



Ahsay Cloud Backup Suite 7

API Guide

Ahsay Systems Corporation Limited

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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	/usr/local/cbs/conf
□	Graphical Interface Elements	[Manage Log]
%%	Filepath in Windows format	%CBS_HOME%
\$	Filepath in Linux/Unix/BSD format	\$CBS_HOME
<i>italic</i>	Command	mkdir /usr/local/cbs

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.

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> C:\Program Files\AhsayCBS <u>Linux</u> /usr/local/cbs/
CONF_HOME	The directory to store AhsayCBS configuration files. <u>Windows</u> %CBS_HOME%\conf <u>Linux</u> \$CBS_HOME/conf
USER_HOMES	The directories where AhsayCBS store the AhsayOBM & AhsayACB users accounts. The default location is: %CBS_HOME%\users
POLICY_HOME	The directory where AhsayCBS store its system users and group policy information. <u>Windows</u> %CBS_HOME%\system\policy <u>Linux</u> \$CBS_HOME/system/policy
SYSTEM_HOME	The directory where AhsayCBS store its system information. <u>Windows</u> %CBS_HOME%\system\ <u>Linux</u> \$CBS_HOME/system\
WEBAPPS_HOME	Location of the webapps directory inside the installation directory of AhsayCBS. <u>Windows</u> %CBS_HOME%\webapps. <u>Linux</u> \$CBS_HOME/webapps
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 new APIs which is JSON (JavaScript Object Notation) based JavaScript syntax. It can be read and used as a data format by any programming language.

New API can be invoked by using post method. For backward compatible, we support some APIs in version 6, however for the support of new features in AhsayCBS, we recommend programmers to change their existing coding with the use of the new JSON syntax API.

Here is a sample of the input:

```
{  
    "SysUser": "APluser",  
    "SysPwd": "my_password",  
    "Hostname": "mybackup.com",  
    "UserHomes": [ "CBS", "FTP", "Cloud1" ],  
    :  
    :  
    :  
    :  
}
```

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

If you are using old API from version v6 or earlier, it will not support new features in AhsayCBS v7. Please convert your API's to JSON format in order to use them for AhsayCBS v7.

To allow your program to use the API, you are suggested to register an API user which has administrative role from your AhsayCBS. All the API with the parameters **SysUser** and **SysPwd** are refer to the Admin users or API user type.

Note:

- ▶ Please do your coding with the support of UTF-8.
- ▶ When testing your API, ensure that you have all the parameters or settings are setup on your AhsayCBS.
- ▶ Please arrange your test case in a logical sequence, such as creating a backup set before attempting to modify / delete a backup set with the API.

2.3 IP Restrictions

To avoid AhsayCBS's APIs from being exploited by hackers from an unauthorized network, AhsayCBS, by default, accepts and handles only the API requests originating from the same local machine. To loosen this restriction, please do the following:

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

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

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

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

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

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 above) 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>0.0.0-255.255.255.255</param-value>
</init-param>
</filter>
...

```

For example, changing [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 the APIs.

web.xml (Updated)

```

...
<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>
...

```

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 AhsayCBS.

2.4 Troubleshooting

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

- ➊ Syntax errors

Getlicense.do API Input Missing coma and double quote

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

Output

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

Correct input

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

Output

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

Missing the above syntax would cause critical errors.

UpdateConfig.do API input Missing pair []

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

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"}, {"Name": "New1", "Email": "New1"}]  
}
```

Output

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

The datatype of AdminContacts here is array. Pair [] must be added.

- ➋ Parameter names errors

Getlicense.do API Input Incorrect parameter name

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

Output

```
{  
    "Status": "Error",  
}
```

```
"Message": "java.lang.NullPointerException",
"ExptType": "java.lang.NullPointerException"
}
```

Correct input

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

Output

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

Parameter names are case-sensitive. Make sure the parameters names are exactly the same as our list in this document.

- ▶ Escape characters errors

AddSelectSrc.do API Input Character \ 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 to escape JAVA special characters.

Additional information

In the case that you think that the error message does not give enough information, please refer to the web console for details:

- ▶ [Dashboard] > [To Dos] > [API Errors]

The screenshot shows the AhsayCBS interface with the 'To Dos' tab selected. The main dashboard displays six categories of errors with their counts: Missed Backups (0), Failed Backups (0), System Errors (3), Replication Errors (0), API Errors (26), and Email Errors (0). Below this, a table lists detailed error logs from June 19, 2017, at 17:40:31. The table has columns for Timestamp, Login Name, Owner, and Message. One log entry is shown in detail:

Timestamp	Login Name	Owner	Message
19/06/2017 17:40:31	--	--	[API][ModifyUserStatus]com.ahsay.obs.core.dbs.Y: [UserCacheManager NoSuchUserException] User 'user1' not found. at com.ahsay.obs.core.dbs.Q.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 org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:241) at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:208) at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.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: If you still encounter errors after making sure no mistakes were made, please approach our [support team](#) for further assistance

3 System API

3.1 System Config

3.1.1 UpdateServerConfig - Backup Server

This API updates the Backup Server related configuration such as user home and free trial options.

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

- ▶ [\[Backup/Restore\]>\[Basic\]> \[User Home\] OR \[Free Trial Options\]](#)

URL:		
http://BACKUP_SERVER/obs/api/json/UpdateServerConfig.do		
Available since version:		
7.3		
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 of UserHome	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	String	Backup quota of trial user, in number of bytes
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.
Trial MySql	Boolean	Enable / Disable the trial of MySQL Database Server 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.
TrialVmQuota	String	VMware VM module quota. Enter integer value in string format.
TrialVmQuotaType	String	Available for AhsayCBS on 7.7.0.0 or above 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. Eg: "1" or "2" etc.
TrialVmQuotaType	String	Available for AhsayCBS on 7.7.0.0 or above 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.	
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	Supported from AhsayCBS v7.13.0.0 or above Enable / Disable the trial Open Direct/ Granular Restore add-on module.	
TrialOpenDirectQuota	String	Supported from AhsayCBS v7.13.0.0 or above 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.	
SincInactive	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:

UserHome		
Key	Type	Descriptions
Path	String	Path of user home, eg: "F:\\new_home"
Quota	String	<p>Maximum QPS ratio of the user home</p> <p>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" </p>

