Applicable for VMware backup set only.
	OneDrive	Boolean	Applicable for Office 365 backup set only.

	PublicFolders	Boolean	Applicable for Office 365 backup set only.
	SiteCollections	Boolean	Applicable for Office 365 backup set only.
	Outlook	Boolean	Applicable for Office 365 backup set only.
	ScheduleSettings		
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Enable	Boolean	
	ComputerName	String	
	DailyScheduleList	Array	
	WeeklyScheduleList	Array	
	MonthlyScheduleList	Array	
	CustomScheduleList	Array	

	DailyScheduleList		
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Name	String	Name of the schedule
	Id	Long	ID of the schedule, obtainable in GetbackupSets API
	Hour	Integer	Refer to HH. The schedule will start backup at HH:MM
	Minute	Integer	Refer to MM. The schedule will start backup at HH:MM
	Duration	Integer	(optional) If no value is specified default value = -1 The value can be one of the following: until full backup completed = -1 stop backup after xx hours = 1 to 24
	BackupType	String	The value can be empty, or one of the following: DATABASE DIFFERENTIAL LOG SKIP POWEROFF For Oracle and Lotus Domino backup sets, the value must be DATABASE or LOG For MS SQL Server backup sets, the value must be DATABASE or DIFFERENTIAL For MS Exchange Server before 2007 and Shadow Protect backup sets, the value must be DATABASE, DIFFERENTIAL, or LOG For MS Exchange Server 2007 or above, the value must be DATABASE or LOG For VMware backup sets, if version is VMware Server 1 or VMware Player, the value must be SKIP or POWEROFF
	SpaceFreeUpEnabled	Boolean	Remove obsolete files from backup destination according to retention policy
	LastUpdateTime	Long	
	@class	String	com.ahsay.obx.cxp.obs.DailySchedule
	MigratedFromCdp	Boolean	True indicate it is migrated from CDP, this value cannot be changed

WeeklyScheduleList		
Key	Type	Descriptions
ReadOnly	Boolean	
Name	String	Name of the schedule
Id	Long	Id of the schedule, obtainable in GetBackupSet API
Hour	Integer	Refer to HH. The schedule will start backup at HH:MM
Minute	Integer	Refer to MM. The schedule will start backup at HH:MM
Duration	Integer	(optional) If no value is specified default value = -1 The value can be one of the following: until full backup completed = -1 stop backup after xx hours = 1 to 24
BackupType	String	Refer to "BackupType" of DailySchedule
Days	Array	The array contains 7 boolean values that correspond to Sunday to Saturday. If the boolean value is true, backup will be run on that day.
SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
LastUpdateTime	Long	
@class	String	com.ahsay.obx.cxp.obs.WeeklySchedule
MonthlyScheduleList		
Key	Type	Descriptions
ReadOnly	Boolean	
Name	String	
Id	Long	Id of the schedule, obtainable in GetBackupSet API
Hour	Integer	Refer to HH. The schedule will start backup at HH:MM
Minute	Integer	Refer to MM. The schedule will start backup at HH:MM
BackupType	String	Refer to "BackupType" of DailySchedule
Duration	Integer	
Occurrence	String	The value can be one of the following: First Second Third Fourth Last
Criteria	String	The value can be one of the following: Sunday Monday Tuesday Wednesday Thursday Friday Saturday Weekday Weekend
SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
LastUpdateTime	Long	
@class	String	com.ahsay.obx.cxp.obs.MonthlySchedule

CustomScheduleList		
Key	Type	Descriptions
ReadOnly	Boolean	
Name	String	
Id	Long	ID of the schedule, obtainable in GetBackupset API
Hour	Integer	Refer to HH. The schedule will start backup at HH:MM
Minute	Integer	Refer to MM. The schedule will start backup at HH:MM
Duration	Integer	(optional) If no value is specified default value = -1 The value can be one of the following: until full backup completed = -1 stop backup after xx hours = 1 to 24
Date	String	In yyyy-MM-dd format Backup on this day once
BackupType	String	Refer to "BackupType" of DailySchedule
SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
LastUpdateTime	Long	
@class	String	com.ahsay.obx.cxp.obs.CustomSchedule

Command		
Key	Type	Descriptions
ReadOnly	Boolean	
Name	String	
Command	String	
Type	String	The value can be one of the following: Pre Post
Id	Long	Id of the command, obtainable in GetBackupSet API
WorkingDir	String	
Username	String	Support UNC paths with non-Windows credentials as backup source
Password	String	Support UNC paths with non-Windows credentials as backup source
AllowedIP		
Key	Type	Descriptions
ReadOnly	Boolean	
Id	Long	Id of the command, obtainable in GetBackupSet API
StartIP	String	
EndIP	String	
DestinationSettings		
Key	Type	Descriptions
ReadOnly	Boolean	
DestinationList	Array	
Destination		
Key	Type	Descriptions
ReadOnly	Boolean	
Id	Long	Id of the destination, obtainable in GetBackupSet API
Name	String	
TopDir	String	

@class	String	<p>The value can be one of the following:</p> <p>com.ahsay.obx.cxp.obs.LocalDestination com.ahsay.obx.cxp.obs.AmazonS3Destination com.ahsay.obx.cxp.obs.AWSCompatibleDestination com.ahsay.obx.cxp.obs.GoogleCloudStorageDestination com.ahsay.obx.cxp.obs.GoogleDriveDestination com.ahsay.obx.cxp.obs.WindowsAzureDestination com.ahsay.obx.cxp.obs.OneDriveDestination com.ahsay.obx.cxp.obs.OpenStackDestination com.ahsay.obx.cxp.obs.RackspaceDestination com.ahsay.obx.cxp.obs.DropboxDestination com.ahsay.obx.cxp.obs.FtpDestination com.ahsay.obx.cxp.obs.SftpDestination com.ahsay.obx.cxp.obs.ObsDestination com.ahsay.obx.cxp.obs.PooledDestination com.ahsay.obx.cxp.obs.AliyunDestination com.ahsay.obx.cxp.obs.BackblazeDestination com.ahsay.obx.cxp.obs.WasabiDestination</p>
Type	String	<p>The value can be one of the following:</p> <p>Local CloudDrive S3 AWSCompatible Wasabi Backblaze GCS GDrive Azure OneDrive OpenStack Rackspace Dropbox FTP SFTP OBS Pooled Aliyun Exchange</p>
UserName	String	
Password	String	
HostName	String	
Port	String	
AccessKey	String	
Location	String	
DestinationKey	String	
Secret	String	
UserID	String	
Token	String	
ClientId	String	
UserDisplayName	String	
ClientSecret	String	
Region	String	
TenantID	String	
AppFolderName	String	
UsingSSL	Boolean	
UsingProxy	Boolean	
DestinationList	Array	
NetworkAddress		
Key	Type	Descriptions
Src	String	
Username	String	
Password	String	

Example:**Input - To update an Office 365 online destination**

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%",
  "LoginName": "user",
  "BackupSetID": "1447039383123",
  "ApplicationSettings": {
    "@class": "com.ahsay.obx.cxp.cloud.Office365ExchangeOnlineSettings",
    "RunOnServer": true,
    "Destination": {
      "@class": "com.ahsay.obx.cxp.obs.Office365ExchangeOnlineDestination",
      "Type": "Exchange",
      "Password": "QgsSo/AkSjvTlOOVjcF/W9dcqxQKiFnVql/A9Le/N0ujmNADgWipLghpjS0Zzlcm",
      "DataMigrationMappingMergedToIndex": false,
      "MultiAccounts": true,
      "UserName": "abc@ahsay.com",
      "DestinationKey": "Exchange#abc@ahsay.com",
      "Id": "1472441724123",
    },
  },
}
```

Example:**Input - To update a CBS destination**

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%",
  "LoginName": "user",
  "BackupSetID": "1447039383821",
  "DestinationSettings": {
    "DestinationList": [{
      "Name": "CBS",
      "@class": "com.ahsay.obx.cxp.obs.ObsDestination",
      "Type": "OBS"
    }
  ]
}
```

Example:**Input - To update a Weekly In-file Delta setting**

```
{
  "SysUser": "system",
  "SysPwd": "system",
  "LoginName": "test",
  "BackupSetID": "1498728005287",
  "InFileDeltaSettings": {
    "Enabled": true,
    "MinDeltaFileSize": "30",
    "MaxNumOfDelta": "200",
    "MaxDeltaRatio": "55",
    "DefaultDeltaType": "I",
    "WeeklyInFileDeltaSchedule": {
      "Day": ["I", "D", "I", "D", "I", "D", "I"]
    }
  },
}
```

Example:**Input - To update a Monthly In-file Delta setting**

```
{
  "SysUser":"system",
  "SysPwd":"system",
  "LoginName":"test",
  "BackupSetID":"1498728005287",
  "InFileDeltaSettings":{
    "Enabled":true,
    "MinDeltaFileSize":"30",
    "MaxNumOfDelta":"200",
    "MaxDeltaRatio":"55",
    "DefaultDeltaType":"I",
    "MonthlyInFileDeltaSchedule":{
      "Month":["D","I","D","I","D","I","D","I","D","I","D"],
      "Date":"3"
    }
  }
}
```

Example:**Input - To update a Simple retention policy**

```
{
  "SysUser":"system",
  "SysPwd":"system",
  "LoginName":"test",
  "BackupSetID":"1498728005287",
  "RetentionPolicySettings":{
    "Period":"3",
    "Type":"SIMPLE",
    "Unit":"JOBS"
  }
}
```

Example:**Input - To update an Advanced Daily retention policy**

```
{
  "SysUser":"system",
  "SysPwd":"system",
  "LoginName":"test",
  "BackupSetID":"1498728005287",
  "RetentionPolicySettings":{
    "Type":"ADVANCED",
    "AdvancedRetentionPolicyList":[{
      "Id":"1498792738486",
      "Type":"DAILY",
      "NumbersToKeep":"3",
    }
  ]
}
}
```

Example:**Input - To update an Advanced Weekly retention policy**

```
{
  "SysUser":"system",
  "SysPwd":"system",
  "LoginName":"test",
  "BackupSetID":"1498728005287",
  "RetentionPolicySettings":{
    "Period":"3",
    "Type":"ADVANCED",
    "Unit":"JOBS",
    "AdvancedRetentionPolicyList":[{
      "Id":"1498792367943",
      "Type":"WEEKLY",
      "NumbersToKeep":"3",
      "Mon":"true"
    }]
  }
}
```

Example:**Input - To update an Advanced Monthly retention policy**

```
{
  "SysUser":"system",
  "SysPwd":"system",
  "LoginName":"test",
  "BackupSetID":"1498728005287",
  "RetentionPolicySettings":{
    "Type":"ADVANCED",
    "AdvancedRetentionPolicyList":[{
      "Id":"1498792747423",
      "Type":"MONTHLY",
      "Day":"12",
      "NumbersToKeep":"3",
    }]
  }
}
```

Example:**Input - To update an Advanced Custom retention policy**

```
{
  "SysUser":"system",
  "SysPwd":"system",
  "LoginName":"test",
  "BackupSetID":"1498728005287",
  "RetentionPolicySettings":{
    "Type":"ADVANCED",
    "AdvancedRetentionPolicyList":[{
      "Id":"1498792796814",
      "Type":"CUSTOM",
      "Month":5,
      "Day":1,
      "Year":2016,
    }]
  }
}
```

Example:**Input - To update a bandwidth control setting**

```
{
  "SysUser":"system",
  "SysPwd":"system",
  "LoginName":"test",
  "BackupSetID":"1498728005287",
  "BandwidthControlSettings":{
    "Enabled":true,
    "Mode":"Share",
    "BandwidthControlList":[
      {
        "Name":"ban1",
        "Id":"1498795406838",
        "MaxTransferRateInBitsPerSec":"25600000",
      }
    ]
  }
}
```

Example:**Input - To update a filter setting**

```
{
  "SysUser":"system",
  "SysPwd":"system",
  "LoginName":"test",
  "BackupSetID":"1498728005287",
  "FilterSettings":{
    "Enabled":true,
    "FilterList":[
      {
        "Name":"update",
        "Id":"1498795942916",
        "TopDir":"C:\\test",
        "ApplyToDir":"false",
        "PatternList":[
          {"Pattern":".txt"},
          {"Pattern":".png"}
        ]
      }
    ]
  }
}
```

Example:	
	Input - To update a daily schedule and custom schedule settings
	<pre>{ "SysUser":"system", "SysPwd":"system", "LoginName":"test", "BackupSetID":"1498728005287", "ScheduleSettings":{ "Enable":true, "DailyScheduleList":[{ "Id":"1498800708798", "Hour":12, "Minute":30 }], "CustomScheduleList":[{ "Id":"1498801790021", "Hour":12, "Minute":30, "Date":"2017-07-01" }] } }</pre>
	Output
	<pre>{ "Status":"OK" }</pre>

Example:	
	Input - To update a OpenDirect setting
	<pre>{ "SysUser":"system", "SysPwd":"system", "LoginName":"test", "BackupSetID":"1498728005287", "EnableOpenDirect":false }</pre>
	Output - OK is returned by no change was made
	<pre>{ "Status":"OK" }</pre>

Note: The OpenDirect setting cannot be changed once it was enabled when creating backupset. Create a new backup set if you need to disable OpenDirect for your backup set.

Snippet Example:

Input - To update MariaDB type Backup Sets

```
{
  "SysUser": "system",
  "SysPwd": "system",
  "LoginName": "dbaccount",
  "BackupSetID": "1498728105278",

  ...

  "ApplicationSettings": {
    "@class": "com.ahsay.obx.cxp.cloud.MariaDBSettings",
    "Username": "dbuser",
    "Version": "",
    "Port": "2342",
    "Host": "127.0.0.1",
    "Id": "",
    "MysqldumpPath": "/",
    "Password": ""
  },
  ...
}
```

v2 UpdateBackupSet.do

URL:			
https://BACKUP_SERVER/obs/api/json/2/UpdateBackupSet.do			
Available since version:			
8.5			
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role.
	SysPwd	String	Password of an AhsayCBS system user with admin role.
	LoginName	String	Username of the backup user.
	BackupSetID	String	Obtainable by calling the ListBackupsets API.
	ReadOnly	Boolean	
	Class	String	com.ahsay.obx.cxp.obs.BackupSet
	Name	String	Backup set name
	ShadowCopyEnabled	Boolean	Enable Windows' Volume Shadow Copy for open file backup
	DeleteTempFile	String	Remove temporary files after backup
	LogRetentionDays	Integer	Number of days to keep the backup set log
	FollowLink	Boolean	Follow link of the backup files
	CompressType	String	The value can be one of the following: "GzipBestSpeedCompression" (Fast), "GzipDefaultCompression" (Normal), "SnappyDefaultCompression " (Optimal for local) Default to 'No Compression' if not provided
	LanDomain	String	Windows User Authentication domain/host name
	LanUsername	String	Windows User Authentication user name
	LanPassword	String	Windows User Authentication user password
	WorkingDir	String	Temporary Driectory for storing backup files
	UploadPermission	Boolean	Enable to backup permission attribute of files
	ReminderSettings	Array	
	InFileDeltaSettings	Array	
	LocalCopySettings	Array	
	RetentionPolicySettings	Array	
	CdpSettingsV6	Array	
	CdpSettingsV7	Array	
	BandwidthControlSettings	Array	
	FilterSettings	Array	
	ScheduleSettings	Array	
	DestinationSettings	Array	
	SelectedSourceList	Array	Can be an array with local path (String type) and network address with credential (<i>NetworkAddress</i> type)
	DeselectedSourceList	Array	Can be an array with local path (String type) and network address with credential (<i>NetworkAddress</i> type)
	PreCommandList	Array	
	PostCommandList	Array	
	AllowedIPList	Array	
	ApplicationSettings	Array	
	DestinationList	Array	(optional)
	EnableOpenDirect	Boolean	Note: Cannot be changed once set
	NetworkAddress	JSON Object	Can be used in <i>SelectedSourceList</i> and <i>DeselectedSourceList</i>
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"

JSON Objects:		
ReminderSettings		
Key	Type	Descriptions
ReadOnly	Boolean	
BackupIntervalHour	Integer	00-23
OfflineNotificationDay	Integer	This setting only applicable for v6 legacy backup users.
OfflineBackupEnabled	Boolean	On-Off for offline backup reminder
BackupIntervalDay	Integer	00-31
ShowOfflineBackupReminder	Boolean	This setting only applicable for v6 legacy backup users.
LogoutBackupReminderEnabled	Boolean	Enable/Disable backup reminder when windows log off or shut down.
OfflineBackupReminderComputer Name	String	The computer name for the offline backup reminder
InfileDeltaSettings		
Key	Type	Descriptions
Enabled	Boolean	
ReadOnly	Boolean	
MinDeltaFileSize	Long	Only apply In-File Delta to files larger than this size.
MaxNumOfDelta	Long	Upload full file when number of deltas are over this number Highly recommended to choose one of the following value: 10 20 30 50 100
MaxDeltaRatio	Long	Upload full file when delta file size / full file size is over this ratio. It can only be multiple of 5 of maximum 100.
DefaultDeltaType	String	The value can be one of the following: I D
WeeklyInFileDeltaSchedule	Array	Weekly variations for overriding default type
MonthlyInFileDeltaSchedule	Array	Yearly variations for overriding default type and weekly variations
WeeklyInFileDeltaSchedule		
Key	Type	Descriptions
ReadOnly	Boolean	
Day	Array	The array contains 7 Strings, which corresponds to the delta type from Sunday to Saturday. "I" for incremental delta on that day, "D" for differential delta on that day, and "" for full backup on that day.
MonthlyInFileDeltaSchedule		
Key	Type	Descriptions
ReadOnly	Boolean	
Month	Array	The array contains 12 Strings, which corresponds to the delta type from January to December. "I" for incremental delta on that month, "D" for differential delta on that month, and "" for full backup on that month.
Date	Integer	Day of selected months in yearly variations
Criteria	String	The value can be one of the following: Weekday Weekend Sunday Monday Tuesday Wednesday Thursday Friday Saturday