Example:

Input: Update userhomes
{ "SysUser": "api_user", "SysPwd": "abc123\$%", "UserHomes": [{ "Path": "F:\\home" }, { "Quota": "Unlimited" }, { "Path": "F:\\new_home" }] }

	<pre> }, { "Quota": "Unlimited" } } </pre>
	Output
	{"Status":"OK"}
	Input: Update module settings
	<pre> { "SysUser": "api_user", "SysPwd": "abc123\$%", "EnableFreeTrial": true, "TrialMsExchange": true } </pre>
	Output
	{"Status":"OK"}

3.1.2 UpdateConfig - Backup Server

This API updates the the following settings of AhsayCBS:

Proxy server;

Admin contacts;

System homes;

SNMP settings;

Windows Event Logs;

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

- ▶ [System Settings] > [Basic]> [General] OR [Email]
- ▶ [System Settings] >[Advanced]> [Proxy] OR [Logging]

URL:	http://BACKUP_SERVER/cbs/api/json/UpdateConfig.do	
Available since version:	7.5	
Parameters:		
Key		
SysUser	String	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password 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
SmtpServers	Array of SmtpServer	SmtpServers 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	If you need to exclude some hostnames and IP addresses for proxy

		ProxyExcludeHost	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	

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	
Port	String	
SysUser	String	
SysPwd	String	
MaxConn	String	Maximum number of connection allowed to server
MaxKeepAliveReq	String	
ConnTimeout	String	Connection timeout
SslCertificateId	String	Empty string if not applicable
Protocol	String	The value can be any one of the following: http https

SmtpServer		
Key	Type	Descriptions
HostName	String	
Port	Integer	
SecureProtocol	Boolean	
Auth	Boolean	
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	
Address	String	
ReceiveBccEmail	Boolean	

ProxyExcludeHost		
Key	Type	Descriptions
Host	String	

SnmpTrapRecv		
Key	Type	Descriptions
Enable	Boolean	
Host	String	
TrapPort	String	

Example:

Input
{"SysUser":"api_user", "SysPwd":"abc123\$%", "SendBccReports":true, "AdminContacts":[{"Name":"New1","Email":"New1"}] }
Output
{ >Status": "OK" }
Input 2 :
{"SysUser":"api_user", "SysPwd":"abc123\$%", "SendBccReports":true, "AdminContacts":[{"Name":"New1","Email":"New1"}] }
Output
{ >Status": "OK" }

3.1.3 GetSystemSetting - Backup Server

This API gets the Backup Server related configuration such as 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]

URL:																											
http://BACKUP_SERVER/obs/api/json/GetSystemSetting.do																											
Available since version:																											
7.3																											
Parameters:																											
<table border="1"> <thead> <tr> <th>Key</th> <th>Type</th> <th>Descriptions</th> </tr> </thead> <tbody> <tr> <td>SysUser</td> <td>String</td> <td>AhsayCBS's system users with admin role</td> </tr> <tr> <td>SysPwd</td> <td>String</td> <td>AhsayCBS's system users password with admin role</td> </tr> </tbody> </table>	Key	Type	Descriptions	SysUser	String	AhsayCBS's system users with admin role	SysPwd	String	AhsayCBS's system users password with admin role																		
Key	Type	Descriptions																									
SysUser	String	AhsayCBS's system users with admin role																									
SysPwd	String	AhsayCBS's system users password with admin role																									
Return Values:																											
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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																											
<table border="1"> <thead> <tr> <th>Key</th> <th>Type</th> <th>Descriptions</th> </tr> </thead> <tbody> <tr> <td>QuotaSum</td> <td>Array</td> <td></td> </tr> <tr> <td>Quota</td> <td>String</td> <td></td> </tr> <tr> <td>PasswordProtected</td> <td>Boolean</td> <td>Whether it is located at password protected network drive</td> </tr> <tr> <td>Password</td> <td>String</td> <td></td> </tr> <tr> <td>Username</td> <td>String</td> <td></td> </tr> <tr> <td>CurrentRatio</td> <td>String</td> <td>Current QPS Ratio</td> </tr> <tr> <td>Path</td> <td>String</td> <td>Path to the user home</td> </tr> <tr> <td>Size</td> <td>String</td> <td>Size of the user home</td> </tr> </tbody> </table>	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
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																									
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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"
	Sincelnactive	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.
	Trial MySql	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	Available for AhsayCBS on 7.7.0.0 or above 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	Available for AhsayCBS on 7.7.0.0 or above 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.
	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.
	TrialMobile	Boolean	The trial option of Mobile add-on module.
	TrialMobileQuota	String	The Quota of mobile add-on module.
	TrialOpenDirect	Boolean	Supported from AhsayCBS v7.13.0.0 or above The tria option of Open direct/Granular restore add-on module.
	TrialOpenDirectQuota	String	Supported from AhsayCBS v7.13.0.0 or above 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	

Example:

Input

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

Output

```
{
  "Status": "OK",
  "Data": {
    "TrialShadowProtectBareMetal": true,
    "TrialMsWinSysState": true,
    "TrialMsVmQuotaTypes": [
      "GUESTVM"
    ]
  }
}
```

```

    ],
    "TrialNasClient":true,
    "TrialOracle":true,
    "TrialVMware":true,
    "TrialVMwareQuota":"2",
    "BackupQuotaSize":"52428800",
    "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,
    "TrialMsSql":true,
    "TrialMsVmQuota":"2",
    "TrialCdp":true,
    "SuspendUserDays":30,
    "TrialNotes":true,
    "TrialWinServer2008BareMetal":true,
    "TrialShadowCopy":true,
    "ExpTrialStatus":"suspend",
    "TrialVMwareQuotaTypes": [
        ],
        "SinceInactive":false,
        "TrialMsExchangeMailbox":true,
        "TrialEMBQuota":"5",
        "EnableFreeTrial":true,
        "TrialMobileQuota":"0",
        "TrialVMwareQuotaType":"GUESTVM"
    }
}

```

3.1.4 UpdateReplicationConfig

This API updates the replication settings including:

Replication destination;
Replication Proxy server;
Replication traffic limit;
Replication backup set;

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

- ▶ [Replication]>[Sending Data]>[Replication]

URL:																																				
http://BACKUP_SERVER/obs/api/json/UpdateReplicationConfig.do																																				
Available since version:																																				
7.3																																				
Parameters:																																				
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JSON Objects:																																				
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MaxTransferPerSec	String	Maximum number of KBytes transferred per second																																		
Example:																																				
<table border="1"> <thead> <tr> <th>Input</th></tr> </thead> <tbody> <tr> <td>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "EnableReplication": true, "ReplicationUseTrafficLimit": true, "TrafficLimits": [{ "StartDayOfWeek": "4", "StartHour": "3", "EndDayOfWeek": "5", "EndHour": "18", "MaxTransferPerSec": "1000000000" }] }</td></tr> </tbody> </table>	Input	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "EnableReplication": true, "ReplicationUseTrafficLimit": true, "TrafficLimits": [{ "StartDayOfWeek": "4", "StartHour": "3", "EndDayOfWeek": "5", "EndHour": "18", "MaxTransferPerSec": "1000000000" }] }																																		
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{ "SysUser": "api_user", "SysPwd": "abc123\$%", "EnableReplication": true, "ReplicationUseTrafficLimit": true, "TrafficLimits": [{ "StartDayOfWeek": "4", "StartHour": "3", "EndDayOfWeek": "5", "EndHour": "18", "MaxTransferPerSec": "1000000000" }] }																																				

	<pre> "StartMin":"30", "EndDayOfWeek":5, "EndHour":4, "EndMin":30, "MaxTransferPerSec":300 }] } </pre>
	Output
	{"Status":"OK"}

3.1.5 UpdateLicense

This API updates the licensee name and license key on the AhsayCBS server for backup server.

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

- *[System Settings]>[License]> [Backup]*

URL:	http://BACKUP_SERVER/obs/api/json/UpdateLicense.do	
Available since version:	7.3	
Parameters:		
Key	Type	Descriptions
SysUser	String	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password 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		
{ "SysUser":"api_user", "SysPwd":"abc123\$%", "Licensee": "ABC_Backup", "Key": "XyZ98-AbcDE-fGhIJ-98bcd-YZ" }		
Output 1 license status normal		
{ "Status":"OK", "Key": "XyZ98-AbcDE-fGhIJ-98bcd-YZ", "Deactivated":false, "Licensee": "ABC_Backup" }		
Output 2 Click the Update button in web console		
{ "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 Incorrect license key		
{ "Status":"Error", "Message": "License key incorrect. Please try again." }		

Output 4 Server stopped

```
{
  "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"
}
```

3.1.6 GetLicense

This API collects the license and usage information from the AhsayCBS server.

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

- *[System Settings]>[License]> [Backup]*

URL:		
http://BACKUP SERVER/obs/api/json/GetLicense.do		
Available since version:		
7.3		
Parameters:		
Key	Type	Descriptions
SysUser	String	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password 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.
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	Available for AhsayCBS on 7.7.0.0 or above The Hyper-V socket quota.
	UsedMsVmSocketQuota	String	Available for AhsayCBS on 7.7.0.0 or above Used Hyper-V socket quota.
	RemainMsVmSocketQuota	String	Available for AhsayCBS on 7.7.0.0 or above 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	Available for AhsayCBS on 7.7.0.0 or above The VMware socket quota.
	UsedVMwareSocketQuota	String	Available for AhsayCBS on 7.7.0.0 or above Used VMware socket quota.
	RemainVMwareSocketQuota	String	Available for AhsayCBS on 7.7.0.0 or above Remaining VMware socket quota.
	EnableMobile	Boolean	Available for AhsayCBS on 7.9.0.0 or above
	MobileQuota	String	Available for AhsayCBS on 7.9.0.0 or above
	UsedMobileQuota	String	Available for AhsayCBS on 7.9.0.0 or above
	RemainMobileQuota	String	Available for AhsayCBS on 7.9.0.0 or above
	EnableOffice365Mail	Boolean	Enable / Disable the use of Office 365 mail quota.
	Office365MailQuota	String	Available for AhsayCBS on 7.9.0.0 or above Office 365 mail quota.
	UsedOffice365MailQuota	String	Available for AhsayCBS on 7.9.0.0 or above Used Office 365 mail quota.
	RemainOffice365MailQuota	String	Available for AhsayCBS on 7.9.0.0 or above Remaining Office 365 mail quota.
	OpenDirectQuota	String	Supported from AhsayCBS v7.13.0.0 or above Granular restore/ open direct quota
	UsedOpenDirectQuota	String	Supported from AhsayCBS v7.13.0.0 or above Used Granular restore quota.
	RemainOpenDirectQuota	String	Supported from AhsayCBS v7.13.0.0 or above Remaining Granular restore quota.
	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.
	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.

Example:

Input

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

Output

```
{
  "Status": "OK",
  "Data": {
    "RemainVMwareQuota": "2000",
    "RemainVMwareSocketQuota": "0",
    "Key": "XyZ98-AbcDE-fGhIJ-98bcd-YZ",
    "MaxAcbUsers": "2000",
    "UsedObmQuota": "0",
    "UsedMobileQuota": "0",
    "LicenseUnlimited": false,
    "MaxObmUsers": "5100",
    "RemainObmQuota": "5100",
    "ProductName": "Offsite Backup Software, OEM Edition",
    "Version": "7.7.0.0",
  }
}
```

```

    "MaxQuota":"UNLIMITED",
    "ExchangeMailboxQuota":"2000",
    "EnableReplication":false,
    "UsedAcbQuota":"0",
    "UsedExchangeMailboxQuota":"0",
    "EnableHa":false,
    "EnableNasClient":true,
    "Deactivated":false,
    "EnableUbs":false,
    "VmwareSocketQuota":"0",
    "ConnectExpt":false,
    "UsedVMwareSocketQuota":"0",
    "AcbUseObm":0,
    "ExpiryDate":"2016/12/31",
    "Port":"60080",
    "RemainNasClientQuota":"10",
    "Mac":"00-23-AE-79-8B-E7, 00-FF-90-F9-7D-8A",
    "RemainMsVmQuota":"2000",
    "RemainExchangeMailboxQuota":"2000",
    "Ip":"192.168.192.1",
    "UsedVMwareQuota":"0",
    "EnableVMware":true,
    "EnableMSEExchangeMailbox":true,
    "LicenseFile":"",
    "SupExpDate":"2016/12/31",
    "UsedNasClientQuota":"0",
    "BrandedProductName":"",
    "MsVmQuota":"2000",
    "EnableNasServer":false,
    "RemainAcbQuota":"2000",
    "EnableMsVm":true,
    "LicType":4,
    "MaxUsers":"5100",
    "MsVmSocketQuota":"0",
    "Licensee":"ABC_Backup",
    "FormattedLicTestConnTime":"",
    "RemainMsVmSocketQuota":"0",
    "Description":"",
    "RemainMobileQuota":"0",
    "MobileQuota":"0",
    "LicTestConnTime":"-1",
    "NasClientQuota":"10",
    "UsedMsVmQuota":"0",
    "RequestFreeLic":false,
    "UsedMsVmSocketQuota":"0",
    "AcbClientEnabled":false,
    "VmwareQuota":"2000",
    "LicTypeName":"OEM License",
    "DagUseObm":0,
    "UseProxy":false,
    "EnableMobile":false,
    "LicTestConnResult":""
}
}