	Occurrence	String	The value can be one of the following: First Second Third Fourth Last
	LocalCopySettings		
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Enabled	Boolean	This setting only applicable for v6 legacy backup users.
	DestinationPath	String	This setting only applicable for v6 legacy backup users.
	SetPermission	Boolean	This setting only applicable for v6 legacy backup users.
	SkipOffsiteBackup	Boolean	This setting only applicable for v6 legacy backup users.
	LocalCopyRetentionPolicySettings	Array	This setting only applicable for v6 legacy backup users.
	Zip	Boolean	This setting only applicable for v6 legacy backup users.
	LocalCopyRetentionPolicySetting		
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Enabled	Boolean	This setting only applicable for v6 legacy backup users.
	Period	Integer	This setting only applicable for v6 legacy backup users.
	Unit	String	This setting only applicable for v6 legacy backup users. The value can be one of the following: DAYS JOBS
	RetentionPolicySettings		
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Period	Integer	Keep the deleted files for this number of days
	OverlapSensitive	Boolean	
	Type	String	The value can be one of the following: SIMPLE ADVANCED
	Unit	String	The value can be one of the following: DAYS JOBS
	AdvancedRetentionPolicyList	Array	
	AdvancedRetentionPolicy		
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Id	Long	ID of the retention policy to update
	Type	String	The value can be one of the following: DAILY WEEKLY MONTHLY QUARTERLY YEARLY CUSTOM
	NumbersToKeep	Integer	Available to change when you choose the following type: DAILY WEEKLY MONTHLY QUARTERLY YEARLY

	Day	Integer	Available to change when you choose the following type: DAILY WEEKLY MONTHLY QUARTERLY YEARLY
	Week	Integer	Available to change when you choose the following type: DAILY WEEKLY MONTHLY QUARTERLY YEARLY
	Month	Integer	Available to change when you choose the following type: DAILY WEEKLY MONTHLY QUARTERLY YEARLY
	Year	Integer	Available to change when you choose the following type: CUSTOM
	DateType	String	It can be empty for daily or weekly retention policy, or one of the following: WEEK_OF_MONTH WEEK_OF_YEAR EXACT
	Sun, Mon, Tue, Wed, Thu, Fri, Sat	Boolean	For weekly custom retention policy
CdpSettings			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Enable	Boolean	
	Type	String	For CdpSettingsV6, the value can be one of the following: all-volume backup-source custom-source For CdpSettingsV7, the value is all-volume
	BackupType	String	The value can be empty, or one of the following: DATABASE DIFFERENTIAL LOG SKIP POWEROFF For Oracle and Lotus Domino backup sets, the value must be DATABASE or LOG For MS SQL Server backup sets, the value must be DATABASE or DIFFERENTIAL For MS Exchange Server before 2007 and Shadow Protect backup sets, the value must be DATABASE, DIFFERENTIAL, or LOG For MS Exchange Server 2007 or above, the value must be DATABASE or LOG For VMware backup sets, if version is VMware Server 1 or VMware Player, the value must be SKIP or POWEROFF

	MinUpdateInterval	Integer	
	TimeMarkInterval	Integer	
	MaxFileSize	Integer	Only apply to files smaller than 20 50 100 500 1000 unlimited
	ComputerName	String	Run CDP on computers named
	ExcludeSystemFiles	Boolean	
	FilterList	Array	
	Version	String	For CdpSettingsV7, the value is 7
	CdpBackupControlSettings	Array	This setting only applicable for v6 legacy backup users.
	SelectedSourceList	Array	
	Id	Array	V6 for CdpSettingV6 / v7 for CdpSettingV7
CdpBackupControlSettings			
	Key	Type	Descriptions
	ReadOnly	Boolean	This setting only applicable for v6 legacy backup users.
	ConsiderCpuUsage	Boolean	This setting only applicable for v6 legacy backup users.
	CpuUsage	Integer	This setting only applicable for v6 legacy backup users.
	ConsiderInput	Boolean	This setting only applicable for v6 legacy backup users.
	ObserveInputForSecond	Integer	This setting only applicable for v6 legacy backup users.
	ConsiderNetworkTraffic	Boolean	This setting only applicable for v6 legacy backup users.
	NetworkTraffic	Long	This setting only applicable for v6 legacy backup users.
BandwidthControlSettings			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Enabled	Boolean	
	BandwidthControlList	Array	
	Mode	String	The value can be one of the following: independent share
BandwithControl			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Name	String	
	Id	Long	
	MaxTransferRateInBitsPerSec	Long	
	StartDay	Integer	
	StartHour	Integer	
	StartMinute	Integer	
	EndDay	Integer	
	EndHour	Integer	
	EndMinute	Integer	
FilterSettings			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Enabled	Boolean	
	FilterList	Array	

FilterList		
Key	Type	Descriptions
ReadOnly	Boolean	
Name	String	Name of the filter
Id	Long	Id of the filter, obtainable in GetBackupSet API
TopDir	String	Apply fileter to a specific directory only
@class	String	com.ahsay.obx.cxp.obs.Filter
ApplyToDir	Boolean	Apply filters to directory
Type	String	The value can be one of the following: START_WITH END_WITH CONTAIN CUSTOM
Include	Boolean	For each of the matched files/folders under top directory: Exclude or include them
Only	Boolean	If it is set to true, it will not include all unmatched files/folders If it is set to false, it will include all unmatched files/folders
PatternList	Array	
MatchPatternAgainstFullPathOnly	Boolean	
Username	String	Support UNC paths with non-Windows credentials as backup source
Password	String	Support UNC paths with non-Windows credentials as backup source
Pattern		
Key	Type	Descriptions
ReadOnly	Boolean	
Pattern	String	
ApplicationSettings		
Key	Type	Descriptions
ReadOnly	Boolean	
@class	String	The value can be one of the following: com.ahsay.obx.cxp.cloud.FileSettings com.ahsay.obx.cxp.cloud.LotusDominoSettings com.ahsay.obx.cxp.cloud.LotusNotesSettings com.ahsay.obx.cxp.cloud.MSExchangeSettings com.ahsay.obx.cxp.cloud.MSExMailboxSettings com.ahsay.obx.cxp.cloud.MSSQLSettings com.ahsay.obx.cxp.cloud.MSHypervSettings com.ahsay.obx.cxp.cloud.MSWindowsSystemSettings com.ahsay.obx.cxp.cloud.MySQLSettings com.ahsay.obx.cxp.cloud.OracleSettings com.ahsay.obx.cxp.cloud.ShadowProtectSettings com.ahsay.obx.cxp.cloud.MSWindowsSystemStateSettings com.ahsay.obx.cxp.cloud.VMwareSettings com.ahsay.obx.cxp.cloud.Office365ExchangeOnlineSettings com.ahsay.obx.cxp.cloud.CloudFileSettings com.ahsay.obx.cxp.cloud.MariaDBSettings
Id	String	
Version	String	
WindowsOutlook	Boolean	Backup source shortcut to Outlook Applicable for File backup set only.
WindowsDesktop	Boolean	Backup source shortcut to Desktop Applicable for File backup set only.
WindowsOutlookExpress	Boolean	Backup source shortcut for Outlook Express Applicable for File backup set only.
WindowsMail	Boolean	Backup source shortcut to Windows Mail Applicable for File backup set only.
WindowsFavourites	Boolean	Backup source shortcut to Favourites Applicable for File backup set only.

WindowsMyDocuments	Boolean	Backup source shortcut to My Document Applicable for File backup set only.
NotesIniPath	String	Path to notes.ini Applicable for IBM Lotus Domino / IBM Lotus Notes backup set only.
BackupSystemState	Boolean	Applicable for MS Exchange Server backup set only.
LoginID	String	Login ID of sa / system account Applicable for MS SQL Server / Oracle Database Server backup set only.
Password	String	Password of sa / system / root account Applicable for MS SQL Server / MySQL / Oracle / MariaDB Database Server / VMware backup set only.
Server	String	SQL Server instance Applicable for MS SQL Server backup set only.
BackupTarget	String	Temporary storage location of the MS Windows System / System State backup set Applicable for MS Windows System / System State backup set only.
Port	Integer	Listening port of the MySQL / Oracle Database Server Port to the VMware hypervisor Applicable for MySQL / Oracle / MariaDB Database Server / VMware backup set only.
Host	String	Hostname or IP to the MySQL / Oracle / MariaDB Database Server, or VMware hypervisor Applicable for MySQL / Oracle / MariaDB Database Server / VMware backup set only.
Username	String	Username of root account Applicable for MySQL / VMware / MariaDB backup set only.
MysqldumpPath	String	Applicable for MySQL / MariaDB backup set only.
LastArchivedLogName	String	Applicable for Oracle Database Server backup set only.
Sid	String	Oracle SID Applicable for Oracle Database Server backup set only.
EncryptionAlgorithm	String	Applicable for ShadowProtect System backup set only.
EncryptionPassword	String	Applicable for ShadowProtect System backup set only.
InstallLocation	String	Applicable for ShadowProtect System backup set only.
Sshport	Integer	Applicable for VMware backup set only.
AutoEnableCBT	Boolean	Applicable for VMware backup set only.
OneDrive	Boolean	Applicable for Office 365 backup set only.
PublicFolders	Boolean	Applicable for Office 365 backup set only.
SiteCollections	Boolean	Applicable for Office 365 backup set only.
Outlook	Boolean	Applicable for Office 365 backup set only.
ScheduleSettings		
Key	Type	Descriptions
ReadOnly	Boolean	
Enable	Boolean	
ComputerName	String	
DailyScheduleList	Array	
WeeklyScheduleList	Array	
MonthlyScheduleList	Array	
CustomScheduleList	Array	

DailyScheduleList		
Key	Type	Descriptions
ReadOnly	Boolean	
Name	String	Name of the schedule
Id	Long	ID of the schedule, obtainable in GetBackupSets API
Hour	Integer	Refer to HH. The schedule will start backup at HH:MM
Minute	Integer	Refer to MM. The schedule will start backup at HH:MM
Duration	Integer	(optional) If no value is specified default value = -1 The value can be one of the following: until full backup completed = -1 stop backup after xx hours = 1 to 24
BackupType	String	The value can be empty, or one of the following: DATABASE DIFFERENTIAL LOG SKIP POWEROFF For Oracle and Lotus Domino backup sets, the value must be DATABASE or LOG For MS SQL Server backup sets, the value must be DATABASE or DIFFERENTIAL For MS Exchange Server before 2007 and Shadow Protect backup sets, the value must be DATABASE, DIFFERENTIAL, or LOG For MS Exchange Server 2007 or above, the value must be DATABASE or LOG For VMware backup sets, if version is VMware Server 1 or VMware Player, the value must be SKIP or POWEROFF
SpaceFreeUpEnabled	Boolean	Remove obsolete files from backup destination according to retention policy
LastUpdateTime	Long	
@class	String	com.ahsay.obx.cxp.obs.DailySchedule
MigratedFromCdp	Boolean	True indicate it is migrated from CDP, this value cannot be changed
BackupInterval	Integer	Support periodic schedule backup for all backup set types The value can be -1 or one of the following: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60, 120, 180, 240, 360, 480, 720 (-1 means periodic schedule is disabled that it is a normal schedule.)
WeeklyScheduleList		
Key	Type	Descriptions
ReadOnly	Boolean	
Name	String	Name of the schedule
Id	Long	Id of the schedule, obtainable in GetBackupSet API
Hour	Integer	Refer to HH. The schedule will start backup at HH:MM
Minute	Integer	Refer to MM. The schedule will start backup at HH:MM
Duration	Integer	(optional) If no value is specified default value = -1 The value can be one of the following: until full backup completed = -1 stop backup after xx hours = 1 to 24
BackupType	String	Refer to "BackupType" of DailySchedule

	Days	Array	The array contains 7 boolean values that correspond to Sunday to Saturday. If the boolean value is true, backup will be run on that day.
	SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
	LastUpdateTime	Long	
	@class	String	com.ahsay.obx.cxp.obs.WeeklySchedule
	BackupInterval	Integer	Support periodic schedule backup for all backup set types The value can be -1 or one of the following: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60, 120, 180, 240, 360, 480, 720 (-1 means periodic schedule is disabled that it is a normal schedule.)
MonthlyScheduleList			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Name	String	
	Id	Long	Id of the schedule, obtainable in GetBackupSet API
	Hour	Integer	Refer to HH. The schedule will start backup at HH:MM
	Minute	Integer	Refer to MM. The schedule will start backup at HH:MM
	BackupType	String	Refer to "BackupType" of DailySchedule
	Duration	Integer	
	Occurrence	String	The value can be one of the following: First Second Third Fourth Last
	Criteria	String	The value can be one of the following: Sunday Monday Tuesday Wednesday Thursday Friday Saturday Weekday Weekend
	SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
	LastUpdateTime	Long	
	@class	String	com.ahsay.obx.cxp.obs.MonthlySchedule
CustomScheduleList			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Name	String	
	Id	Long	ID of the schedule, obtainable in GetBackupset API
	Hour	Integer	Refer to HH. The schedule will start backup at HH:MM
	Minute	Integer	Refer to MM. The schedule will start backup at HH:MM
	Duration	Integer	(optional) If no value is specified default value = -1 The value can be one of the following: until full backup completed = -1 stop backup after xx hours = 1 to 24
	Date	String	In yyyy-MM-dd format Backup on this day once
	BackupType	String	Refer to "BackupType" of DailySchedule

	SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
	LastUpdateTime	Long	
	@class	String	com.ahsay.obx.cxp.obs.CustomSchedule

Command			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Name	String	
	Command	String	
	Type	String	The value can be one of the following: Pre Post
	Id	Long	Id of the command, obtainable in GetBackupSet API
	WorkingDir	String	
	Username	String	Support UNC paths with non-Windows credentials as backup source
	Password	String	Support UNC paths with non-Windows credentials as backup source
AllowedIP			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Id	Long	Id of the command, obtainable in GetBackupSet API
	StartIP	String	
	EndIP	String	
DestinationSettings			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	DestinationList	Array	
Destination			
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Id	Long	Id of the destination, obtainable in GetBackupSet API
	Name	String	
	TopDir	String	
	@class	String	The value can be one of the following: com.ahsay.obx.cxp.obs.LocalDestination com.ahsay.obx.cxp.obs.AmazonS3Destination com.ahsay.obx.cxp.obs.AWSCCompatibleDestination com.ahsay.obx.cxp.obs.GoogleCloudStorageDestination com.ahsay.obx.cxp.obs.GoogleDriveDestination com.ahsay.obx.cxp.obs.WindowsAzureDestination com.ahsay.obx.cxp.obs.OneDriveDestination com.ahsay.obx.cxp.obs.OpenStackDestination com.ahsay.obx.cxp.obs.RackspaceDestination com.ahsay.obx.cxp.obs.DropboxDestination com.ahsay.obx.cxp.obs.FtpDestination com.ahsay.obx.cxp.obs.SftpDestination com.ahsay.obx.cxp.obs.ObsDestination com.ahsay.obx.cxp.obs.PooledDestination com.ahsay.obx.cxp.obs.AliyunDestination com.ahsay.obx.cxp.obs.BackblazeDestination com.ahsay.obx.cxp.obs.WasabiDestination

	Type	String	The value can be one of the following: Local CloudDrive S3 AWSCompatible Wasabi Backblaze GCS GDrive Azure OneDrive OpenStack Rackspace Dropbox FTP SFTP OBS Pooled Aliyun Exchange
	UserName	String	
	Password	String	
	HostName	String	
	Port	String	
	AccessKey	String	
	Location	String	
	DestinationKey	String	
	Secret	String	
	UserID	String	
	Token	String	
	ClientId	String	
	UserDisplayName	String	
	ClientSecret	String	
	Region	String	
	TenantID	String	
	AppFolderName	String	
	UsingSSL	Boolean	
	UsingProxy	Boolean	
	DestinationList	Array	
	NetworkAddress		
	Key	Type	Descriptions
	Src	String	
	Username	String	
	Password	String	

Note: The OpenDirect setting cannot be changed once it was enabled when creating backupset. Create a new backup set if you need to disable OpenDirect for your backup set.

Snippet Example:

Input - To update MariaDB type Backup Sets

```
{
  "SysUser": "system",
  "SysPwd": "system",
  "LoginName": "dbaccount",
  "BackupSetID": "1498728105278",

  ...

  "ApplicationSettings": {
    "@class": "com.ahsay.obx.cxp.cloud.MariaDBSettings",
    "Username": "dbuser",
    "Version": "",
    "Port": "2342",
    "Host": "127.0.0.1",
    "Id": "",
    "MysqldumpPath": "/",
    "Password": ""
  },
  ...
}
```

4.2.2 AddSelectSrc

This API can be used to add additional backup source to a backup set.

The related settings can be found on the AhsayCBS web console:

- 🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Source]

URL:			
	https://BACKUP_SERVER/obs/api/json/AddSelectSrc.do		
Available since version:			
	8.3.4.0		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	User name
	BackupSetID	String	Obtainable in ListBackupsets API
	SelectedSrc	Array of SourceBean	One or multiple Source paths, as an array of "Src"
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
SourceBean			
	Key	Type	Descriptions
	Src	String	Note: Special characters for JAVA must be escaped, for example, "\" must be replaced with "\\\" Example, "Src": "Office 365/Users/John.Deere@ahsay.com/Outlook/Inbox" Example, "Src": "C:\\Testing1\\data"
	Username	String	If username and password are empty, add the 'src' without credential.
	Password	String	If username and password are empty, add the 'src' without credential.
Example:			
Input			
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1447039383821", "SelectedSrc": [{"Src": "C:\\New1"}, {"Src": "C:\\New2\\data"}] }		
Output			
	{ "Status": "OK" }		

Example:	
	Input with incorrect escape character (e.g. C:\ instead of C:\\)
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1447039383821", "SelectedSrc": [{ "Src": "C:\New1" }] }</pre>
	Output
	<pre>{ "Status": "Error", "Message": "[Error] Parameter Src is null/empty!", "ExptType": "com.ahsay.obs.core.dbs.c" }</pre>
Example:	
	Input with incorrect escape character dividing sub-directory (e.g. \ instead of \\)
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1447039383821", "SelectedSrc": [{ "Src": "C:\\New1\data" }] }</pre>
	Output
	<pre>{ "Status": "Error", "Message": "[Error] Parameter SysUser is null!", "ExptType": "java.io.IOException" }</pre>

4.2.3 RemoveSelectSrc

This API allows you to remove selected source from a backupset. Running that backup set again will no longer backup those file from the removed source.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Source]

URL:			
	https://BACKUP_SERVER/obs/api/json/RemoveSelectSrc.do		
Available since version:			
	8.3		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable in ListBackupsets API
	Src	String or Array of String	One or multiple Source paths Note: Special characters for JAVA must be escaped, for example, "\"" must be replaced with "\\\""
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input (Single String)		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462427376949", "Src": "C:\\New1" }		
	Output		
	{ "Status": "OK" }		
Example:			
	Input (Array of Strings)		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462427376949", "Src": ["C:\\test\\data", "C:\\New1"] }		
	Output		
	{ "Status": "OK" }		

4.2.4 AddDeselectSrc

This API allows you to add deselected source to a backupset.
Running that backupset will no longer backup files from deselected source.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set]
> Choose a backup set > [Source]

URL:			
	https://BACKUP_SERVER/obs/api/json/AddDeselectSrc.do		
Available since version:			
	8.3		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable in ListBackupsets API
	DeselectedSrc	Array of SourceBean	One or multiple Source paths, as an array of "Src"
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	SourceBean		
	Key	Type	Descriptions
	Src	String	Note: Special characters for JAVA must be escaped, for example, "\" must be replaced with "\\\" Example, "Src": "C:\\New1\\data"
	Username	String	If username and password are empty, add the 'src' without credential.
	Password	String	If username and password are empty, add the 'src' without credential.
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1447039383821", "DeselectedSrc": [{"Src": "C:\\New2"}] }		
	Output		
	{ "Status": "OK" }		

Example:**Input**

```
{  
  "SysUser": "api_user",  
  "SysPwd": "abc123$%",  
  "LoginName": "user",  
  "BackupSetID": "1447039383821",  
  "DeselectedSrc": [ {"Src": "C:\\New1"}, {"Src": "C:\\New2"} ]  
}
```

Output

```
{"Status": "OK"}
```


4.2.5 RemoveDeselectSrc

This API allows you remove deselected source from a backupset.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Source]

URL:			
	https://BACKUP_SERVER/obs/api/json/RemoveDeselectSrc.do		
Available since version:			
	8.3.4.0		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable in ListBackupset API
	Src	String or Array of String	Note: Special characters for JAVA must be escaped, for example, "\" must be replaced with "\\
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input (Single Strings)		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462427376949", "Src": "C:\\New2" }		
	Output		
	{ "Status": "OK" }		
Example:			
	Input (Array of Strings)		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462427376949", "Src": ["C:\\test\\data", "C:\\New1"] }		
	Output		
	{ "Status": "OK" }		

4.2.6 AddSchedule (v1,v2)

This API creates new backup schedule settings on a backup set.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Backup Schedule]

v1 AddSchedule.do

URL:			
	https://BACKUP_SERVER/obs/api/json/AddSchedule.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable in ListBackupsets API
	Name	String	Schedule name
	Type	String	The value can be one of the following: DAILY WEEKLY MONTHLY CUSTOM
	BackupType	String	The value can be empty, or one of the following: DATABASE DIFFERENTIAL LOG SKIP POWEROFF For Oracle and Lotus Domino backup set, the value must be DATABASE or LOG For MS SQL Server backup set, the value must be DATABASE or DIFFERENTIAL For Exchange Server (Exchange 2003) backup set and Shadow Protect backup set, the value must be DATABASE, DIFFERENTIAL, or LOG For Exchange Server backup set (Exchange 2007 or above), the value must be DATABASE or LOG For VMware backup sets, if version is VMware Server 1 or VMware Player, the value must be SKIP or POWEROFF
	Time	TimeBean Object	
	FullBackup	Boolean	If it is true, the schedule backup will run until full backup completed. Otherwise, it will be stopped after the duration specified in key "Duration" of the TimeBean in key "Time"
	BackupInterval	Integer	

	SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
	SkipBackupEnabled	Boolean	
	WeekSchedule	WeekSchedule	Mandatory for weekly schedule
	MonthSchedule	MonthSchedule	Mandatory for monthly schedule
	CustomSchedule	CustomSchedule	Mandatory for custom schedule
	MonthlyDateType	String	Mandatory for monthly schedule. The value can be one of the following: DATE CRITERIA
	Period	String	(Optional) The following values can be set: AM PM If the parameter "Period" is specified as AM or PM then the parameter "Hour" is in 12-hour format. "1", "2",..."12" can be set. If the parameter "Period" is not specified, then the parameter "Hour" will default to 24-hour format. "0", "1"... "23" can be set.
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	TimeBean		
	Key	Type	Descriptions
	Hour	Integer	
	Minute	Integer	
	Duration	Integer	(optional) If no value is specified default value = -1 The value can be one of the following: until full backup completed = -1 stop backup after xx hours = 1 to 24
	WeekSchedule		
	Key	Type	Descriptions
	Sun	Boolean	
	Mon	Boolean	
	Tue	Boolean	
	Wed	Boolean	
	Thu	Boolean	
	Fri	Boolean	
	Sat	Boolean	
	MonthSchedule		
	Key	Type	Descriptions
	Occurrence	String	The value can be one of the following: First Second Third Fourth Last

	Criteria		The value can be one of the following: Sunday Monday Tuesday Wednesday Thursday Friday Saturday Weekday Weekend
	Date	Integer	
	CustomSchedule		
	Key	Type	Descriptions
	Year	Integer	In yyyy format
	Month	Integer	In MM format
	Day	Integer	In dd format
Example:			
	Input Daily schedule		
	<pre>{ "SysUser":"api_user", "SysPwd":"abc123\$%", "LoginName":"user", "BackupSetID": "1462500845713", "Name":"DAILYTEST", "Type":"DAILY", "FullBackup":true, "Time" : { "Hour":21, "Minute":30 }, "SpaceFreeUpEnabled":true, "SkipBackupEnabled":true }</pre>		
	Output		
	<pre>{"Status":"OK"}</pre>		

Example:	
	Input Weekly schedule
	<pre> { "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462500845713", "Name": "WEEKLYTEST", "Type": "WEEKLY", "FullBackup": true, "Time": { "Hour": 08, "Minute": 00 }, "SpaceFreeUpEnabled": true, "SkipBackupEnabled": true, "WeekSchedule": { "Sun": true, "Mon": true, "Tue": true, "Wed": false, "Thu": false, "Fri": true, "Sat": true } } </pre>
	Output
	<pre> {"Status": "OK"} </pre>

Example:	
	Input Monthly schedule
	<pre> { "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462500845713", "Name": "MONTHLYTEST", "Type": "MONTHLY", "FullBackup": true, "Time": { "Hour": 19, "Minute": 15 }, "SpaceFreeUpEnabled": true, "SkipBackupEnabled": true, "MonthSchedule": { "Occurrence": "First", "Criteria": "Friday" }, "MonthlyDateType": "CRITERIA" } </pre>
	Output
	<pre> {"Status": "OK"} </pre>

Example:**Input Custom schedule**

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%",
  "LoginName": "user",
  "BackupSetID": "1462500845713",
  "Name": "CUSTOMTEST",
  "Type": "CUSTOM",
  "FullBackup": true,
  "Time": {
    "Hour": 22,
    "Minute": 45
  },
  "SpaceFreeUpEnabled": true,
  "SkipBackupEnabled": true,
  "CustomSchedule": {
    "Year": 2016,
    "Month": 06,
    "Day": 12
  }
}
```

Output

```
{"Status": "OK"}
```

v2 AddSchedule.do

URL:			
https://BACKUP_SERVER/obs/api/json/2/AddSchedule.do			
Available since version:			
8.3.4.0			
Parameters:			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS system user with admin role	
SysPwd	String	Password of an AhsayCBS system user with admin role	
LoginName	String	Client user name	
BackupSetID	String	Obtainable in ListBackupsets API	
Name	String	Schedule name	
Type	String	The value can be one of the following: DAILY WEEKLY MONTHLY CUSTOM	
BackupType	String	The value can be empty, or one of the following: DATABASE DIFFERENTIAL LOG SKIP POWEROFF For Oracle and Lotus Domino backup set, the value must be DATABASE or LOG For MS SQL Server backup set, the value must be DATABASE or DIFFERENTIAL For Exchange Server (Exchange 2003) backup set and Shadow Protect backup set, the value must be DATABASE, DIFFERENTIAL, or LOG For Exchange Server backup set (Exchange 2007 or above), the value must be DATABASE or LOG For VMware backup sets, if version is VMware Server 1 or VMware Player, the value must be SKIP or POWEROFF	
Time	TimeBean Object	Mandatory if "BackupInterval" < 0	
FullBackup	Boolean	If it is true, the schedule backup will run until full backup completed. Otherwise, it will be stopped after the duration specified in key "Duration" of the TimeBean in key "Time". Must be <i>true</i> when "BackupInterval" > 0	
BackupInterval	Integer		
SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy	
SkipBackupEnabled	Boolean		
WeekSchedule	WeekSchedule	Mandatory for weekly schedule	
MonthSchedule	MonthSchedule	Mandatory for monthly schedule	
CustomSchedule	CustomSchedule	Mandatory for custom schedule	
MonthlyDateType	String	Mandatory for monthly schedule. The value can be one of the following: DATE CRITERIA	

	Period	String	<p>(Optional)</p> <p>The following values can be set: AM PM</p> <p>If the parameter "Period" is specified as AM or PM then the parameter "Hour" is in 12-hour format. "1", "2",..."12" can be set.</p> <p>If the parameter "Period" is not specified, then the parameter "Hour" will default to 24-hour format. "0", "1"... "23" can be set.</p>
	BackupInterval	Integer	<p>Support periodic schedule backup for all backup set types</p> <p>The value can be -1 or one of the following: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60, 120, 180, 240, 360, 480, 720 (-1 means periodic schedule is disabled that it is a normal schedule.)</p>

Return Values:

Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

JSON Objects:

	TimeBean	
Key	Type	Descriptions
Hour	Integer	
Minute	Integer	
Duration	Integer	<p>(optional) If no value is specified default value = -1</p> <p>The value can be one of the following:</p> <p>until full backup completed = -1 stop backup after xx hours = 1 to 24</p> <p>Must be -1 when "BackupInterval" > 0</p>

	WeekSchedule	
Key	Type	Descriptions
Sun	Boolean	
Mon	Boolean	
Tue	Boolean	
Wed	Boolean	
Thu	Boolean	
Fri	Boolean	
Sat	Boolean	

	MonthSchedule	
Key	Type	Descriptions
Occurrence	String	<p>The value can be one of the following:</p> <p>First Second Third Fourth Last</p>

	Criteria		The value can be one of the following: Sunday Monday Tuesday Wednesday Thursday Friday Saturday Weekday Weekend
	Date	Integer	
	CustomSchedule		
	Key	Type	Descriptions
	Year	Integer	In yyyy format
	Month	Integer	In MM format
	Day	Integer	In dd format
Example:			
	Input Daily schedule		
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462500845713", "Name": "DAILYTEST", "Type": "DAILY", "BackupInterval": 5, "FullBackup": true, "SpaceFreeUpEnabled": false, "SkipBackupEnabled": false }</pre>		
	Output		
	<pre>{"Status": "OK"}</pre>		
Example:			
	Input Weekly schedule		
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462500845713", "Name": "WEEKLYTEST", "Type": "WEEKLY", "BackupInterval": -1, "FullBackup": true, "Time" : { "Hour": 08, "Minute": 00 }, "SpaceFreeUpEnabled": true, "SkipBackupEnabled": true, "WeekSchedule": { "Sun": true, "Mon": true, "Tue": true, "Wed": false, "Thu": false, "Fri": true, "Sat": true } }</pre>		
	Output		
	<pre>{"Status": "OK"}</pre>		

Example:**Input Incorrect Value for BackupInterval**

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%",
  "LoginName": "user",
  "BackupSetID": "1462500845713",
  "Name": "DAILYTEST",
  "Type": "DAILY",
  "BackupInterval": 9,
  "FullBackup": true,
  "SpaceFreeUpEnabled": false,
  "SkipBackupEnabled": false
}
```

Output

```
"Status": "Error",
"Message": "ScheduleSettings parameter BackupInterval only can be -1 OR one of the following value: [1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60, 120, 180, 240, 480, 720]",
"ExptType": "com.ahsay.obs.core.dbs.DbsException"
```

4.2.7 UpdateSchedule (v1,v2)

This API updates the backup schedule settings on a backup set.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Backup Schedule]

v1 UpdateSchedule.do

URL:			
	https://BACKUP_SERVER/obs/api/json/UpdateSchedule.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable by calling the ListBackupsets API
	ID	String	Schedule ID obtainable by calling the GetBackupset API
	Name	String	Schedule name
	Type	String	The value can be one of the following: DAILY WEEKLY MONTHLY CUSTOM
	BackupType	String	The value can be empty, or one of the following: DATABASE DIFFERENTIAL LOG SKIP POWEROFF For Oracle and Lotus Domino backup set, the value must be DATABASE or LOG For MS SQL Server backup set, the value must be DATABASE or DIFFERENTIAL For Exchange Server (Exchange 2003) backup set and Shadow Protect backup set, the value must be DATABASE, DIFFERENTIAL, or LOG For Exchange Server backup set (Exchange 2007 or above), the value must be DATABASE or LOG For VMware backup sets, if version is VMware Server 1 or VMware Player, the value must be SKIP or POWEROFF
	Time	TimeBean	If it is true, the schedule backup will run until full backup completed. Otherwise, it will be stopped after the duration specified in key "Duration" of the TimeBean in key "Time".
	FullBackup	Boolean	Enable to backup all files
	BackupInterval	Integer	

	SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
	SkipBackupEnabled	Boolean	
	WeekSchedule	WeekSchedule	Mandatory for weekly schedule
	MonthSchedule	MonthSchedule	Mandatory for monthly schedule
	CustomSchedule	CustomSchedule	Mandatory for custom schedule
	MonthlyDateType	String	Mandatory for monthly schedule. The value can be one of the following: DATE CRITERIA
	Period	String	(Optional) The following values can be set: AM PM If the parameter "Period" is specified as AM or PM then the parameter "Hour" is in 12-hour format. "1", "2", ... "12" can be set. If the parameter "Period" is not specified, then the parameter "Hour" will default to 24-hour format. "0", "1" ... "23" can be set.
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	TimeBean		
	Key	Type	Descriptions
	Hour	Integer	
	Minute	Integer	
	Duration	Integer	(optional) If no value is specified default value = -1 The value can be one of the following: until full backup completed = -1 stop backup after xx hours = 1 to 24
	WeekSchedule		
	Key	Type	Descriptions
	Sun	Boolean	
	Mon	Boolean	
	Tue	Boolean	
	Wed	Boolean	
	Thu	Boolean	
	Fri	Boolean	
	Sat	Boolean	

MonthSchedule		
Key	Type	Descriptions
Occurrence	String	The value can be one of the following: First Second Third Fourth Last
Criteria		The value can be one of the following: Sunday Monday Tuesday Wednesday Thursday Friday Saturday Weekday Weekend
Date	Integer	
CustomSchedule		
Key	Type	Descriptions
Year	Integer	In yyyy format
Month	Integer	In MM format
Day	Integer	In dd format
Example:		
Input Daily schedule		
<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462500845713", "ID": "1500412193490", "Name": "DAILYTEST", "Type": "DAILY", "FullBackup": true, "Time": { "Hour": 21, "Minute": 30 }, "SpaceFreeUpEnabled": true, "SkipBackupEnabled": true }</pre>		
Output		
{"Status": "OK"}		

Example:	
	Input Weekly schedule
	<pre> { "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462500845713", "ID": "1500412193490", "Name": "WEEKLYTEST", "Type": "WEEKLY", "FullBackup": true, "Time": { "Hour": 08, "Minute": 00 }, "SpaceFreeUpEnabled": true, "SkipBackupEnabled": true, "WeekSchedule": { "Sun": true, "Mon": true, "Tue": true, "Wed": false, "Thu": false, "Fri": true, "Sat": true } } </pre>
	Output
	<pre> {"Status": "OK"} </pre>
Example:	
	Input Monthly schedule
	<pre> { "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462500845713", "Name": "MONTHLYTEST", "Type": "MONTHLY", "FullBackup": true, "Time": { "Hour": 19, "Minute": 15 }, "SpaceFreeUpEnabled": true, "SkipBackupEnabled": true, "MonthSchedule": { "Occurrence": "First", "Criteria": "Friday" }, "MonthlyDateType": "CRITERIA" } </pre>
	Output
	<pre> {"Status": "OK"} </pre>

Example:

Input Custom schedule

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%",
  "LoginName": "user",
  "BackupSetID": "1462500845713",
  "ID": "1500412193490",
  "Name": "CUSTOMTEST",
  "Type": "CUSTOM",
  "FullBackup": true,
  "Time": {
    "Hour": 22,
    "Minute": 45
  },
  "SpaceFreeUpEnabled": true,
  "SkipBackupEnabled": true,
  "CustomSchedule": {
    "Year": 2016,
    "Month": 06,
    "Day": 12
  }
}
```

Output