```

Note: Sample license key with sample output.

3.1.7 GetReplicationMode

This API gets the current replication status on the backup server.

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

- ▶ *[Monitoring]>[Replication Logs]*

URL:	http://BACKUP_SERVER/obs/api/json/GetReplicationMode.do																					
Available since version:	7.7																					
Parameters:																						
<table border="1"> <thead> <tr> <th>Key</th><th>Type</th><th>Descriptions</th></tr> </thead> <tbody> <tr> <td>SysUser</td><td>String</td><td>AhsayCBS's system users with admin role</td></tr> <tr> <td>SysPwd</td><td>String</td><td>AhsayCBS's system users password with admin role</td></tr> </tbody> </table>			Key	Type	Descriptions	SysUser	String	AhsayCBS's system users with admin role	SysPwd	String	AhsayCBS's system users password with admin role											
Key	Type	Descriptions																				
SysUser	String	AhsayCBS's system users with admin role																				
SysPwd	String	AhsayCBS's system users password with admin role																				
Return Values:																						
<table border="1"> <thead> <tr> <th>Key</th><th>Type</th><th>Descriptions</th></tr> </thead> <tbody> <tr> <td>Status</td><td>String</td><td>"OK" or "Error"</td></tr> <tr> <td>Data</td><td>ReplicationData</td><td></td></tr> <tr> <td>Message</td><td>String</td><td>Error message, it exists only if status is "Error"</td></tr> <tr> <td>ExptType</td><td>String</td><td>The type of exception, it exists only if status is "Error"</td></tr> </tbody> </table>			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"					
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:																						
<table border="1"> <thead> <tr> <th>ReplicationData</th><th>Key</th><th>Type</th><th>Descriptions</th></tr> </thead> <tbody> <tr> <td></td><td>Enable</td><td>Boolean</td><td>Enable / Disable of the replication.</td></tr> <tr> <td></td><td>Replicators</td><td>Array of Replicator</td><td></td></tr> </tbody> </table>			ReplicationData	Key	Type	Descriptions		Enable	Boolean	Enable / Disable of the replication.		Replicators	Array of Replicator									
ReplicationData	Key	Type	Descriptions																			
	Enable	Boolean	Enable / Disable of the replication.																			
	Replicators	Array of Replicator																				
<table border="1"> <thead> <tr> <th>Replicator</th><th>Key</th><th>Type</th><th>Descriptions</th></tr> </thead> <tbody> <tr> <td></td><td>LoginName</td><td>String</td><td>Client user name</td></tr> <tr> <td></td><td>BackupSetID</td><td>String</td><td>The 13 digit backup set ID.</td></tr> <tr> <td></td><td>Mode</td><td>String</td><td>The value can be any one of the following: RESYNC REPLAY PENDING SLEEPING</td></tr> <tr> <td></td><td>File</td><td>String</td><td>The file that is currently replicating.</td></tr> </tbody> </table>			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.
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:																						
<table border="1"> <thead> <tr> <th>Input</th><th>Output</th><th></th></tr> </thead> <tbody> <tr> <td> <pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%" }</pre> </td><td> <pre>{ "Status": "OK", "Data": { "Enable": true, "Replicators": [{ "LoginName": "userA", "File": "", "BackupSetID": "1463141188151", "Mode": "RESYNC" }] } }</pre> </td><td></td></tr> </tbody> </table>			Input	Output		<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%" }</pre>	<pre>{ "Status": "OK", "Data": { "Enable": true, "Replicators": [{ "LoginName": "userA", "File": "", "BackupSetID": "1463141188151", "Mode": "RESYNC" }] } }</pre>															
Input	Output																					
<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%" }</pre>	<pre>{ "Status": "OK", "Data": { "Enable": true, "Replicators": [{ "LoginName": "userA", "File": "", "BackupSetID": "1463141188151", "Mode": "RESYNC" }] } }</pre>																					

3.2 System User

3.2.1 AddSysUser

This API adds system users.

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

- ▶ [System Settings]>[Basic]> [Administrative Access]

URL:		
http://BACKUP_SERVER/obs/api/json/AddSysUser.do		
Available since version:		
7.3		
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	Login name of the system user
Password	String	
Role	String	Role of the system account The value can be set to one of the following: ADMIN READ_ONLY_ADMIN RESELLER API_ONLY
Hostname	String	Mandatory if "Role" is set to RESELLER
IP	String	Mandatory 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\$%", "Role":"API_ONLY" }		
Output		
{"Status":"OK"}		
Output 2 User already exist		
{ "Status": "Error", "Message": "Name is already used. Please use another name.", "ExptType": "java.lang.Exception" }		

3.2.2 UpdateSysUser

This API changes the password of a system user.