```
{"Status": "OK"}
```

v2 UpdateSchedule.do

URL:			
https://BACKUP_SERVER/obs/api/json/2/UpdateSchedule.do			
Available since version:			
8.3.4.0			
Parameters:			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS system user with admin role	
SysPwd	String	Password of an AhsayCBS system user with admin role	
LoginName	String	Client user name	
BackupSetID	String	Obtainable by calling the ListBackupsets API	
ID	String	Schedule ID obtainable by calling the GetBackupset API	
Name	String	Schedule name	
Type	String	The value can be one of the following: DAILY WEEKLY MONTHLY CUSTOM	
BackupType	String	The value can be empty, or one of the following: DATABASE DIFFERENTIAL LOG SKIP POWEROFF For Oracle and Lotus Domino backup set, the value must be DATABASE or LOG For MS SQL Server backup set, the value must be DATABASE or DIFFERENTIAL For Exchange Server (Exchange 2003) backup set and Shadow Protect backup set, the value must be DATABASE, DIFFERENTIAL, or LOG For Exchange Server backup set (Exchange 2007 or above), the value must be DATABASE or LOG For VMware backup sets, if version is VMware Server 1 or VMware Player, the value must be SKIP or POWEROFF	
Time	TimeBean	Mandatory if "BackupInterval" < 0	
FullBackup	Boolean	Enable to backup all files If it is true, the schedule backup will run until full backup completed. Otherwise, it will be stopped after the duration specified in key "Duration" of the TimeBean in key "Time". Must be <i>true</i> when "BackupInterval" > 0	
BackupInterval	Integer		
SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy	
SkipBackupEnabled	Boolean		
WeekSchedule	WeekSchedule	Mandatory for weekly schedule	
MonthSchedule	MonthSchedule	Mandatory for monthly schedule	
CustomSchedule	CustomSchedule	Mandatory for custom schedule	

MonthlyDateType	String	Mandatory for monthly schedule. The value can be one of the following: DATE CRITERIA
Period	String	(Optional) The following values can be set: AM PM If the parameter "Period" is specified as AM or PM then the parameter "Hour" is in 12-hour format. "1", "2",..."12" can be set. If the parameter "Period" is not specified, then the parameter "Hour" will default to 24-hour format. "0", "1"... "23" can be set.
BackupInterval	Integer	Support periodic schedule backup for all backup set types The value can be -1 or one of the following: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60, 120, 180, 240, 360, 480, 720 (-1 means periodic schedule is disabled that it is a normal schedule.)

Return Values:

Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

JSON Objects:

TimeBean		
Key	Type	Descriptions
Hour	Integer	
Minute	Integer	
Duration	Integer	(optional) If no value is specified default value = -1 The value can be one of the following: until full backup completed = -1 stop backup after xx hours = 1 to 24 Must be -1 when "BackupInterval" > 0
WeekSchedule		
Key	Type	Descriptions
Sun	Boolean	
Mon	Boolean	
Tue	Boolean	
Wed	Boolean	
Thu	Boolean	
Fri	Boolean	
Sat	Boolean	

MonthSchedule		
Key	Type	Descriptions
Occurrence	String	The value can be one of the following: First Second Third Fourth Last
Criteria		The value can be one of the following: Sunday Monday Tuesday Wednesday Thursday Friday Saturday Weekday Weekend
Date	Integer	
CustomSchedule		
Key	Type	Descriptions
Year	Integer	In yyyy format
Month	Integer	In MM format
Day	Integer	In dd format
Example:		
Input Daily schedule		
<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462500845713", "ID": "1500412193490", "Name": "DAILYTEST", "Type": "DAILY", "FullBackup": true, "Time": { "Hour": 21, "Minute": 30 }, "SpaceFreeUpEnabled": true, "SkipBackupEnabled": true }</pre>		
Output		
{"Status": "OK"}		

4.2.8 RemoveSchedule

This API removes a schedule from a backupset.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Backup Schedule]

URL:			
	https://BACKUP_SERVER/obs/api/json/RemoveSchedule.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable by calling the ListBackupsets API
	ID	String or Array of String String	Schedule ID obtainable by calling the GetBackupset API
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462500845713", "ID": "1462954693866" }		
	Output		
	{ "Status": "OK" }		

4.2.9 AddFilter

This API allows you to add filter to the backup source of a backup set. You can choose to include or exclude files which match a specific pattern.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Source] > Enable Apply filter to the backup source

URL:			
	https://BACKUP_SERVER/obs/api/json/AddFilter.do		
Available since version:			
	8.3.4.0		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable in ListBackupset API
	Name	String	Filter name
	TopDir	String	Appying the filter to this specific folder
	Type	String	The value can be one of the following: DEFAULT CUSTOM
	Include	Boolean	For each of the matched files/folders under top directory: Exclude or include them
	Only	Boolean	If it is set to true, it will not include all unmatched files/folders If it is set to false, it will include all unmatched files/folders
	Apply2Dir	Boolean	Apply filter to files
	Apply2File	Boolean	Apply filter to folders
	Patterns	Array of PatternBean	
	Username	String	If username and password are empty, add the address without credential.
	Password	String	If username and password are empty, add the address without credential.
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	PatternBean		
	Key	Type	Descriptions
	Pattern	String	

Example:

Input	
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462427376949", "Name": "filter1", "TopDir": "C:\\test", "Type": "DEFAULT", "Include": false, "Only": true, "Apply2Dir": true, "Apply2File": true, "Patterns": [{ "Pattern": ".txt" }, { "Pattern": ".png" }] }</pre>
Output	
	<pre>{"Status": "OK"}</pre>

4.2.10 UpdateFilter

This API update setting of a filter from a backup set.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Source] > Enable Apply filter to the backup source

URL:			
	https://BACKUP_SERVER/obs/api/json/UpdateFilter.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable by calling the ListBackupsets API
	ID	String	Filter ID, obtainable by calling the GetBackupset API
	Name	String	Filter name
	TopDir	String	Appying the filter to this specific folder
	Type	String	The value can be one of the following: DEFAULT CUSTOM
	Include	Boolean	For each of the matched files/folders under top directory: Exclude or include them
	Only	Boolean	If it is set to true, it will not include all unmatched files/folders If it is set to false, it will include all unmatched files/folders
	Apply2Dir	Boolean	Apply filter to files
	Apply2File	Boolean	Apply filter to folders
	Patterns	Array of PatternBean	
	Username	String	If username and password are empty, add the address without credential.
	Password	String	If username and password are empty, add the address without credential.
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	PatternBean		
	Key	Type	Descriptions
	Pattern	String	
Example:			
	Input Update the name		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462427376949", "ID": "1462435805951", "Name": "filter2updated", }		
	Output		
	{ "Status": "OK" }		

Example:

	Input Update the pattern
	<pre>{ "SysUser": "system", "SysPwd": "system", "LoginName": "opendirect", "BackupSetID": "1497925931498", "ID": "1497945864738", "Name": "testupdated", "Patterns": [{ "Pattern": ".txt123" }, { "Pattern": ".png123" }] }</pre>
	Output
	<pre>{ "Status": "OK" }</pre>

4.2.11 RemoveFilter

This API allows you to remove a filter from a backup set

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Source] > Enable Apply filter to the backup source

URL:			
	https://BACKUP_SERVER/obs/api/json/RemoveFilter.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable by calling the ListBackupsets API
	ID	String or Array of String	Filter obtainable by calling the GetBackupset API
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462427376949", "ID": "1462435805951" }		
	Output		
	{ "Status": "OK" }		

4.2.12 RemoveBandwidthControl

This API can be used to remove a bandwidth control setting from a backup set

The related settings can be found on the AhsayCBS web console:

- 🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Bandwidth Control]

URL:			
	https://BACKUP_SERVER/obs/api/json/RemoveBandwidthControl.do		
Available since version:			
	8.1.1.51		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable by calling the ListBackupsets API
	ID	String or Array of String	Bandwidth control ID(s) obtainable by calling the GetBackupset API
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462427376949", "ID": "1462435805951" }		
	Output		
	{ "Status": "OK" }		

4.2.13 AddBackupSet

This API allows you to create a new backupset in a user.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set]

URL:			
	https://BACKUP_SERVER/obs/api/json/AddBackupSet.do		
Available since version:			
	8.5.4		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	AhsayCBS's system users with admin role
	SysPwd	String	AhsayCBS's system users password with admin role
	LoginName	String	Client user name
	Platform	String	<i>'Temporary directory for storing backup files'</i> value would be set accordingly. The value can be set to one of the following (lower-case): windows mac linux
	BackupSetName	String	Name of the new backup set
	BackupSetType	String	Backup type of the new backup set The value can be set to one of the following: FILE Cloud File Lotus Domino Lotus Notes MariaDB Microsoft Exchange Server Microsoft Exchange Mail (MAPI) Microsoft SQL Server Microsoft Windows Virtualization Microsoft Windows System Backup MySQL Office 365 Exchange Online Oracle Database Server ShadowProtect Bare Metal System State VMware Virtualization Default value is FILE if BackupSetType is not specified
	BackupMode	String	Mandatory for BackupSetType = "Microsoft SQL Server" Backup mode of MSSQL backup set 0: VSS 1: ODBC

VmVersion	String	<p>Mandatory for BackupSetType = "VMware Virtualization"</p> <p>The value for be set to one of the following</p> <p>APPVERSION_ESX_V2 (VMware ESX 4) APPVERSION_ESXI_V2 (VMware ESXi 4 or above) APPVERSION_VMSERVER1 (VMware Server 1) APPVERSION_VMSERVER2 (VMware Server 2) APPVERSION_WORKSTATION (VMware Workstation 6 / 6.5 / 7) APPVERSION_WORKSTATION8 (VMware Workstation 8 or above) APPVERSION_PLAYER (VMware Player 3 / 4 / 5 / 6 / 7 / VMware Workstation Player 12) APPVERSION_FUSION (VMware Fusion 3 / 4) APPVERSION_FUSION5 (VMware Fusion 5 / 6 / 7 / 8) APPVERSION_VCENTER_V2 (VMware vCenter 4 or above)</p>
MsVmVersion	String	<p>Mandatory for BackupSetType = "Microsoft Windows Virtualization"</p> <p>The value can be set to one of the following:</p> <p>Microsoft Hyper-V Server Microsoft Hyper-V Server R2 Microsoft Hyper-V Server R2 (Failover Cluster) Microsoft Hyper-V Server 2012 Microsoft Hyper-V Server 2012 (Failover Cluster) Microsoft Hyper-V Server 2012 R2 Microsoft Hyper-V Server 2012 R2 (Failover Cluster) Microsoft Hyper-V Server 2016 Microsoft Hyper-V Server 2016 (Failover Cluster) Microsoft Hyper-V Server 2019 Microsoft Hyper-V Server 2019 (Failover Cluster)</p>
Version	String	<p>Mandatory for BackupSetType = "Microsoft Exchange Server"</p> <p>The value can be set to one of the following:</p> <p>8 (MS Exchange Server 2007) 14 (MS Exchange Server 2010) 15 (MS Exchange Server 2013) 15.1 (MS Exchange Server 2016) 15.2 (MS Exchange Server 2019) DAG13 (MS Exchange Server 2013 (DAG)) DAG16 (MS Exchange Server 2016 (DAG)) DAG19 (MS Exchange Server 2019 (DAG))</p>
MsMAPIExVersion	String	<p>Mandatory for BackupSetType = "Microsoft Exchange Mail (MAPI)"</p> <p>The value can be set to one of the following:</p> <p>8 (MS Exchange Server 2007) 14 (MS Exchange Server 2010) 15 (MS Exchange Server 2013) 15.1 (MS Exchange Server 2016) 15.2 (MS Exchange Server 2019) DAG13 (MS Exchange Server 2013 (DAG)) DAG16 (MS Exchange Server 2016 (DAG)) DAG19 (MS Exchange Server 2019 (DAG))</p>

EncryptionType	String	<p>Encryption type of a new backup set</p> <p>The value can be set to one of the following:</p> <ol style="list-style-type: none"> 1. "DEFAULT" 2. "PASSWORD" 3. "CUSTOM" 4. "" = No Encryption <p>If the Encryption Type is not provided to the API = Encryption type not defined, This require the end user to define the Encryption type in the AhsayOBM/AhsayACB client for the backup set.</p> <p>If the EncryptionType = PASSWORD the BackupUserPassword must be specified.</p>
BackupUserPassword	String	<p>Used when EncryptionType = PASSWORD</p> <p>The BackupUserPassword must match with the existing user login password on the AhsayOBM/AhsayACB user account. Otherwise return error</p> <p>"The Backup User Password does not match with the existing user password"</p>
Algorithm	String	<p>Encryption algorithm of the new backup set</p> <p>The value can be set to one of the following:</p> <p>Twofish DESede AES</p> <p>Default to AES if not provided</p>
Method	String	<p>Encryption method of the new backup set</p> <p>The value can be set to one of the following</p> <p>ECB CBC</p> <p>Default to CBC if not provided</p>
Length	String	<p>Encryption key length (128-bit / 256-bit)</p> <p>The value can be set to one of the following:</p> <p>128 256</p> <p>Default to 256 if not provided</p>
Key	String	<p>Encryption key of the backup set</p> <p>The value cannot be empty</p>
RunOnServer	Boolean	<p>Run on Server setting for Cloud File and Office 365 mail backup set</p> <p>If this setting is set to "True", "EncryptionType" cannot be set to empty.</p>
DestinationList	Array of Destination	(Optional)
EnableOpenDirect	Boolean	<p>Enable the feature of OpenDirect.</p> <p>Note: Once it is enabled or disabled, it cannot be changed later on.</p>
Return Values:		
Key	Type	Descriptions
Status	String	"OK" or "Error"
BackupSetID	String	Backup Set ID of the created backup set
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

JSON Objects:

Destination

	Key	Type	Descriptions
	Type	String	The value can be one of the following: OBS Local
	Name	String	(Optional) If blank and the Type="OBS" the default value for the Name is "CBS". If blank and the Type="Local" " the default value for the Name is "Local".

Example:	
Input	
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetName": "Test_Name", "BackupSetType": "FILE", "EncryptionType": "CUSTOM", "Algorithm": "AES", "Method": "ECB", "Length": "256", "Key": "123456", "DestinationList": [{ "Name": "dest_CBS", "Type": "OBS", }, { "Name": "dest_Local", "Type": "Local", "TopDir": "D:\\test" }] }</pre>
Output	
	<pre>{ "Status": "OK", "BackupSetID": "1487661755456" }</pre>
Example:	
Input – Platform parameter incorrect	
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetName": "Test_Name", "BackupSetType": "FILE", "EncryptionType": "CUSTOM", "Algorithm": "AES", "Method": "ECB", "Length": "256", "Key": "123456", "Platform": "" }</pre>
Output	
	<pre>{ "Status": "Error", "Message": "[Error] Invalid Platform. Please specify one of the following: windows / mac / linux", "ExptType": "java.lang.Exception" }</pre>

4.2.14 AddAllowedIP

This API allows you to add a range of IP of users which are allowed to perform restore in their computers.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [IP Allowed for Restore]

URL:			
	https://BACKUP_SERVER/obs/api/json/AddAllowedIP.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable in ListBackupsets API
	NewAllowedIP	AllowedIPBean	
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	AllowedIPBean		
	Key	Type	Descriptions
	StartIP	String	
	EndIP	String	
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462427376949", "NewAllowedIP": { "StartIP": "1.1.1.1", "EndIP": "255.255.255.255" } }		
	Output		
	{ "Status": "OK" }		

4.2.15 RemoveAllowedIP

This API allows you to remove a IP range from the allowed IP list. Users whose ip is not in the allowed ip list are not able to perform restore in their computers.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [IP Allowed for Restore]

URL:		
https://BACKUP_SERVER/obs/api/json/RemoveAllowedIP.do		
Available since version:		
8.1		
Parameters:		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS system user with admin role
SysPwd	String	Password of an AhsayCBS system user with admin role
LoginName	String	Client user name
BackupSetID	String or Array of String	Obtainable in ListBackupsets API
AllowedIP	String	ID of allowed IP to remove
Return Values:		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
Example:		
Input		
<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462427376949", "AllowedIP": "1462437395739" }</pre>		
Output		
<pre>{"Status": "OK"}</pre>		

4.2.16 DeleteBackupData

This API only works for backups from version 6 or older backup clients.

URL:			
	https://BACKUP_SERVER/obs/api/json/DeleteBackupData.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Either backup set ID or backup set name should be provided
	BackupSetName	String	Either backup set ID or backup set name should be provided
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"

4.2.17 DeleteBackupFile

This API only works for backups from version 6 or older backup clients.

URL:			
	https://BACKUP_SERVER/obs/api/json/DeleteBackupFile.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetName	String	Backup set name
	InBackupJob	String	Backup Job ID
	Path	String	Path to the backup files
	Type	String	The value can be one of the following: F D I
	BackupByJob	String	Backup Job ID
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"

4.2.18 DeleteBackupSet

This API allows you to delete a backup set of a user.

URL:			
https://BACKUP_SERVER/obs/api/json/DeleteBackupSet.do			
Available since version:			
8.1			
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Backup set ID
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example 1:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462500608140" }		
	Output		
	{"Status": "OK"}		
Example 2: Backup Set contains non-AhsayCBS destination			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user1", "BackupSetID": "146251678140" }		
	Output		
	{ "Status": "Error", "Message": "Cannot delete the backup set 'default-backup-set-name-1(1497858269570)' because the standard destination 'DestinationPool-1' is used. Please delete the backup set via backup client console.", "ExptType": "com.ahsay.obs.core.dbs.c" }		
Example 3: Login name does not exist or incorrect			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user12", "BackupSetID": "146251678140" }		
	Output		
	{ "Status": "Error", "Message": "[UserCacheManager.NoSuchUserExpt] User 'user12' not found.", "ExptType": "com.ahsay.obs.core.dbs.Y" }		

Example 4: Backup Set ID is in correct

Input	
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user12", "BackupSetID": "146251678140" }</pre>
Output	
	<pre>{"Status": "Error", "Message": "Backup set '1497858261234' not found", "ExptType": "com.ahsay.obs.core.dbs.c"}</pre>

4.2.19 GetBackupJobProgress

This API can be used to retrieve current progress of a backup job.

The related settings can be found on the AhsayCBS web console at:

🔗 [Monitoring] > [Backup / Restore Logs] > [Backup Jobs]

URL:			
	https://BACKUP_SERVER/obs/api/json/GetBackupJobProgress.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable by calling the ListbackupSets API
	DestinationID	String	Obtainable by calling the GetbackupSets API
	BackupJobID	String	Obtainable by calling the GetbackupSets API
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	Record	
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	Record		
	Key	Type	Descriptions
	ID	String	
	LoginName	String	Client user name
	Owner	String	
	UserId	String	
	StartTime	String	In yyyy-MM-dd HH:mm:ss format
	EndTime	String	In yyyy-MM-dd HH:mm:ss format
	BackupSetID	String	
	BackupSetName	String	
	CurrentFilename	String	
	FileUploadTime	String	In yyyy-MM-dd HH:mm:ss format
	CurrentFileCount	String	
	TotalFileCount	String	
	UploadedFileSize	String	
	TotalFileSize	String	
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462427376949", "DestinationID": "1462437395739", "BackupJobID": "2017-06-16-13-59-40" }		

	Output
	<pre>{ "Status": "OK", "Data": { "TotalFileCount": "35", "CurrentFilename": "", "Owner": "", "UploadedFileSize": "55920392", "TotalFileSize": "55920392", "LoginName": "opendirect", "ID": "2017-06-16-13-59-40", "BackupSetName": "default-backup-set-name-1", "EndTime": "2017-06-16 14:00:24", "BackupSetID": "1497592595428", "StartTime": "2017-06-16 13:59:41", "UserId": "opendirect", "CurrentFileCount": "0", "FileUploadTime": "" } }</pre>

4.2.20 GetBackupSet (v1,v2)

This API can be used to retrieve information of a backup set.

The related settings can be found on the AhsayCBS web console

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set

v1 GetBackupSet.do

URL:			
	https://BACKUP_SERVER/obs/api/json/GetBackupSet.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable in ListBackupsets API
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	Array	Information of the backup set.
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	Data		
	For details on all parameters returned by GetBackupSet.do, please refer to the input parameters outlined in the UpdateBackupSet section.		
Example:			
	Input		
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1447039383821" }</pre>		
	Output		
	<pre>{ "Status": "OK", "Data": { "CloudName": "", "ProxySettings": null, "ReminderSettings": { "ReadOnly": false, "BackupIntervalHour": 0, "OfflineNotificationDay": 7, "OfflineBackupEnabled": false, "OfflineBackupReminderComputerName": "", "Id": "", "BackupIntervalDay": 1, "ShowOfflineBackupReminder": true, "LogoutBackupReminderEnabled": false, "LogoutBackupReminderComputerName": "" }, "InFileDeltaSettings": {</pre>		