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

- ▶ *[System Settings]>[Basic]> [Administrative Access]*

URL:		
http://BACKUP_SERVER/obs/api/json/UpdateSysUser.do		
Available since version:		
7.3		
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	Login name of the system user
Password	String	
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": "password", "LoginName": "admin123", "Password": "changepassword" }		
Output		
{"Status": "OK"}		
Input Missing LoginName		
{ "SysUser": "system", "SysPwd": "password", "Password": "changepassword" }		
Output		
{ "Status": "Error", "Message": "[Error] Parameter LoginName is null/empty!", "ExptType": "com.ahsay.obs.core.dbs.c" }		

3.2.3 RemoveSysUser

This API removes a system user

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

- ▶ *[System Settings]>[Basic]> [Administrative Access]*

URL:
http://BACKUP_SERVER/obs/api/json/RemoveSysUser.do
Available since version:
7.3
Parameters:

Key	Type	Descriptions
SysUser	String	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password 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"}		
Input 2 System user does not exist		
{ "SysUser": "admin", "SysPwd": "password", "RemoveLoginName": "dummy" }		
Output		
{ "Status": "Error", "Message": "System user 'dummy' does not exist", "ExptType": "org.json.JSONException" }		

3.2.4 AuthSystemUser

This API checks whether the SysUser has admin right or not.

If the SysUser is of type read-only or API, return status will be error. The return status would be OK otherwise.

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

- ▶ [System Settings]>[Basic]> [Administrative Access]

URL:		
http://BACKUP_SERVER/obs/api/json/AuthSystemUser.do		
Available since version:		
7.3		
Parameters:		
Key	Type	Descriptions
SysUser	String	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password 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 Admin role		
{ "SysUser": "Admin", }		

```
    "SysPwd": "password"  
}
```

Output

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

Input Read-only 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:		
ListSystemUsers.do">http://BACKUP_SERVER/obs/api/json>ListSystemUsers.do		
Available since version:		
7.3		
Parameters:		
Key	Type	Descriptions
SysUser	String	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password with admin role
RoleOnly	Boolean	List the role of system users only
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
HashedPwd	String	
Example:		
Input		
{ "SysUser": "Admin", "SysPwd": "password" }		
Output		
{ "Status": "OK", "Data": [{ "Name": "SysUser", "HashedPwd": "u8XmYeEGxtzY3G3RhkVML8ujxxD7TY5xpgyT6vB38HM=", "Role": "READ_ONLY_ADMIN" }, { "Name": "SysUser", "HashedPwd": "u8XmYeEGxtzY3G3RhkVML8ujxxD7TY5xpgyT6vB38HM=", "Role": "READ_ONLY_ADMIN" }] }		

```
        "Name": "dummySysUser",
        "HashedPwd": "taLJYIBhl2bqJy/6xtl0Sq9LRarNlqp8/Lkx7jtVgIk=",
        "Role": "ADMIN"
    },
    {
        "Name": "system",
        "HashedPwd": "u8XmYeEGxtzY3G3RhkVML8ujxxD7TY5xpgyT6vB38HM=",
        "Role": "ADMIN"
    }
]
```

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:		
http://BACKUP_SERVER/obs/api/json/AddUserGroup.do		
Available since version:		
7.3		
Parameters:		
Key	Type	Descriptions
SysUser	String	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password with admin role
UserGroupName	String	Group name
Type	String	The value can be any one of the following: backup-user (Default value) system-user
BillingOption	String	The value can be any one of the following: group (Default value) individual
UserIdList	String	Multiple login names, separated by commas, are accepted. For example: user1,user2,user3
PolicyIDList	Array of String	Array of policy ID
EditBillingContactBeanList	Array of EditBillingContactBean	Contact list
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		
{		

	<pre> "Status": "Error", "Message": "The user group name is already in use", "ExptType": "java.lang.Exception" } </pre>
	Input Add user group and assign policy
	<pre> { "SysUser": "api_user", "SysPwd": "abc123\$%", "UserGroupName": "test-usergroup", "PolicyIDList": ["1498011529749"] }:"user-group" } </pre>
	Output
	<pre>{"Status": "OK", "ID": "1447039919940"}</pre>

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:		
http://BACKUP_SERVER/obs/api/json/DeletePolicyGroup.do		
Available since version:		
7.3		
Parameters:		
Key	Type	Descriptions
SysUser	String	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password 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:		
http://BACKUP_SERVER/obs/api/json/DeletePolicyGroupFromUserGroup.do		
Available since version:		
7.3		
Parameters:		
Key	Type	Descriptions
SysUser	String	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password 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:		
http://BACKUP_SERVER/obs/api/json/DeleteUserFromUserGroup.do		
Available since version:		
7.3		
Parameters:		
Key	Type	Descriptions
SysUser	String	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password with admin role
ID	String	ID of User Group
UserIdList	String	String of User 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:		
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:	http://BACKUP_SERVER/obs/api/json/DeleteUserGroup.do	
Available since version:		
7.3		
Parameters:		
Key	Type	Descriptions
SysUser	String	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password 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

This API lists a detailed settings information of a policy group.

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

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

URL:		
ListPolicyGroups.do">http://BACKUP_SERVER/obs/api/json>ListPolicyGroups.do		
Available since version:		
7.3		
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	User name
PolicyGroupNameOnly	Boolean	Default value is false
Return Values:		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	NameInfo or PolicyGroup	If PolicyGroupNameOnly is true, 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
ID	String	
Type	String	The value can be one of the following: BACKUP_USER SYSTEM_USER
PreemptedValues	PreemptedValues	
UserSettings	UserSettings	
GuiSettings	GuiSettings	
PreemptedBackupSetSettings	PreemptedBackupSetSettings	
BackupSetSettings	BackupSetSettings	
DefaultValues	DefaultValues	
PreemptedValues		
Key	Type	Descriptions
VmwareSettingsList	VmwareSettingsList	
VolumeShadowCopySettingsList	VolumeShadowCopySettingsList	
AllowedIPSettingsList	AllowedIPSettingsList	
FollowLinkSettingsList	FollowLinkSettingsList	
InFileDeltaSettingsList	InFileDeltaSettingsList	