```

"ReadOnly": false,
"WeeklyInFileDeltaSchedule": {
  "Day": [
    "",
    "",
    "",
    "",
    "",
    "",
    "",
    ""
  ],
},
"Enabled": true,
"MinDeltaFileSize": 26214400,
"MaxNumOfDelta": 100,
"MaxDeltaRatio": 50,
"MonthlyInFileDeltaSchedule": {
  "Date": 0,
  "Criteria": "Friday",
  "Month": [
    "",
    "",
    "",
    "",
    "",
    "",
    "",
    "",
    "",
    "",
    "",
    "",
    "",
    "",
    ""
  ],
  "Occurrence": "First"
},
"UploadFullIfGenDeltaFailed": true,
"Id": "",
"DeltaBlockSize": -1,
"DeltaMergeEnabled": false,
"DefaultDeltaType": "I",
},
"CompressType": "",
"EnsureTopDirExistenceInLogin": true,
"UploadPermission": true,
"ApplicationSupportOpenDirect": true,
"AllowedIPList": [
  {
    "ReadOnly": false,
    "Id": "1434946034908",
    "StartIP": "0.0.0.0",
    "EndIP": "255.255.255.255"
  }
],
"Delete": false,
"EncryptionKey": "47DEQpj8HBSa+/TImW+5JCeuQeRkm5NMpJWZG3hSuFU=",
"RunBackupSettings": {
  "ReadOnly": false,
  "Enabled": false,
  "BackupType": "",
  "DestinationIDList": [],
  "Id": "",
  "BackupJobID": ""
},
"OpenDirectEnabled": true,
"ApplicationSupportHyperVRunDirect": false,
"DeltaType": "I",
"CdpSettingsV6": {
  "ReadOnly": false,
  "BackupType": "",
  "Type": "all-volume",
  "MinUpdateInterval": 10,

```



```

"TimeMarkInterval": 60,
"MaxFileSize": -1,
"ComputerName": "",
"Enable": false,
"ExcludeSystemFiles": true,
"FilterList": [],
"CdpBackupControlSettings": {
  "ConsiderCpuUsage": false,
  "ObserveInputForSecond": 60,
  "CpuUsage": 5,
  "ConsiderNetworkTraffic": false,
  "NetworkTraffic": 131072,
  "ConsiderInput": false
},
"Version": "v6",
"SelectedSourceList": [],
},
"CdpSettingsV7": {
  "ReadOnly": false,
  "BackupType": "",
  "Type": "all-volume",
  "MinUpdateInterval": 10,
  "TimeMarkInterval": 60,
  "MaxFileSize": -1,
  "ComputerName": "",
  "Enable": false,
  "ExcludeSystemFiles": true,
  "FilterList": [],
  "CdpBackupControlSettings": {
    "ConsiderCpuUsage": false,
    "ObserveInputForSecond": 60,
    "CpuUsage": 5,
    "ConsiderNetworkTraffic": false,
    "NetworkTraffic": 131072,
    "ConsiderInput": false
  },
  "Version": "v7",
  "SelectedSourceList": [],
},
"Version7Checked": true,
"ApplicationSettings": {
  "ReadOnly": false,
  "WindowsOutlook": false,
  "@class": "com.ahsay.obx.cxp.cloud.FileSettings",
  "WindowsOutlookExpress": false,
  "WindowsDesktop": false,
  "Id": "",
  "Version": "",
  "WindowsMyDocuments": false,
  "WindowsMail": false,
  "WindowsFavourites": false,
  "WindowsLiveMail": false,
},
"class": "com.ahsay.obx.cxp.obs.BackupSet",
"ReadOnlySourceList": [],
"FilterSettings": {
  "ReadOnly": false,
  "Enabled": false,
  "FilterList": [],
  "Id": "",
},
"ScheduleSettings": {
  "ReadOnly": false,
  "ComputerName": "",
  "CustomScheduleList": [],
  "Enable": false,
  "WeeklyScheduleList": [],
  "MonthlyScheduleList": [],
  "DailyScheduleList": [
    {
      "ReadOnly": false,

```

```

    "Exact": true,
    "@class": "com.ahsay.obx.cxp.obs.DailySchedule",
    "BackupInterval": -1,
    "BackupType": "",
    "V6BackupType": "",
    "LastUpdateTime": 1496974288546,
    "SkipBackupEnabled": false,
    "Name": "Backup Schedule",
    "Hour": 21,
    "SpaceFreeUpEnabled": false,
    "Duration": -1,
    "Minute": 0,
    "Id": "1496974288546",
  }
},
"Id": "",
},
"EncryptionSettings": {
  "ReadOnly": false,
  "KeyType": "hash",
  "KeyLength": 128,
  "Key": "47DEQpj8HBSa+/TImW+5JCeuQeRkm5NMpJWZG3hSuFU=",
  "Type": "DEFAULT",
  "Id": "",
  "Algorithm": "",
  "Mode": "",
},
"Os": "",
"DestinationSettings": {
  "ReadOnly": false,
  "MaxDestination": 1,
  "ConcurrencyLevel": 1,
  "Id": "",
  "DestinationList": [],
},
"Id": "1497251840402",
"ReadOnlySelectedSourceKeyList": [],
"BackupJobName": "2017-06-12-15-23-00",
"LogoutType": "",
"EnableBackupEFSFile": true,
"DeleteTempFile": true,
"ShadowCopyEnabled": true,
"EffectiveFilterList": [],
"TotalQuota": 0,
"LanPassword": "",
"Type": "FILE",
"LogRetentionDays": 60,
"NoBackupSourceSelected": false,
"TotalUploaded": 0,
"ApplicationSupportVMwareRunDirect": false,
"ClientVersion": "",
"WorkingDir": "${sys.user.home}/.temp",
"AllHostClientVersion": null,
"LanUsername": "",
"RunOnServer": false,
"PreCommandList": [],
"SettingsMigrated": true,
"TimeZone": "Asia/Hong_Kong",
"SelectedSourceList": [
  "${sys.user.home}"
],
"DisplayedDestination": null,
"LocalCopySettings": {
  "ReadOnly": false,
  "Enabled": false,
  "DestinationPath": "/LocalBackup",
  "SetPermission": false,
  "Id": "",
  "SkipOffsiteBackup": false,
  "Zip": false,
  "LocalCopyRetentionPolicySettings": {

```

```

    "ReadOnly": false,
    "Period": 7,
    "Enabled": true,
    "Id": "",
    "Unit": "DAYS",
  },
},
"VerifyBucketLocationInLogin": true,
"RetentionPolicySettings": {
  "ReadOnly": false,
  "Period": 7,
  "OverlapSensitive": false,
  "Type": "SIMPLE",
  "Id": "",
  "AdvancedRetentionPolicyList": [],
  "Unit": "DAYS",
},
"DefaultBSetSettings": {
  "ReadOnly": false,
  "Owner": "",
  "EnfBSet": false,
  "Category": "",
  "DefBSet": false,
  "Id": "",
},
"Owner": null,
"PostCommandList": [],
"LocalFilesBackup": true,
"TransferSize": 131072,
"BandwidthControlSettings": {
  "ReadOnly": false,
  "Enabled": false,
  "BandwidthControlList": [],
  "Id": "",
  "Mode": "independent",
},
"V6Passwords": {
  "ReadOnly": false,
  "WinUserAuthPassword": "",
  "ApplicationPassword": "",
  "Id": "",
},
"LanDomain": "",
"ApplicationSupportRunDirect": false,
"FollowLink": true,
"DataMigrationSettings": {
  "ReadOnly": false,
  "SpaceFreeUpLastAccess": 0,
  "MigrationProgress": {
    "ReadOnly": false,
    "NumOfCompletedFiles": 0,
    "TotalNumOfFiles": 0,
    "Id": "",
    "CurrentMigratingFilePath": "",
  },
  "Id": "",
  "IntegrityCheckLastAccess": 0,
  "DataMigrationMappingStart": false,
},
"Name": "opendirect - Run on Server - Default",
"BackupTypes": [],
"ReadOnlyDeselectedSourceKeyList": [],
"ResolvedFromDefaultBset": false,
"DeselectedSourceList": [],
"EffectiveOwner": "-",
"UsedQuota": 0
}
}

```

v2 GetBackupSet.do

URL:			
https://BACKUP_SERVER/obs/api/json/2/GetBackupSet.do			
Available since version:			
8.3.4.0			
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable in ListBackupsets API
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	Array	Information of the backup set.
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	Data		
	For details on all parameters returned by GetBackupSet.do, please refer to the input parameters outlined in the UpdateBackupSet section.		
Example:			
	Input		
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1447039383821" }</pre>		
	Output		
	<pre>{ "Status": "OK", "Data": { "CloudName": "", "ProxySettings": null, "ReminderSettings": { "ReadOnly": false, "BackupIntervalHour": 0, "OfflineNotificationDay": 7, "OfflineBackupEnabled": false, "OfflineBackupReminderComputerName": "", "Id": "", "BackupIntervalDay": 1, "ShowOfflineBackupReminder": true, "LogoutBackupReminderEnabled": false, "LogoutBackupReminderComputerName": "" }, "InFileDeltaSettings": { "ReadOnly": false, "WeeklyInFileDeltaSchedule": { "Day": ["", "", "", "", "", "", "", ""] } }, "Enabled": true } }</pre>		

```

"MinDeltaFileSize": 26214400,
"MaxNumOfDelta": 100,
"MaxDeltaRatio": 50,
"MonthlyInFileDeltaSchedule": {
  "Date": 0,
  "Criteria": "Friday",
  "Month": [
    "",
    "",
    "",
    "",
    "",
    "",
    "",
    "",
    "",
    "",
    "",
    "",
    "",
    "",
    "",
    ""
  ],
  "Occurrence": "First"
},
"UploadFullIfGenDeltaFailed": true,
"Id": "",
"DeltaBlockSize": -1,
"DeltaMergeEnabled": false,
"DefaultDeltaType": "I",
},
"CompressType": "",
"EnsureTopDirExistenceInLogin": true,
"UploadPermission": true,
"ApplicationSupportOpenDirect": true,
"AllowedIPList": [
  {
    "ReadOnly": false,
    "Id": "1434946034908",
    "StartIP": "0.0.0.0",
    "EndIP": "255.255.255.255"
  }
],
"Delete": false,
"EncryptionKey": "47DEQpj8HBSa+/TImW+5JCeuQeRkm5NMpJWZG3hSuFU=",
"RunBackupSettings": {
  "ReadOnly": false,
  "Enabled": false,
  "BackupType": "",
  "DestinationIDList": [],
  "Id": "",
  "BackupJobID": ""
},
"OpenDirectEnabled": true,
"ApplicationSupportHyperVRunDirect": false,
"DeltaType": "I",
"CdpSettingsV6": {
  "ReadOnly": false,
  "BackupType": "",
  "Type": "all-volume",
  "MinUpdateInterval": 10,
  "TimeMarkInterval": 60,
  "MaxFileSize": -1,
  "ComputerName": "",
  "Enable": false,
  "ExcludeSystemFiles": true,
  "FilterList": [],
  "CdpBackupControlSettings": {
    "ConsiderCpuUsage": false,
    "ObserveInputForSecond": 60,
    "CpuUsage": 5,
    "ConsiderNetworkTraffic": false,
    "NetworkTraffic": 131072,
    "ConsiderInput": false
  }
}

```

```

},
"Version": "v6",
"SelectedSourceList": [],
},
"CdpSettingsV7": {
  "ReadOnly": false,
  "BackupType": "",
  "Type": "all-volume",
  "MinUpdateInterval": 10,
  "TimeMarkInterval": 60,
  "MaxFileSize": -1,
  "ComputerName": "",
  "Enable": false,
  "ExcludeSystemFiles": true,
  "FilterList": [],
  "CdpBackupControlSettings": {
    "ConsiderCpuUsage": false,
    "ObserveInputForSecond": 60,
    "CpuUsage": 5,
    "ConsiderNetworkTraffic": false,
    "NetworkTraffic": 131072,
    "ConsiderInput": false
  },
  "Version": "v7",
  "SelectedSourceList": [],
},
"Version7Checked": true,
"ApplicationSettings": {
  "ReadOnly": false,
  "WindowsOutlook": false,
  "@class": "com.ahsay.obx.cxp.cloud.FileSettings",
  "WindowsOutlookExpress": false,
  "WindowsDesktop": false,
  "Id": "",
  "Version": "",
  "WindowsMyDocuments": false,
  "WindowsMail": false,
  "WindowsFavourites": false,
  "WindowsLiveMail": false,
},
"class": "com.ahsay.obx.cxp.obs.BackupSet",
"ReadOnlySourceList": [],
"FilterSettings": {
  "ReadOnly": false,
  "Enabled": false,
  "FilterList": [],
  "Id": "",
},
"ScheduleSettings": {
  "ReadOnly": false,
  "ComputerName": "",
  "CustomScheduleList": [],
  "Enable": false,
  "WeeklyScheduleList": [],
  "MonthlyScheduleList": [],
  "DailyScheduleList": [
    {
      "ReadOnly": false,
      "Exact": true,
      "@class": "com.ahsay.obx.cxp.obs.DailySchedule",
      "BackupInterval": -1,
      "BackupType": "",
      "V6BackupType": "",
      "LastUpdateTime": 1496974288546,
      "SkipBackupEnabled": false,
      "Name": "Backup Schedule",
      "Hour": 21,
      "SpaceFreeUpEnabled": false,
      "Duration": -1,
      "Minute": 0,
      "MigratedFromCdp": false,
    }
  ]
}

```

```

        "Id": "1496974288546",
        "BackupInterval": -1
    },
    "Id": "",
},
"EncryptionSettings": {
    "ReadOnly": false,
    "KeyType": "hash",
    "KeyLength": 128,
    "Key": "47DEQpj8HBSa+/TImW+5JCeuQeRkm5NMpJWZG3hSuFU=",
    "Type": "DEFAULT",
    "Id": "",
    "Algorithm": "",
    "Mode": "",
},
"Os": "",
"DestinationSettings": {
    "ReadOnly": false,
    "MaxDestination": 1,
    "ConcurrencyLevel": 1,
    "Id": "",
    "DestinationList": [],
},
"Id": "1497251840402",
"ReadOnlySelectedSourceKeyList": [],
"BackupJobName": "2017-06-12-15-23-00",
"LogoutType": "",
"EnableBackupEFSFile": true,
"DeleteTempFile": true,
"ShadowCopyEnabled": true,
"EffectiveFilterList": [],
"TotalQuota": 0,
"LanPassword": "",
"Type": "FILE",
"LogRetentionDays": 60,
"NoBackupSourceSelected": false,
"TotalUploaded": 0,
"ApplicationSupportVMwareRunDirect": false,
"ClientVersion": "",
"WorkingDir": "${sys.user.home}/.temp",
"AllHostClientVersion": null,
"LanUsername": "",
"RunOnServer": false,
"PreCommandList": [],
"SettingsMigrated": true,
"TimeZone": "Asia/Hong_Kong",
"SelectedSourceList": [
    "${sys.user.home}"
],
"DisplayedDestination": null,
"LocalCopySettings": {
    "ReadOnly": false,
    "Enabled": false,
    "DestinationPath": "/LocalBackup",
    "SetPermission": false,
    "Id": "",
    "SkipOffsiteBackup": false,
    "Zip": false,
    "LocalCopyRetentionPolicySettings": {
        "ReadOnly": false,
        "Period": 7,
        "Enabled": true,
        "Id": "",
        "Unit": "DAYS",
    },
},
"VerifyBucketLocationInLogin": true,
"RetentionPolicySettings": {
    "ReadOnly": false,
    "Period": 7,

```

```

"OverlapSensitive": false,
"Type": "SIMPLE",
"Id": "",
"AdvancedRetentionPolicyList": [],
"Unit": "DAYS",
},
"DefaultBSetSettings": {
  "ReadOnly": false,
  "Owner": "",
  "EnfBSet": false,
  "Category": "",
  "DefBSet": false,
  "Id": "",
},
"Owner": null,
"PostCommandList": [],
"LocalFilesBackup": true,
"TransferSize": 131072,
"BandwidthControlSettings": {
  "ReadOnly": false,
  "Enabled": false,
  "BandwidthControlList": [],
  "Id": "",
  "Mode": "independent",
},
"V6Passwords": {
  "ReadOnly": false,
  "WinUserAuthPassword": "",
  "ApplicationPassword": "",
  "Id": "",
},
"LanDomain": "",
"ApplicationSupportRunDirect": false,
"FollowLink": true,
"DataMigrationSettings": {
  "ReadOnly": false,
  "SpaceFreeUpLastAccess": 0,
  "MigrationProgress": {
    "ReadOnly": false,
    "NumOfCompletedFiles": 0,
    "TotalNumOfFiles": 0,
    "Id": "",
    "CurrentMigratingFilePath": "",
  },
  "Id": "",
  "IntegrityCheckLastAccess": 0,
  "DataMigrationMappingStart": false,
},
"Name": "opendirect - Run on Server - Default",
"BackupTypes": [],
"ReadOnlyDeselectedSourceKeyList": [],
"ResolvedFromDefaultBset": false,
"DeselectedSourceList": [],
"EffectiveOwner": "-",
"UsedQuota": 0
}
}

```


4.2.21 ListBackupFiles

This API only works for backup data backed up by version 6 or older backup clients.

URL:			
	https://BACKUP_SERVER/obs/api/json/ListBackupFiles.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable in ListBackupsets API
	BackupJobID	String	Obtainable in GettBackupsets API
	Path	String	Path to the backup files
	ListAll	Boolean	If it is true, all files are listed, starting from root directory
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	Array of Backup File	
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	Backup File		
	Key	Type	Descriptions
	Type	String	D is for directory, and F is for file
	Name	String	
	FullPath	String	Path to the file
	OriginalFileSize	Long	
	FileSize	Long	
	BackuperByJob	String	
	InBackupJob	String	
	LastModified	Long	
Example:			
	Input		
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "legacyuser01" }</pre>		
	Output		
	<pre>{ "Status": "OK", "Data": [{ "Name": "b1", "Type": "FILE", "ID": "1493865532152" }] }</pre>		

4.2.22 ListBackupJobMode

This API can be used to list all backup jobs information at a specific date.

The related settings can be found on the AhsayCBS web console:

 [Monitoring] > [Backup / Restore Logs] > [Backup Jobs]

URL:			
	https://BACKUP_SERVER/obs/api/json/ListBackupJobMode.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable in ListBackupsets API
	BackupDate	String	In yyyy-MM-dd format
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	Array of Record	
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	Record		
	Key	Type	Descriptions
	ID	String	
	LoginName	String	Client user name
	Owner	String	
	UserId	String	
	StartTime	String	In yyyy-MM-dd HH:mm:ss format
	EndTime	String	In yyyy-MM-dd HH:mm:ss format
	BackupSetID	String	
	BacupSetName	String	
	BackupJobMode	String	The BackupJobMode response can be "R", "M", "S" R = Remote backup M = Manual backup S = Scheduled backup null = no backup
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupDate": "2016-05-05" }		
	Output		
	{ "Status": "OK", "Data": [{ "Owner": "", "LoginName": "user", "ID": "2016-05-05-13-51-27", "BackupJobMode": "M", "BackupSetName": "default-backup-set-name-1", "EndTime": "2016-05-05 13:51:58", "BackupSetID": "1462427376949", "StartTime": "2016-05-05 13:51:28", "UserId": "user" }] }		

4.2.23 ListBackupJobs

This API can be used to show the basic information of all backup jobs performed by a specific user.

The related settings can be found on the AhsayCBS web console:

 [Monitoring] > [Backup / Restore Logs] > [Backup Jobs]

URL:			
	https://BACKUP_SERVER/obs/api/json/ListBackupJobs.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	SkipEmpty	Boolean	If it is true, backup set with no files is skipped
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	Array of Backup Set	
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	Backup Set		
	Key	Type	Descriptions
	BackupSetID	String	
	Removed	Boolean	Shows whether the backup set is removed
	BackupJob	Array of String	
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", >LoginName": "user" }		
	Output		
	{ >Status": "OK", >Data": [{ BackupJob": ["2016-05-05-13-51-27"], BackupSetID": "1462427376949", Removed": false }] }		

4.2.24 ListBackupJobStatus

This API can be used to show detail information such like destination ID and job status of all backup job performed by a specific user on a specific date.

The related settings can be found on the AhsayCBS web console:

🔗 [Monitoring] > [Backup / Restore Logs] > [Backup Jobs]

URL:			
	https://BACKUP_SERVER/obs/api/json/ListBackupJobStatus.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	Owner	String	Sub admin username (if applicable)
	LoginName	String	Client user name
	BackupDate	String	In yyyy-MM-dd format
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	Array of Record	
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	Record		
	Key	Type	Descriptions
	ID	String	
	LoginName	String	Client user name
	Owner	String	Sub admin username (if user owned by sub admin)
	UserId	String	
	StartTime	String	In yyyy-MM-dd HH:mm:ss format
	EndTime	String	In yyyy-MM-dd HH:mm:ss format
	BackupJobStatus	String	Job status. BS_STOP_SUCCESS if successful backup. It varies with the errors found if failed the bacup.
	BackupSetID	String	
	BackupSetName	String	
	UploadSize	String	
	RunVersion	String	
	SuccessDatabase	String	
	MissedDatabase	String	
	SuccessVirtualMachine	String	If backup is VM type, SuccessPublicFolder is returned instead.
	MissedVirtualMachine	String	If backup is VM type, MissedPublicFolder is returned instead.
	SuccessPublicFolder	String	Only returned if backup is VM type
	MissedPublicFolder	String	Only returned if backup is VM type
	DestinationID	String	

Example:**Input**

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%",
  "Owner": "subadmin1",
  "LoginName": "user",
  "BackupDate": "2016-05-05"
}
```

Output

```
{
  "Status": "OK",
  "Data": [
    {
      "Owner": "subadmin1",
      "RunVersion": "7.6.6.0",
      "MissedPublicFolder": "",
      "LoginName": "user",
      "BackupSetName": "default-backup-set-name-1",
      "MissedDatabase": "",
      "UserId": "user",
      "BackupJobStatus": "BS_STOP_SUCCESS",
      "UploadSize": 2815658,
      "SuccessDatabase": "",
      "DestinationID": "1462427482126",
      "ID": "2016-05-05-13-51-27",
      "EndTime": "2016-05-05 13:51:58",
      "StartTime": "2016-05-05 13:51:28",
      "BackupSetID": "1462427376949",
      "SuccessPublicFolder": ""
    }
  ]
}
```

4.2.25 ListBackupSets

This API can be used to show name, type and ID of all backup sets of a specific user.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set]

URL:			
	https://BACKUP_SERVER/obs/api/json/ListBackupSets.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	Array of Backup Set	
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	Backup Set		
	Key	Type	Descriptions
	ID	String	
	Name	String	
	Type	String	The value can be one of the following: FILE Cloud File Lotus Domino Lotus Notes Microsoft Exchange Server Microsoft Exchange Mail (MAPI) Microsoft SQL Server Microsoft Windows Virtualization Microsoft Windows System Backup MySQL Oracle Database Server ShadowProtect Bare Metal System State VMware Virtualization Office 365 Exchange Online

Example:**Input**

```
{  
  "SysUser": "api_user",  
  "SysPwd": "abc123$%",  
  "LoginName": "user"  
}
```

Output

```
{  
  "Status": "OK",  
  "Data": [  
    {  
      "Name": "backupset-test",  
      "Type": "FILE",  
      "ID": "1447039383821"  
    }  
  ]  
}
```

4.2.26 RunBackup

This API can be used to start a backup for a specific user, or to cancel a pending backup job from the server initiated backup job list.

URL:			
	https://BACKUP_SERVER/obs/api/json/RunBackup.do		
Available since version:			
	8.5		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable in ListBackupsets API
	CancelBackup	Boolean	This option can be used to cancel a pending backup job from the server initiated backup job list. Cannot be used to stop / cancel an in process (running) backup job.
	BackupType	String	It must be empty for File, MySQL, Lotus Notes, System State, MS Exchange Mail, MS Windows Server 2008, MS VM, VMware, Cloud File, and Office 365 Exchange Online backup sets. It can be one of the following values: DATABASE LOG COPY DIFFERENTIAL INCREMENTAL
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	Array of Backup Set	
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "username", "BackupSetID": "1462518403716" }		
	Output		
	{ "Status": "OK" }		

4.2.27 AddPreCommand

This API can be used to add a pre-backup command to a backup set.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Command Line Tool]

URL:			
	https://BACKUP_SERVER/obs/api/json/AddPreCommand.do		
Available since version:			
	8.3.4.0		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable in ListBackupsets API
	Name	String	Command Name
	WorkingDir	String	Directory where the command takes place
	Command	String	
	Username	String	If username and password are empty, add the address without credential.
	Password	String	If username and password are empty, add the address without credential.
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1447039383821", "Name": "test", "WorkingDir": "test", "Command": "test" }		
	Output		
	{ "Status": "OK" }		

4.2.28 UpdatePreCommand

This API can be used to update a pre-backup command from a backup set.

The related settings can be found on the AhsayCBS web console:

- 🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Command Line Tool]

URL:			
	https://BACKUP_SERVER/obs/api/json/UpdatePreCommand.do		
Available since version:			
	8.3.4.0		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable in ListBackupsets API
	ID	Long	Command ID, Obtainable in GetBackupset API
	Name	String	Command Name
	WorkingDir	String	Directory where the command takes place
	Command	String	
	Username	String	If username and password are empty, add the address without credential.
	Password	String	If username and password are empty, add the address without credential.
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input Update name		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1497925931498", "ID": "1497950369669", "Name": "newname" }		
	Output		
	{"Status": "OK"}		
Example:			
	Input Update command content		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1497925931498", "ID": "1497950369669", "Command": "newcommand" }		
	Output		
	{"Status": "OK"}		

Example:

Input Update working directory	
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1497925931498", "ID": "1497950369669", "WorkingDir": "newworkingdir" }</pre>
Output	
	<pre>{"Status": "OK"}</pre>

4.2.29 RemovePreCommand

This API can be used to remove a pre-backup command from a backup set.

The related settings can be found on the AhsayCBS web console:

- 🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Command Line Tool]

URL:			
	https://BACKUP_SERVER/obs/api/json/RemovePreCommand.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable in ListBackupsets API
	ID	String or Array of String	ID of precommand. Obtainable in GetBackupSet API.
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1447039383821", "ID": "1447039523357" }		
	Output		
	{"Status": "OK"}		

4.2.30 AddPostCommand

This API can be used to add a post-backup command for a backup set.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Command Line Tool]

URL:			
	https://BACKUP_SERVER/obs/api/json/AddPostCommand.do		
Available since version:			
	8.3.4.0		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable in ListBackupsets API
	Name	String	Command Name
	WorkingDir	String	Directory where the command takes place
	Command	String	
	Username	String	If username and password are empty, add the address without credential.
	Password	String	If username and password are empty, add the address without credential.
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1447039383821", "Name": "test2", "WorkingDir": "test2", "Command": "test2" }		
	Output		
	{ "Status": "OK" }		

4.2.31 UpdatePostCommand

This API can be used to update a post-backup command for a backup set.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Command Line Tool]

URL:			
	https://BACKUP_SERVER/obs/api/json/UpdatePostCommand.do		
Available since version:			
	8.3.4.0		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable in ListBackupsets API
	ID	Long	Command ID, Obtainable in GetBackupset API
	Name	String	Command Name
	WorkingDir	String	Directory where the command takes place
	Command	String	
	Username	String	If username and password are empty, add the address without credential.
	Password	String	If username and password are empty, add the address without credential.
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
Input Update name			
<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1497925931498", "ID": "1497950369669", "Name": "newname" }</pre>			
Output			
<pre>{"Status": "OK"}</pre>			
Example:			
Input Update command content			
<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1497925931498", "ID": "1497950369669", "Command": "newcommand" }</pre>			
Output			
<pre>{"Status": "OK"}</pre>			

Example:

Input Update working directory

```
{  
  "SysUser": "api_user",  
  "SysPwd": "abc123$%",  
  "LoginName": "user",  
  "BackupSetID": "1497925931498",  
  "ID": "1497950369669",  
  "WorkingDir": "newworkingdir"  
}
```

Output

```
{"Status": "OK"}
```

4.2.32 RemovePostCommand

This API can be used to remove a post-backup command for a backup set.

URL:			
	https://BACKUP_SERVER/obs/api/json/RemovePostCommand.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	BackupSetID	String	Obtainable in ListBackupsets API
	ID	String or Array of String	Command ID, Obtainable in GetBackupset API
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1447039383821", "ID": "1447039761786" }		
	Output		
	{ "Status": "OK" }		

4.2.33 ListRestoreJobs

This API can be used to list all restore jobs of each backup set owned by specified user.

The related settings can be found on the AhsayCBS web console:

 [Monitoring] > [Backup / Restore Logs] > [Restore Jobs]

URL:			
	https://BACKUP_SERVER/obs/api/json/ListRestoreJobs.do		
Available since version:			
	8.3.4.0		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	JSON Object	
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	Data		
	Key	Type	Descriptions
	BackupSetID	String	
	Removed	Boolean	Shows whether the backup set is removed
	RestoreJob	Array of String	Timestamp (yyyy-MM-dd-HH-mm-ss)
Example:			
	Input		
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user" }</pre>		
	Output		
	<pre>{ "Status": "OK", "Data": [{ "RestoreJob": ["2019-06-20-17-47-55"], "BackupSetID": "1561108312786", "Removed": false }] }</pre>		

4.2.34 ListRestoreJobStatus

This API can be used to list restore job status of a specified user on a particular date.

The related settings can be found on the AhsayCBS web console:

🔗 [\[Monitoring\]](#) > [\[Backup / Restore Logs\]](#) > [\[Restore Jobs\]](#)

URL:			
	https://BACKUP_SERVER/obs/api/json/ListRestoreJobStatus.do		
Available since version:			
	8.3.4.0		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	Owner	String	Sub admin username (if applicable)
	LoginName	String	Client user name
	RestoreDate	String	In yyyy-MM-dd format
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	JSON Object	
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	Data		
	Key	Type	Descriptions
	ID	String	
	LoginName	String	Client user name
	Owner	String	Sub admin username (if user owned by sub admin)
	UserId	String	
	StartTime	String	In yyyy-MM-dd HH:mm:ss format
	EndTime	String	In yyyy-MM-dd HH:mm:ss format
	RestoreJobStatus	String	Job status. RESTORE_STOP_SUCCESS if successful restore. It varies with the errors found if failed the restore.
	BackupSetID	String	
	BackupSetName	String	
	RestoreSize	String	
	RunVersion	String	
	SuccessDatabase	String	
	MissedDatabase	String	
	SuccessVirtualMachine	String	If backup is VM type, SuccessPublicFolder is returned instead.
	MissedVirtualMachine	String	If backup is VM type, MissedPublicFolder is returned instead.
	SuccessPublicFolder	String	Only returned if backup is VM type
	MissedPublicFolder	String	Only returned if backup is VM type
	DestinationID	String	

Example:**Input**

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%",
  "Owner": "subadmin1",
  "LoginName": "user",
  "RestoreDate": "2020-05-07"
}
```

Output

```
{
  "Status": "OK",
  "Data": [
    {
      "Owner": "",
      "RunVersion": "8.3.4.0",
      "Status": "RESTORE_STOP_SUCCESS",
      "BackupSetName": "default-backup-set-name-2",
      "LoginName": "user",
      "EndTime": "2020-05-07 13:51:57",
      "UserId": "user",
      "StartTime": "2020-05-07 13:51:56",
      "ID": "2020-05-07-13-51-56",
      "BackupSetID": "1588823892745",
      "RestoreSize": 0,
      "DestinationID": "-1588143708901"
    }
  ]
}
```

4.3 Report

4.3.1 GetBackupJobReport

This API can be used to retrieve a detailed report of a specific backup job.

The related settings can be found on the AhsayCBS web console:

🔗 [Monitoring] > [Backup / Restore Logs] > [Backup Jobs]

URL:			
	https://BACKUP_SERVER/obs/api/json/GetBackupJobReport.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role.
	SysPwd	String	Password of an AhsayCBS system user with admin role.
	LoginName	String	Client user name.
	Owner	String	To remove multiple users, join their login names, separated with "*".
	BackupSetID	String	To remove multiple users, join their owner, separated with "*".
	DestinationID	String	Obtainable in GetBackupset API.
			For backup run by OBM v6 or older, this parameter can be omitted. For backup run by OBM 7, this parameter must be provided to get correct result.
	BackupJobID	String	Obtainable in GetBackupset API.
	Cdp	Boolean	
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	Report	
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	Report		
	Key	Type	Descriptions
	ID	String	
	StartTime	String	In yyyy-MM-dd HH:mm:ss format
	EndTime	String	In yyyy-MM-dd HH:mm:ss format
	BackupJobStatus	String	Job status. BS_STOP_SUCCESS if successful backup.
			It varies with the errors found if failed the bacup.
	NumOfWarnEntries	Long	
	NumOfErrorEntries	Long	
	NumOfNewFiles	Long	
	TotalNewFilesSize	Long	
	TotalUnzipNewFilesSize	Long	
	NewFilesZipRatio	Long	
	NumOfUpdatedFiles	Long	
	TotalUpdatedFilesSize	Long	
	TotalUnzipUpdatedFilesSize	Long	
	UpdatedFilesZipRatio	Long	
	NumOfUpdatedPermissionFiles	Long	
	TotalUpdatedPermissionFileSize	Long	
	TotalUnzipUpdatedPermissionFile sSize	Long	
	UpdatedPermissionFilesZipRatio	Long	
	NumOfDeletedFiles	Long	

	TotalDeletedFilesSize	Long	
	TotalUnzipDeletedFilesSize	Long	
	DeletedFilesZipRatio	Long	
	NumOfMovedFiles	Long	
	TotalMovedFilesSize	Long	
	TotalUnzipMovedFilesSize	Long	
	MovedFilesZipRatio	Long	
	SuccessDatabase	Long	This key does not exist in VM backup.
	MissedDatabase	Long	This key does not exist in VM backup.
	SuccessVirtualMachine	Long	This key exists in VM backup only.
	MissedVirtualMachine	Long	This key exists in VM backup only.
	SuccessPublicFolder	Long	
	MissedPublicFolder	Long	
	info	Array of InfoLog	
	new	Array of FileLog	
	upd	Array of FileLog	
	pmt	Array of FileLog	
	del	Array of FileLog	
	mov	Array of MoveLog	
	cpy	Array of FileLog	
	InfoLog		
	Key	Type	Descriptions
	Type	String	
	LogType	String	
	Timestamp	String	In yyyy/MM/dd HH:mm:ss format
	Message	String	
	FileLog		
	Key	Type	Descriptions
	Type	String	
	LastModified	String	In yyyy/MM/dd HH:mm:ss format
	Name	String	
	FileSize	Long	
	UnzipFilesSize	Long	
	Ratio	String	
	MoveLog		
	Key	Type	Descriptions
	Type	String	
	LastModified	String	In yyyy/MM/dd HH:mm:ss format
	FromFile	String	
	ToFile	String	
	FileSize	Long	
	UnzipFilesSize	Long	
	Ratio	String	

Example:	
Input	
	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462427376949", "BackupJobID": "2016-05-05-13-51-27", "DestinationID": "1462427482126" }</pre>
Output	
	<pre>{ "Status": "OK", "Data": { "TotalUnzipCopiedFileSize": 0, "TotalUnzipMovedFileSize": 0, "Logs": [{ "Message": "Saving encrypted backup set encryption keys to server...", "Type": "info", "LogType": "info", "Timestamp": "2016/05/05 13:51:28" }, { "Message": "Start running pre-commands", "Type": "info", "LogType": "info", "Timestamp": "2016/05/05 13:51:29" }, { "Message": "Finished running pre-commands", "Type": "info", "LogType": "info", "Timestamp": "2016/05/05 13:51:29" }, { "Message": "Contact your service provider to enable [Volume Shadow Copy] support", "Type": "info", "LogType": "info", "Timestamp": "2016/05/05 13:51:31" }, { "Message": "Start running post-commands", "Type": "info", "LogType": "info", "Timestamp": "2016/05/05 13:51:58" }, { "Message": "Finished running post-commands", "Type": "info", "LogType": "info", "Timestamp": "2016/05/05 13:51:58" }, { "FileSize": 8192, "Name": "C:\\", "Type": "new", "Ratio": "0%", "UnzipFileSize": 8192, "LastModified": "2016-04-13 14:08:24" }, { "FileSize": 4096, "Name": "C:\\Users", "Type": "new", "Ratio": "0%", "UnzipFileSize": 4096, "LastModified": "2016-04-13 14:21:26" }] } }</pre>