		ttingsList	
	CompressionsSettingsList	Compression sSettingsList	
	WinUserAuthSettingsList	WinUserAuth SettingsList	
	FileSettingsList	FileSettingsLi st	
	GranularRestoreSettingsLi st	GranularRest oreSettingsLi st	Supported from AhsayCBS v7.13.0.0 or above
	OpenDirectSettingsList		Supported from AhsayCBS v7.13.0.0 or above
	MswindowsSystemStateSettin gsList	MswindowsS ystemStateS ettingsList	
	DestinationSettingsList	DestinationS ettingsList	
	BandwidthControlSettingsList	BandwidthCo ntrolSettingsL ist	
	NameSettingsList	NameSetting sList	
	MySQLSettingsList	MySQLSettin gsList	
	FilePermissionsSettingsList	FilePermissio nsSettingsLis t	
	RetentionPolicySettingsList	RetentionPoli cySettingsList	
	ShadowProtectSettingsList	ShadowProte ctSettingsList	
	AdvancedSettingsList	AdvancedSet tingsList	
	CommandSettingsList	CommandSet tingsList	
	TemporaryDirectorySettingsLi st	TemporaryDir ecitorySetting sList	
	OracleSettingsList	OracleSetting sList	
	LotusNotesSettingsList	LotusNotesS ettingsList	
	ReminderSettingsList	ReminderSett ingsList	
	FilterSettingsList	FilterSettings List	
	MswindowsSystemSettingsLis t	MswindowsS ystemSetting sList	
	LotusDominoSettingsList	LotusDomino SettingsList	
	ScheduleSettingsList	ScheduleSetti ngsList	
	EncryptionSettingsList	EncryptionSe ttingsList	
	ArchivedLogDeletionSettingsL ist	ArchivedLog DeletionSetti ngsList	
	CdpSettingsList	CdpSettingsL ist	
	GranularRestoreSettingsList		
	Key	Type	Descriptions
	Enable	Boolean	
	List	Array of GranularRest oreSetting	
	VmwareSettingsList		
	Key	Type	Descriptions
	Enable	Boolean	
	List	Array of	

	VmwareSetting	
OpenDirectSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array of OpenDirectSetting	
VmwareSetting		
Key	Type	Descriptions
Host	String	
Port	String	
Username	String	
Password	String	
Sshport	String	Port for ssh
Id	String	
Version	String	
AutoEnableCBT	Boolean	Changed Block Tracking
AppliedValueSettings	AppliedValue Settings	
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 of String	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

		<p>be one of the following:</p> <p>8 (For Microsoft Exchange Server 2007) 14 (For Microsoft Exchange Server 2010) 15 (For Microsoft Exchange Server 2013) DAG (For Microsoft Exchange Server 2010 (Database Availability Group)) DAG13 (For Microsoft Exchange Server 2013 (Database Availability Group))</p> <p>For Microsoft Hyper-V module, the value can be 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)</p>
VolumeShadowCopySettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array of VolumeShadowCopySetting	
VolumeShadowCopySetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
AppliedValueSettings	AppliedValue Settings	
AllowedIPSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array of AllowedIPSetting	
AllowedIPSetting		
Key	Type	Descriptions
Id	String	
AllowedIPList	Array of AllowedIP	
AppliedValueSettings	AppliedValue Settings	
AllowedIP		
Key	Type	Descriptions
Id	String	
StartIP	String	
EndIP	String	
FollowLinkSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array of FollowLinkSetting	
FollowLinkSetting		
Key	Type	Descriptions
Enable	Boolean	

	Id	String																																													
	AppliedValueSettings	AppliedValue Settings																																													
InFileDeltaSettingsList																																															
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CompressionsSettingsList																																															

Key	Type	Descriptions
Enable	Boolean	
List	Array of CompressionSetting	
CompressionsSetting		
Key	Type	Descriptions
Id	String	
Type	String	The value can be empty, or one of the following: GzipDefaultCompression GzipBestSpeedCompression
AppliedValueSettings	AppliedValueSettings	
WinUserAuthSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array of WinUserAuthSetting	
WinUserAuthSetting		
Key	Type	Descriptions
Id	String	
Domain	String	
Password	String	
Username	String	
AppliedValueSettings	AppliedValueSettings	
FileSettingsList		
Key	Type	Descriptions
Id	String	
WindowsOutlook	Boolean	
WindowsOutlookExpress	Boolean	
WindowsDesktop	Boolean	
WindowsFavourites	Boolean	
WindowsMail	Boolean	
Version	String	
WindowsMyDocuments	Boolean	
WindowsLiveMail	Boolean	
AppliedValueSettings	AppliedValueSettings	
MswindowsSystemStateSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array of MswindowsSystemStateSetting	
MswindowsSystemStateSetting		
Key	Type	Descriptions
Id	String	
Version	String	
BackupTarget	String	
AppliedValueSettings	AppliedValueSettings	
DestinationSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array of	

		DestinationSetting	
DestinationSetting			
Key	Type	Descriptions	
Id	String		
SystemDestinationIDList	Array of String		
DestinationList	Array of Destination		
SystemDestinationList	Array of Destination		
AppliedValueSettings	AppliedValue Settings		
Destination			
Key	Type	Descriptions	
Id	String		
BandwidthControlSettingsList			
Key	Type	Descriptions	
Enable	Boolean		
List	Array of BandwidthControlSetting		
BandwidthControlSetting			
Key	Type	Descriptions	
Enable	Boolean		
Id	String		
BandwidthControlList	Array of BandwidthControl		
Mode	String	The value can be one of the following: independent share	
AppliedValueSettings	AppliedValue Settings		
BandwidthControl			
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 of NameSetting		
NameSetting			
Key	Type	Descriptions	
Id	String		
Name	String		
AppliedValueSettings	AppliedValue Settings		
MySQLSettingsList			