```

},
{
  "FileSize": 8192,
  "Name": "C:\\Users\\Administrator",
  "Type": "new",
  "Ratio": "0%",
  "UnzipFileSize": 8192,
  "LastModified": "2016-05-05 13:51:29"
},
{
  "FileSize": 4096,
  "Name": "C:\\Users\\Administrator\\Documents",
  "Type": "new",
  "Ratio": "0%",
  "UnzipFileSize": 4096,
  "LastModified": "2016-05-05 13:50:16"
},
{
  "FileSize": 0,
  "Name": "C:\\Users\\Administrator\\Music",
  "Type": "new",
  "Ratio": "0%",
  "UnzipFileSize": 0,
  "LastModified": "2013-02-08 15:14:45"
},
{
  "FileSize": 0,
  "Name": "C:\\Users\\Administrator\\Pictures",
  "Type": "new",
  "Ratio": "0%",
  "UnzipFileSize": 0,
  "LastModified": "2013-02-08 15:14:45"
},
{
  "FileSize": 0,
  "Name": "C:\\Users\\Administrator\\Videos",
  "Type": "new",
  "Ratio": "0%",
  "UnzipFileSize": 0,
  "LastModified": "2013-02-08 15:14:45"
},
{
  "FileSize": 2814829,
  "Name": "C:\\Users\\Administrator\\Documents\\obm-win-60443-10.0.0.78-https.exe",
  "Type": "new",
  "Ratio": "5%",
  "UnzipFileSize": 2968432,
  "LastModified": "2016-04-29 15:23:44"
},
{
  "FileSize": 195,
  "Name": "C:\\Users\\Administrator\\Documents\\desktop.ini",
  "Type": "new",
  "Ratio": "51%",
  "UnzipFileSize": 402,
  "LastModified": "2013-02-08 15:14:45"
},
{
  "FileSize": 211,
  "Name": "C:\\Users\\Administrator\\Music\\desktop.ini",
  "Type": "new",
  "Ratio": "58%",
  "UnzipFileSize": 504,
  "LastModified": "2013-02-08 15:14:45"
},
{
  "FileSize": 210,
  "Name": "C:\\Users\\Administrator\\Pictures\\desktop.ini",
  "Type": "new",
  "Ratio": "58%",
  "UnzipFileSize": 504,

```

```

    "LastModified": "2013-02-08 15:14:45"
  },
  {
    "FileSize": 0,
    "Name": "C:\\Users\\Administrator\\Documents\\My Music",
    "Type": "new",
    "Ratio": "0%",
    "UnzipFileSize": 0,
    "LastModified": "2013-02-08 15:14:40"
  },
  {
    "FileSize": 213,
    "Name": "C:\\Users\\Administrator\\Videos\\desktop.ini",
    "Type": "new",
    "Ratio": "57%",
    "UnzipFileSize": 504,
    "LastModified": "2013-02-08 15:14:45"
  },
  {
    "FileSize": 0,
    "Name": "C:\\Users\\Administrator\\Documents\\My Pictures",
    "Type": "new",
    "Ratio": "0%",
    "UnzipFileSize": 0,
    "LastModified": "2013-02-08 15:14:40"
  },
  {
    "FileSize": 0,
    "Name": "C:\\Users\\Administrator\\Documents\\My Videos",
    "Type": "new",
    "Ratio": "0%",
    "UnzipFileSize": 0,
    "LastModified": "2013-02-08 15:14:40"
  }
],
"MissedPublicFolder": "",
"NumOfCopiedFiles": 0,
"NumOfNewFiles": 5,
"BackupJobStatus": "BS_STOP_SUCCESS",
"TotalMovedFilesSize": 0,
"FromIp": "10.10.0.1",
"NumOfErrorEntries": 0,
"NumOfDeletedFiles": 0,
"NumOfDeletedLinkDirCount": 0,
"TotalDeletedFilesSize": 0,
"MovedFilesZipRatio": "0%",
"TotalUpdatedPermissionFileSize": 0,
"ID": "2016-05-05-13-51-27",
"NumOfWarnEntries": 0,
"NumOfMovedFiles": 0,
"StartTime": "2016-05-05 13:51:28",
"SuccessPublicFolder": "",
"TotalCopiedSize": 0,
"DeletedFilesZipRatio": "0%",
"NumOfUpdatedPermissionFiles": 0,
"NumOfDeletedLinkFileCount": 0,
"NumOfUpdatedFiles": 0,
"TotalUnzipUpdatedPermissionFileSize": 0,
"UpdatedPermissionFilesZipRatio": "0%",
"NumOfNewLinkFileCount": 0,
"MissedDatabase": "",
"NewFilesZipRatio": "5%",
"TotalUnzipUpdatedFilesSize": 0,
"UpdatedFilesZipRatio": "0%",
"NumOfNewLinkDirCount": 3,
"CopiedFilesZipRatio": "0%",
"TotalUpdatedFilesSize": 0,
"SuccessDatabase": "",
"NumOfNewDirCount": 7,
"NumOfDeletedDirCount": 0,
"EndTime": "2016-05-05 13:51:58",

```


	<pre>"TotalUnzipDeletedFilesSize": 0, "TotalNewFilesSize": 2815658, "TotalUnzipNewFilesSize": 2970346 } }</pre>
--	---

4.3.2 GetBackupJobReportSummary

This API can be used to retrieve a summary report of a backup job.

The related settings can be found on the AhsayCBS web console:

🔗 [Monitoring] > [Backup / Restore Logs] > [Backup Jobs]

URL:			
	https://BACKUP_SERVER/obs/api/json/GetBackupJobReportSummary.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	Owner	String	
	BackupSetID	String	Obtainable in GetBackupset API
	DestinationID	String	For backup run by OBM v6 or older, this parameter can be omitted. For backup run by OBM 7, this parameter must be provided to get correct result.
	BackupJobID	String	Obtainable in GetBackupset API
	Cdp	Boolean	Continuous Data Protection
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	Report	
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	Report		
	Key	Type	Descriptions
	ID	String	ID of the report
	StartTime	String	In yyyy-MM-dd HH:mm:ss format
	EndTime	String	In yyyy-MM-dd HH:mm:ss format
	BackupJobStatus	String	Job status. BS_STOP_SUCCESS if successful backup. It varies with the errors found if failed the backup.
	NumOfWarnEntries	Long	Number of warning during backup
	NumOfErrorEntries	Long	Number of error during backup
	NumOfNewFiles	Long	Number of new files backup
	TotalNewFilesSize	Long	Total size of new files backup
	NumOfUpdatedFiles	Long	Number of files updated
	TotalUpdatedFilesSize	Long	Total size of updated files.
	NumOfDeletedFiles	Long	Number of files deleted
	TotalDeletedFilesSize	Long	Total size of deleted files
	NumOfMovedFiles	Long	Number of files moved
	TotalMovedFilesSize	Long	Total size of moved files
	NumOfUpdatedPermissionFiles	Long	Number of files permission updated
	TotalUpdatedPermissionFileSize	Long	Total size of files permission updated
	SuccessDatabase	Long	This key does not exist in VM backup
	MissedDatabase	Long	This key does not exist in VM backup
	SuccessVirtualMachine	Long	This key exists in VM backup only
	MissedVirtualMachine	Long	This key exists in VM backup only
	SuccessPublicFolder	Long	
	MissedPublicFolder	Long	

Example:**Input**

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$%",
  "LoginName": "user",
  "BackupSetID": "1462427376949",
  "BackupJobID": "2016-05-05-13-51-27",
  "DestinationID": "1462427482126"
}
```

Output

```
{
  "Status": "OK",
  "Data": {
    "NumOfUpdatedPermissionFiles": 0,
    "NumOfUpdatedFiles": 0,
    "MissedPublicFolder": "",
    "NumOfCopiedFiles": 0,
    "NumOfNewFiles": 5,
    "MissedDatabase": "",
    "BackupJobStatus": "BS_STOP_SUCCESS",
    "TotalMovedFilesSize": 0,
    "NumOfErrorEntries": 0,
    "NumOfDeletedFiles": 0,
    "TotalDeletedFilesSize": 0,
    "TotalUpdatedFilesSize": 0,
    "SuccessDatabase": "",
    "TotalUpdatedPermissionFilesSize": 0,
    "ID": "2016-05-05-13-51-27",
    "NumOfMovedFiles": 0,
    "NumOfWarnEntries": 0,
    "EndTime": "2016-05-05 13:51:58",
    "StartTime": "2016-05-05 13:51:28",
    "TotalNewFilesSize": 2815658,
    "SuccessPublicFolder": "",
    "TotalCopiedSize": 0
  }
}
```

4.3.3 GetRestoreJobReport

This API can be used to retrieve a detailed report of a restore job.

The related settings can be found on the AhsayCBS web console:

 [Monitoring] > [Backup / Restore Logs] > [Restore Jobs]

URL:			
	https://BACKUP_SERVER/obs/api/json/GetRestoreJobReport.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LoginName	String	Client user name
	Owner	String	
	BackupSetID	String	Obtainable in GetBackupset API
	JobID	String	ID of restore job. Obtainable from the client restore log or in the user home at: %Clientprofile%\obm\log\%backupset_id%\Restore\YYYY-MM-DD\YYYY-MM-DD-hh-mm-ss.log Or %Userhome%\username\pdf\restore\%backupset_id%\YYYY-MM-DD\YYYY-MM-DD-hh-mm-ss.pdf Where the JobID is YYYY-MM-DD -hh-mm-ss (e.g. file name of the .log / .pdf file).
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	Report	
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	Report		
	Key	Type	Descriptions
	ID	String	
	StartTime	Long	
	EndTime	Long	
	FromIp	String	Restore from Ip
	DestinationID	String	Restore to ID
	Status	String	This key exists if restore is run by 7 client only The value can be one of the following: RESTORE_STOP_SUCCESS_WITH_ERROR RESTORE_STOP_SUCCESS_WITH_WARNING RESTORE_STOP_SUCCESS RESTORE_STOP_BY_USER RESTORE_STOP_BY_ERROR
	TotalFileCount	Long	Total file restored
	TotalFileSize	Long	Total files size restored
	Logs	Array of Log	

Log		
Key	Type	Descriptions
Type	String	The value can be one of the following: file info
StartTime	Long	
EndTime	Long	
Name	String	
FileSize	Long	
UncompressedSize	Long	
LastModified	Long	
Message	String	This key exists only if "Type" is "info".
LogType	String	This key exists only if "Type" is "info".
Timestamp	String	This key exists only if "Type" is "info". It is in yyyy/MM/dd hh:mm:ss format
Example:		
Input		
<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$", "LoginName": "user", "BackupSetID": "1462427376949", "JobID": "2019-04-18-17-01-02" }</pre>		
Output		
<pre>{ "Status": "OK", "Data": { "Status": "RESTORE_STOP_SUCCESS", "EndTime": "2019-04-18 17:01:05", "TotalFileCount": 1, "StartTime": "2019-04-18 17:01:02", "TotalFileSize": 18734, "Logs": [{ "Type": "start" }, { "Type": "info", "Message": "Initializing decrypt action...", "LogType": "info", "Timestamp": "2019/04/18 17:01:02" }, { "Type": "info", "Message": "Initializing decrypt action... Completed", "LogType": "info", "Timestamp": "2019/04/18 17:01:02" }, { "Type": "info", "Message": "Creating new directory... \"e:\\Users\\user\\Desktop\\Work\\Restore Dest\\E_\"", "LogType": "info", "Timestamp": "2019/04/18 17:01:03" }, { "Type": "info", "Message": "Creating new directory... \"e:\\Users\\user\\Desktop\\Work\\Restore Dest\\E_\\Users\"", "LogType": "info", "Timestamp": "2019/04/18 17:01:03" }, { "Type": "info", "Message": "Creating new directory... \"e:\\Users\\user\\Desktop\\Work\\Restore Dest\\E_\\Users\\user\"", "LogType": "info", "Timestamp": "2019/04/18 17:01:03" }, { "Type": "info", "Message": "Creating new directory... \"e:\\Users\\user\\Desktop\\Work\\Restore Rest\\E_\\Users\\user\\Desktop\"", "LogType": "info", "Timestamp": "2019/04/18 17:01:03" }] } }</pre>		

	<pre> }, { "Type": "info", "Message": "Creating new directory..."e:\\Users\\user\\Desktop\\Work\\RestoreDest\\E_\\Users\\user\\ Desktop\\Work\\", "LogType": "info", "Timestamp": "2019/04/18 17:01:03" }, { "LastModified": 1528456402786, "Type": "file", "EndTime": 1555578064238, "StartTime": 1555578064225, "UncompressedSize": 21850, "Name": "e:\\Users\\user\\Desktop\\Work\\Restore Dest\\E_\\Users\\user\\Desktop\\Work\\Data Compression Rate Test.xlsx", "FileSize": 18734 }, { "Type": "end" }], "FromIp": "127.0.0.1", "DestinationID": "1514519527054" } } </pre>

5 RPS API

5.1 RPS Receiver

5.1.1 ListReceiver

This API can be used to list all the receiver and their settings.

The related settings can be found on the AhsayCBS web console:

 [Replication] > [Accepting Data] > [Receiver]

URL:			
	https://BACKUP_SERVER/rps/api/json/ListReceiver.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Data	Report	
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	Receiver		
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	Id	Long	If this value is 0, a new receiver is created. If a new receiver is created, all parameters are mandatory
	ReplicationEnabled	Boolean	Enable replication of the receiver
	LoginName	String	The login name of the replication receiver
	Password	String	The password of the replication receiver
	Alias	String	
	ListenPort	Integer	Listen port of the source backup server
	SystemHome	String	The system home for this replication receiver.
	RestoreRunning	Boolean	Restore the replication snapshot.
	TrafficLimits	Array of TrafficLimit	Limit the usage of network bandwidth by the replication service.
	UserHomeMappings	Array of UserHomeMapping	The source backup server user home location.
	RestoringPath	String	
	IPRestrictions	Array of IPRestriction	This is to restrict the range of IP to access this receiver.
	RestoreStatus	String	
	ObsVersion	Integer	
	ObsHost	String	
	ObsProtocol	String	
	ObsSysUser	String	The system user login of the backup server
	ObsSysPwd	String	The system user password login of the backup server
	ObsPort	Integer	
	RestorePointInterval	Integer	
	CrcEnabled	Boolean	Cyclic Redundancy Check (CRC) Checking

	CrcHour	Integer	Monthly at HH:MM
	TrafficLimit		
	Key	Type	Descriptions
	Id	Long	
	Name	String	
	Always	Boolean	
	FromDayOfWeek	Integer	
	FromHour	Integer	
	FromMin	Integer	
	ToDayOfWeek	Integer	
	ToHour	Integer	
	ToMin	Integer	
	MaxTransferRate	Long	
	UserHomeMapping		
	Key	Type	Descriptions
	RPSDir	String	
	OBShome	String	
	IPRestriction		
	Key	Type	Descriptions
	Id	Long	
	From	String	
	To	String	
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%" }		
	Output		
	{ "Status": "OK", "Data": [{ "CrcHour": 0, "ListenHost": "0.0.0.0", "LoginName": "test", "Update": false, "Password": "abc123\$%", "V6ReplicationEnabled": false, "CrcMinute": 0, "RestoringPath": "", "ListenPort": 9444, "TrafficLimit": {}, "RestoreRunning": false, "UserHomeMappings": [], "RestoreDir": "", "RestoreStatus": "", "IPRestrictions": [], "ObsVersion": 1, "LatestSnapshot": "", "ObsHost": "10.120.30.11", "ObsProtocol": "http", "MigrateFromV6": false, "ObsSysUser": "system", "ReplicationEnabled": false, "RestorePointInterval": 30, "BlockCount": 0, "ObsPort": 80, "Alias": "", "RestoreDisableStop": false, "CrcEnabled": false, "Id": 1, }] }		

	<pre>"RetentionCustomizationPolicy": 60, "TrafficLimits": [], "ObsSysPwd": "system", "SystemHome": "/usr/local/cbs_7_12.4/system/rps/rcvshome/test" }] }</pre>
--	---

5.1.2 UpdateReceivers

This API can be used to update settings of a replication receiver.

The related settings can be found on the AhsayCBS web console:

🔗 [Replication] > [Accepting Data] > [Receiver]

URL:			
	https://BACKUP_SERVER/rps/api/json/UpdateReceivers.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	Id	Long	If this value is 0, a new receiver is created. If a new receiver is created, all parameters are mandatory
	ReplicationEnabled	Boolean	Enable replication of the receiver
	LoginName	String	The login name of the replication receiver
	Password	String	The password of the replication receiver
	Alias	String	
	ListenPort	Integer	Listen port of the source backup server
	SystemHome	String	The system home for this replication receiver.
	RestoreRunning	Boolean	Restore the replication snapshot.
	TrafficLimits	Array of TrafficLimit	Limit the usage of network bandwidth by the replication service.
	UserHomeMappings	Array of UserHomeMapping	The source backup server user home location.
	RestoringPath	String	
	IPRestrictions	Array of IPRestriction	This is to restrict the range of IP to access this receiver.
	RestoreStatus	String	
	ObsVersion	Integer	
	ObsHost	String	
	ObsProtocol	String	
	ObsSysUser	String	The system user login of the backup server
	ObsSysPwd	String	The system user password login of the backup server
	ObsPort	Integer	
	RestorePointInterval	Integer	
	CrcEnabled	Boolean	Cyclic Redundancy Check (CRC) Checking
	CrcHour	Integer	Monthly at HH:MM
	CrcMinute	Integer	Monthly atHH:MM
	MigrateFromV6	Boolean	
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	TrafficLimit		
	Key	Type	Descriptions
	Id	Long	Id of the trafficlimit
	Name	String	
	Always	Boolean	Always apply the settings
	FromDayOfWeek	Integer	Only applicable when Always set to false
	FromHour	Integer	Only applicable when Always set to false
	FromMin	Integer	Only applicable when Always set to false

	ToDayOfWeek	Integer	Only applicable when Always set to false
	ToHour	Integer	Only applicable when Always set to false
	ToMin	Integer	Only applicable when Always set to false
	MaxTransferRate	Long	
	UserHomeMapping		
	Key	Type	Descriptions
	RPSDir	String	
	OBSTHome	String	
	IPRestriction		
	Key	Type	Descriptions
	Id	Long	
	From	String	
	To	String	
Example:			
Input			
<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "Id": "1", "ReplicationEnabled": true, "LoginName": "dummyUser", "Password": "dummyPassword", "Alias": "test", "SystemHome": "C:\\", "ObsVersion": 0, "RestorePointInterval": 30, "RetentionCustomizationPolicy": 40, "CrcEnabled": false, "CrcHour": 0, "CrcMinute": 0, "ListenHost": "0.0.0.0", "ListenPort": "9444", "obsHost": "test", "ObsSysUser": "api_user", "ObsSysPwd": "abc123\$%", "TrafficLimits": [{ "Id": 1, "Name": "4096", "ToDayOfWeek": 1, "ToHour": 0, "MaxTransferRate": 4096, "FromHour": 0, "TransferRateUnit": 0, "FromMin": 0, "Always": false, "ToMin": 0, "FromDayOfWeek": 1, "Class": "com.ahsay.cbs.rps.config.receiver.EditTrafficLimitBean" }], "V6ReplicationEnabled": false }</pre>			
Output			
<pre>{ "Status": "OK" }</pre>			

Example:

Input - Disable replication

```
{
  "SysUser": "api_user",
  "SysPwd": "abc123$",
  "Id": "1",
  "ReplicationEnabled": false,
  "LoginName": "dummyUser",
  "Password": "dummyPassword",
  "Alias": "test",
  "SystemHome": "C:\\",
  "ObsVersion": 0,
  "RestorePointInterval": 30,
  "RetentionCustomizationPolicy": 40,
  "CrcEnabled": false,
  "CrcHour": 0,
  "CrcMinute": 0,
  "ListenHost": "0.0.0.0",
  "ListenPort": "9444",
  "obsHost": "test",
  "ObsSysUser": "api_user",
  "ObsSysPwd": "abc123$",
  "TrafficLimits": [{
    "Id": 1,
    "Name": "4096",
    "ToDayOfWeek": 1,
    "ToHour": 0,
    "MaxTransferRate": 4096,
    "FromHour": 0,
    "TransferRateUnit": 0,
    "FromMin": 0,
    "Always": false,
    "ToMin": 0,
    "FromDayOfWeek": 1,
    "Class": "com.ahsay.cbs.rps.config.receiver.EditTrafficLimitBean"
  }],
  "V6ReplicationEnabled": false
}
```

Output

```
{
  "Status": "OK"
}
```

5.1.3 RemoveReceiver

This API can be used to remove a replication receiver.

The related settings can be found on the AhsayCBS web console:

🔗 [Replication] > [Accepting Data] > [Receiver]

URL:			
	https://BACKUP_SERVER/rps/api/json/RemoveReceiver.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	Id	Long	
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
Input			
{ "SysUser": "api_user", "SysPwd": "abc123\$%", "Id": "1", }			
Output			
{ "Status": "OK" }			




6 RDR API

6.1 RDR License

6.1.1 UpdateLicense

This API can be used to update the licensee name and license key on the AhsayCBS server for the redirector.

The related settings can be found on the AhsayCBS web console:

 [System Settings] > [License] > [Redirector]

URL:			
	https://BACKUP_SERVER/rdr/api/json/UpdateLicense.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	LicenseeName	String	Licensee name of redirector key
	LicenseKey	String	Product Key for redirector
	UseProxy	Boolean	Enable / Disable the use of proxy defined in the AhsayCBS to connect the internet.
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
Example:			
	Input		
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LicenseeName": "ABC_Backup", "LicenseKey": "XyZ98-AbcDE-fGhIJ-98bcd-YZ" }		
	Output 1		
	{ "Status": "OK", "Key": "XyZ98-AbcDE-fGhIJ-98bcd-YZ", "Deactivated": false, "Licensee": "ABC_Backup" }		
	Output 2		
	{ "Status": "OK", "Key": "XyZ98-AbcDE-fGhIJ-98bcd-YZ", "Deactivated": false, "Info": "Internal Error 1012. Please press the [Update] button in license page to correct this problem. If the problem persists, please contact our technical support team to resolve this problem.", "Licensee": "ABC_Backup" }		
	Output 3		
	{ "Status": "Error", "Message": "License key incorrect. Please try again." }		

Output 4

```
{  
  "Status": "OK", "Key": "XyZ98-AbcDE-fGhIJ-98bcd-YZ", "Deactivated": false, "Info": "[OEM License.checkLicTime] License expired on  
  1970-01-01. Backup server is stopped.", "Licensee": "ABC_Backup"  
}
```


6.2 Server Config

6.2.1 UpdateServerConfig

This API can be used to update the Redirector module's setting.

The related settings can be found on the AhsayCBS web console at:

🔗 [Redirection] > [Hosting a redirector] > [Server Configuration]

URL:			
	https://BACKUP_SERVER/rdr/api/json/UpdateServerConfig.do		
Available since version:			
	8.1		
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS system user with admin role
	SysPwd	String	Password of an AhsayCBS system user with admin role
	SkipDuplicateUserCheck	Boolean	Do not check duplicate users
	BackupServers	Array	Redirector will redirect user to these backup servers
	EnableRdr	Boolean	
	FreeTrialServer	Integer	ID of the backup server for free trial registration
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:			
	BackupServers		
	Key	Type	Descriptions
	Id	Long	
	Enabled	Boolean	
	HttpEnabled	Boolean	
	SslEnabled	Boolean	
	LoginName	String	
	Password	String	
	Hostname	String	
	HttpPort	Integer	
	SslPort	Integer	
	Class	String	The value must be "com.ahsay.cbs.rdr.config.system.EditServerConfigBean\$BackupServerBean"

Example:

Input

```
{
  "SysUser": "system",
  "SysPwd": "system",
  "BackupServers": [
    {
      "Id": "1",
      "Enabled": true,
      "HttpEnabled": true,
      "SslEnabled": false,
      "LoginName": "system",
      "Password": "system",
      "Hostname": "10.16.30.11",
      "HttpPort": 80,
      "SslPort": 443,
      "Class": "com.ahsay.cbs.rdr.config.system.EditServerConfigBean$BackupServerBean"
    }
  ],
  "SkipDuplicateUserCheck": false,
  "EnableRdrFreeTrial": false
}
```

Output

```
{
  "Status": "OK"
}
```



7 Further Information

If you have any question or suggestion about this document, please open a Support ticket via [Ahsay Partner Portal](#).

Appendix

Appendix A Supported Language Code

Please refer to Appendix A of our [AhsayCBS Administrator's Guide](#) for details.

Appendix B Supported Time zones

Timezone String	ID	Timezone Name
GMT+13:00 (WST)	1001	Western European Summer Time
GMT-11:00 (NUT)	1002	Niue Time
GMT-11:00 (SST)	1003	Samoa Standard Time
GMT-10:00 (HADT)	1004	Hawaii-Aleutian Daylight Time
GMT-10:00 (HST)	1005	Hawaiian Standard Time
GMT+13:00 (TKT)	1006	Tokelau Time
GMT-10:00 (HST)	1007	Hawaii Standard Time
GMT-10:00 (CKT)	1008	Cook Islands Time
GMT-10:00 (TAHT)	1009	Tahiti Time
GMT-09:00 (AKDT)	1010	Alaska Standard Time
GMT-09:00 (GAMT)	1011	Gambier Time
GMT-08:00 (PST)	1012	Pacific Standard Time (North America)
GMT-08:00 (PDT)	1013	Pacific Daylight Time (North America)
GMT-07:00 (MST)	1014	Mountain Standard Time
GMT-07:00 (MDT)	1015	Mountain Daylight Time
GMT-06:00 (CST)	1016	Central Standard Time
GMT-06:00 (EAST)	1018	Easter Island Time
GMT-06:00 (GALT)	1019	Galapagos Time
GMT-05:00 (EST)	1020	Eastern Standard Time (North America)
GMT-04:00 (EDT)	1021	Eastern Daylight Time
GMT-05:00 (COT)	1022	Colombia Time
GMT-05:00 (ECT)	1023	Ecuador Time
GMT-05:00 (CDT)	1024	Central Daylight Time (North America)
GMT-05:00 (PET)	1025	Peru Time
GMT-04:00 (ACT)	1026	Acre Time
GMT-05:00 (GMT-05:00)	1027	
GMT-04:00 (AST)	1028	Atlantic Standard Time
GMT-04:00 (PYT)	1029	Paraguay Time
GMT-04:30 (VET)	1030	Venezuela Time
GMT-04:00 (AMT)	1031	Armenia Time
GMT-04:00 (GYT)	1032	Guyana Time
GMT-04:00 (ADT)	1033	Acre Daylight Time Atlantic Standard Time
GMT-04:00 (BOT)	1034	Bolivia Time
GMT-04:00 (AMT)	1035	Armenia Time
GMT-04:00 (CLT)	1036	Chile Time
GMT-03:00 (FKT)	1037	Falkland Islands
GMT-03:00 (ART)	1038	Argentina Time
GMT-03:00 (GFT)	1039	Guiana Time
GMT-03:00 (BRT)	1040	Brasilia Time
GMT-03:00 (WGST)	1041	West Greenland Summer Time
GMT-03:00 (PMDT)	1042	Pierre & Miquelon Daylight Time
GMT-03:00 (UYT)	1043	Uruguay Time
GMT-03:00 (SRT)	1044	Suriname Time
GMT-02:00 (FNT)	1045	Fernando de Noronha Time
GMT-02:00 (GST)	1046	Gulf Standard Time
GMT-01:00 (EGST)	1047	East Greenland Summer Time
GMT-01:00 (AZOST)	1048	Azores Summer Time
GMT-01:00 (CVT)	1049	Cape Verde Time
GMT-01:00 (EGT)	1050	East Greenland Time
GMT+00:00 (GMT)	1051	Greenwich Mean Time
GMT+00:00 (WET)	1052	Western European Time
GMT+00:00 (WEST)	1053	Western European Summer Time
GMT+00:00 (IST)	1054	Israel Standard Time
GMT+00:00 (BST)	1055	Brazil Standard Time
GMT+00:00 (UTC)	1056	Coordinate Universal Time
GMT+01:00 (CET)	1057	Central European Time
GMT+01:00 (WAT)	1058	West Africa Time
GMT+02:00 (CEST)	1059	Central European Summer Time
GMT+02:00 (EEST)	1060	Eastern European Summer Time
GMT+02:00 (CAT)	1061	Central Africa Time
GMT+02:00 (SAST)	1062	South African Standard Time
GMT+02:00 (EET)	1063	Eastern European Time

GMT+02:00 (IDT)	1064	Israel Daylight Time
GMT+03:00 (EAT)	1065	East Africa Time
GMT+03:00 (AST)	1066	Acre Standard Time
GMT+03:00 (ADT)	1067	Acre Daylight Time
GMT+04:00 (MSD)	1068	Moscow Daylight Time
GMT+05:00 (AQTST)	1069	Aqtau Summer Time
GMT+04:00 (AZST)	1070	Azerbaijan Summer Time
GMT+04:00 (GST)	1071	Gulf Standard Time
GMT+04:00 (GEST)	1072	Georgia Time
GMT+04:00 (AMST)	1073	Armenia Summer Time
GMT+04:00 (SAMST)	1074	Samara Time
GMT+04:00 (SCT)	1075	Seychelles Time
GMT+04:00 (MUT)	1076	Mauritius Time
GMT+04:00 (RET)	1077	Reunion Time
GMT+05:00 (TMT)	1078	Turkmenistan Time
GMT+06:00 (KGST)	1079	Kyrgyzstan Summer Time
GMT+05:00 (TJT)	1080	Tajikistan Time
GMT+05:00 (PKT)	1081	Pakistan Time
GMT+05:00 (UZT)	1082	Uzbekistan Time
GMT+06:00 (YEKST)	1083	Yekaterinburg Summer Time
GMT+06:00 (IOT)	1084	Indian Ocean Territory Time
GMT+05:00 (TFT)	1085	French Southern & Antarctic Lands Time
GMT+05:00 (MVT)	1086	Maldives Time
GMT+05:00 (MAWT)	1087	Mawson Time
GMT+06:00 (ALMST)	1088	Almaty Summer Time
GMT+05:30 (LKT)	1089	Sri Lanka Time
GMT+06:00 (BDT)	1090	Bangladesh Time
GMT+07:00 (NOVT)	1091	Novosibirsk Time
GMT+06:00 (BTT)	1092	Bhutan Time
GMT+07:00 (ICT)	1093	Indochina Time
GMT+07:00 (JAVT)	1094	Java Time, Indonesia Time
GMT+08:00 (KRAT)	1095	Krasnoyarsk Time
GMT+07:00 (CXT)	1096	Christmas Island Time
GMT+08:00 (HKT)	1097	Hong Kong Time
GMT+08:00 (CST)	1098	Central Standard Time
GMT+08:00 (BNT)	1099	Brunei Darussalam Time
GMT+08:00 (WST)	1100	West Samoa Time
GMT+09:00 (IRKST)	1101	Irkutsk Summer Time
GMT+08:00 (MYT)	1102	Malaysia Time
GMT+08:00 (PHT)	1103	Philippine Time
GMT+08:00 (SGT)	1104	Singapore Time
GMT+08:00 (BORT)	1105	Borneo Time
GMT+08:00 (ULAT)	1106	Ulan Bator Time
GMT+09:00 (JAYT)	1107	Jayapura Time
GMT+09:00 (KST)	1108	Korean Standard Time
GMT+09:00 (JST)	1109	Japan Standard Time
GMT+10:00 (YAKT)	1110	Yakutsk Time
GMT+09:00 (PWT)	1111	Palau Time
GMT+10:00 (EST)	1112	Australia Eastern Standard Time
GMT+10:00 (DDUT)	1113	Dumont-d'Urville Time
GMT+11:00 (VLAT)	1114	Vladivostok Time
GMT+10:00 (ChST)	1115	Chamorro Standard Time
GMT+10:00 (PGT)	1116	Papua New Guinea Time
GMT+10:00 (TRUT)	1117	Truk Time
GMT+12:00 (MAGT)	1118	Magadan Time
GMT+11:00 (VUT)	1119	Vanuatu Time
GMT+11:00 (SBT)	1120	Solomon Islands Time
GMT+11:00 (KOST)	1121	Kosrae Time
GMT+11:00 (NCT)	1122	New Caledonia Time
GMT+11:00 (PONT)	1123	Ponape Time
GMT+12:00 (NZST)	1124	New Zealand Standard Time
GMT+12:00 (ANAST)	1125	Anadyr Time
GMT+12:00 (PETST)	1126	Petropavlovsk-Kamchatski Time
GMT+12:00 (FJT)	1127	Fiji Time
GMT+12:00 (TVT)	1128	Tuvalu Time
GMT+12:00 (MHT)	1129	Marshall Islands Time
GMT+12:00 (NRT)	1130	Nauru Time

GMT+12:00 (GILT)	1131	Gilbert Island Time
GMT+12:00 (WAKT)	1132	Wake Time
GMT+12:00 (WFT)	1133	Wallis and Futuna Time
GMT+08:00 (CST)	1134	Cuba Standard Time
GMT+03:30 (IRST)	1135	Iran Standard Time
GMT+05:30 (IST)	1136	India Standard Time
GMT-03:30 (NST)	1137	Newfoundland Standard Time (NST)
GMT-03:00 (BET)	1138	Brazil Eastern Time

Appendix C Product Documentation

Please visit this [link](#) for the documentation on all Ahsay Products.