Key	Type	Descriptions
Enable	Boolean	
List	Array of MySQLSetting	
MySQLSetting		
Key	Type	Descriptions
Id	String	
Host	String	
Port	String	
Username	String	
Password	String	
MysqldumpPath	String	
Version	String	
AppliedValueSettings	AppliedValueSettings	
FilePermissionsSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array of FilePermissionsSetting	
FilePermissionsSetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
AppliedValueSettings	AppliedValueSettings	
RetentionPolicySettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array of RetentionPolicySetting	
RetentionPolicySetting		
Key	Type	Descriptions
Id	String	
Period	Long	
OverlapSensitive	Boolean	
AdvancedRetentionPolicyList	Array of AdvancedRetentionPolicy	
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	AppliedValueSettings	
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 of ShadowProtectSetting		
ShadowProtectSetting			
Key	Type	Descriptions	
Id	String		
EncryptionAlgorithm	Long		
EncryptionPassword	String		
Version	String		
InstallLocation	String		
AppliedValueSettings	AppliedValueSettings		
AdvancedSettingsList			
Key	Type	Descriptions	
Enable	Boolean		
List	Array of AdvancedSetting		
AdvancedSetting			
Key	Type	Descriptions	
Id	String		
DeselectedSourceList	Array of String		
SelectedSourceList	Array of String		
Enable	Boolean		
AppliedValueSettings	AppliedValueSettings		
CommandSettingsList			
Key	Type	Descriptions	
Enable	Boolean		
List	Array of CommandSetting		
CommandSetting			
Key	Type	Descriptions	
Id	String		
PreCommandList	Array of Command		
PostCommandList	Array of Command		

	AppliedValueSettings	AppliedValue Settings	
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 of TemporaryDir ecotorySetting		
OracleSettingsList			
Key	Type	Descriptions	
Enable	Boolean		
List	Array of OracleSetting		
OracleSetting			
Key	Type	Descriptions	
Id	String		
Host	String		
Port	String		
LoginID	String		
Password	String		
Sid	String		
Version	String		
AppliedValueSettings	AppliedValue Settings		
LotusNotesSettingsList			
Key	Type	Descriptions	
Enable	Boolean		
List	Array of LotusNotesS etting		
LotusNotesSetting			
Key	Type	Descriptions	
Id	String		
NotesIniPath	String		
Version	String		
AppliedValueSettings	AppliedValue Settings		
ReminderSettingsList			
Key	Type	Descriptions	
Enable	Boolean		
List	Array of ReminderSett ing		
ReminderSetting			
Key	Type	Descriptions	
OfflineNotificationDay	Long		

	BackupIntervalHour	Long	
	OfflineBackupEnabled	Boolean	
	OfflineBackupReminderComputerName	String	
	BackupIntervalDay	Long	
	ShowOfflineBackupReminder	Boolean	
	LogoutBackupReminderEnabled	Boolean	
	LogoutBackupReminderComputerName	String	
	Id	String	
	AppliedValueSettings	AppliedValueSettings	
FilterSettingsList			
	Key	Type	Descriptions
	Enable	Boolean	
	List	Array of FilterSetting	
FilterSetting			
	Key	Type	Descriptions
	Enable	Boolean	
	Id	String	
	FilterList	Array of Filter	
	AppliedValueSettings	AppliedValueSettings	
Filter			
	Key	Type	Descriptions
	Name	String	
	PatternList	Array of Pattern	
	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 of MswindowsSystemSetting	
MswindowsSystemSetting			
	Key	Type	Descriptions
	Id	String	
	Version	String	
	BackupTarget	String	

	AppliedValueSettings	AppliedValue Settings	
LotusDominoSettingsList			
Key	Type	Descriptions	
Enable	Boolean		
List	Array of LotusDomino Setting		
LotusDominoSetting			
Key	Type	Descriptions	
Id	String		
Version	String		
NotesIniPath	String		
AppliedValueSettings	AppliedValue Settings		
ScheduleSettingsList			
Key	Type	Descriptions	
Enable	Boolean		
List	Array of ScheduleSetting		
ScheduleSetting			
Key	Type	Descriptions	
Id	String		
Enable	Boolean		
ComputerName	String		
DailyScheduleList	Array of DailySchedule		
WeeklyScheduleList	Array of WeeklySchedule		
MonthlyScheduleList	Array of MonthlySchedule		
CustomScheduleList	Array of CustomSchedule		
AppliedValueSettings	AppliedValue Settings		
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 of Boolean	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 of EncryptionSetting	

EncryptionSetting		
Key	Type	Descriptions
KeyLength	Long	
Key	String	
Type	String	
Algorithm	String	
Mode	String	
Id	String	
AppliedValueSettings	AppliedValueSettings	

ArchivedLogDeletionSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array of ArchivedLogDeletionSetting	

ArchivedLogDeletionSetting		
Key	Type	Descriptions
Id	String	
Enable	Boolean	
Days	Long	
AppliedValueSettings	AppliedValueSettings	

CdpSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array of CdpSetting	

CdpSetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
Type	String	For v6, the value can be one of the following:

			<p>all-volume backup-source custom-source</p> <p>For 7, 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 of Filter	
	CdpBackupControlSettings	Array of CdpBackupControl	
	Version	String	<p>The value can be one of the following:</p> <p>6 7</p>
	SelectedSourceList	Array of String	
	AppliedValueSettings	AppliedValueSettings	
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	MaximumBackupSetsSettings		
BackupDestinationSettings	BackupDestinationSettings		
QuotaSettings	QuotaSettings		
EncryptionKeySettings	EncryptionKeySettings		
EmailReportSettings	EmailReportSettings		
PasswordSettings	PasswordSettings		

	LogonSettings	LogonSettings	
MaximumBackupSetsSettings			
	Key	Type	Descriptions
	Enable	Boolean	
	MaximumBackupSetsPerUser	Long	
BackupDestinationSettings			
	Key	Type	Descriptions
	ApplicationName	String	
	CustomDestinationList	Array of CustomDestination	
	SystemDestIDList	Array of String	
	SystemDestinationList	Array of SystemDestination	
CustomDestination			
	Key	Type	Descriptions
	Name	String	
	KeyName	String	<p>The value can be one of the following:</p> <p>com.ahsay.obx.cxp.cpf.policy.userSettings.LocalDestination com.ahsay.obx.cxp.cpf.policy.userSettings.AmazonCloudDriveDestination 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.userSetting.AliyunDestination</p>
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 of Contact	
Contact		
Key	Type	Descriptions
Id	String	
Name	String	
Email	String	
EncryptEmail	Boolean	
EmailCertificate	String	
Address	String	
Website	Boolean	
Company	String	
Phone1	String	
Phone2	String	
PasswordSettings		
Key	Type	Descriptions
Enable	Boolean	
Type	String	The value can be one 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 one of the following: MINUTE HOUR FOREVER
GuiSettings		
Key	Type	Descriptions
PrivilegeList	Array of Privilege	
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 of BackupSet	Refer to BackupSet JSON Object in ListBackupSets API
BackupSetSettings		
Key	Type	Descriptions
ExcludeFileSettings	ExcludeFileSettings	
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	VmwareSettingsList	
VolumeShadowCopySettingsList	VolumeShadowCopySettingsList	
AllowedIPSettingsList	AllowedIPSettingsList	
FollowLinkSettingsList	FollowLinkSettingsList	
InFileDeltaSettingsList	InFileDeltaSettingsList	
CompressionsSettingsList	CompressionsSettingsList	
WinUserAuthSettingsList	WinUserAuthSettingsList	
FileSettingsList	FileSettingsList	
MswindowsSystemStateSettingsList	MswindowsSystemStateSettingsList	
DestinationSettingsList	DestinationSettingsList	
BandwidthControlSettingsList	BandwidthControlSettingsList	
NameSettingsList	NameSettingsList	
MySQLSettingsList	MySQLSettingsList	
FilePermissionsSettingsList	FilePermissionsSettingsList	
RetentionPolicySettingsList	RetentionPolicySettingsList	
ShadowProtectSettingsList	ShadowProtectSettingsList	
AdvancedSettingsList	AdvancedSettingsList	
CommandSettingsList	CommandSettingsList	
TemporaryDirectorySettingsList	TemporaryDirectorySetting	

		sList	
	OracleSettingsList	OracleSetting sList	
	LotusNotesSettingsList	LotusNotesS ettingsList	
	ReminderSettingsList	ReminderSett ingsList	
	FilterSettingsList	FilterSettings List	
	MswindowsSystemSettingsLis t	MswindowsS ystemSetting sList	
	LotusDominoSettingsList	LotusDomino SettingsList	
	ScheduleSettingsList	ScheduleSetti ngsList	
	EncryptionSettingsList	EncryptionSe ttingsList	
	ArchivedLogDeletionSettingsL ist	ArchivedLog DeletionSetti ngsList	
	CdpSettingsList	CdpSettingsL ist	
	OpendirectSettingsList	OpendirectSe ttingsList	Supported from AhsayCBS v7.13.0.0 or above
	GranularRestoreSettingsList	GranularRest oreSettingsLi st	Supported from AhsayCBS v7.13.0.0 or above

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"
    }
  ]
}
```

Output

```
{
  "Status": "OK",
  "Data": [
    {
      "PolicyGroupName": "Default settings",
      "PolicyGroupID": "2"
    }
  ]
}
```

3.3.7 ListUserGroups

This API list information of a user group.

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

- ▶ [Backup/Restore]>[User, Groups & Policies]> [User group]

URL:	ListUserGroups.do">http://BACKUP_SERVER/obs/api/json>ListUserGroups.do																						
Available since version:	7.3																						
Parameters:																							
<table border="1"> <thead> <tr> <th>Key</th><th>Type</th><th>Descriptions</th></tr> </thead> <tbody> <tr> <td>SysUser</td><td>String</td><td>AhsayCBS's system users with admin role</td></tr> <tr> <td>SysPwd</td><td>String</td><td>AhsayCBS's system users password with admin role</td></tr> <tr> <td>UserGroupID</td><td>String</td><td>Returns information of the user group with this ID. If UserGroupID and UserID are not provided, information of all user groups will be returned.</td></tr> <tr> <td>UserID</td><td>String</td><td>Returns information of the user groups that the contain the user. If UserGroupID and UserID are not provided, information of all user groups will be returned..</td></tr> <tr> <td>UserGroupOnly</td><td>Boolean</td><td>Default value is false</td></tr> </tbody> </table>			Key	Type	Descriptions	SysUser	String	AhsayCBS's system users with admin role	SysPwd	String	AhsayCBS's system users password 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 the contain the user. If UserGroupID and UserID are not provided, information of all user groups will be returned..	UserGroupOnly	Boolean	Default value is false			
Key	Type	Descriptions																					
SysUser	String	AhsayCBS's system users with admin role																					
SysPwd	String	AhsayCBS's system users password 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.																					
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UserGroupOnly	Boolean	Default value is false																					
Return Values:																							
<table border="1"> <thead> <tr> <th>Key</th><th>Type</th><th>Descriptions</th></tr> </thead> <tbody> <tr> <td>Status</td><td>String</td><td>"OK" or "Error"</td></tr> <tr> <td>Data</td><td>UserGroupBasicInfo or UserGroupFullInfo</td><td>If UserGroupOnly is true, UserGroupBasicInfo is returned. Otherwise UserGroupFullInfo is returned.</td></tr> <tr> <td>Message</td><td>String</td><td>Error message, it exists only if status is "Error"</td></tr> <tr> <td>ExptType</td><td>String</td><td>The type of exception, it exists only if status is "Error"</td></tr> </tbody> </table>			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"						
Key	Type	Descriptions																					
Status	String	"OK" or "Error"																					
Data	UserGroupBasicInfo or UserGroupFullInfo	If UserGroupOnly is true, UserGroupBasicInfo is returned. Otherwise UserGroupFullInfo is returned.																					
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ExptType	String	The type of exception, it exists only if status is "Error"																					
JSON Objects:																							
UserGroupBasicInfo <table border="1"> <thead> <tr> <th>Key</th><th>Type</th><th>Descriptions</th></tr> </thead> <tbody> <tr> <td>ID</td><td>String</td><td></td></tr> <tr> <td>Name</td><td>String</td><td></td></tr> <tr> <td>Type</td><td>String</td><td>BACKUP_USER</td></tr> <tr> <td>Owner</td><td>String</td><td></td></tr> </tbody> </table>			Key	Type	Descriptions	ID	String		Name	String		Type	String	BACKUP_USER	Owner	String							
Key	Type	Descriptions																					
ID	String																						
Name	String																						
Type	String	BACKUP_USER																					
Owner	String																						
UserGroupFullInfo <table border="1"> <thead> <tr> <th>Key</th><th>Type</th><th>Descriptions</th></tr> </thead> <tbody> <tr> <td>ID</td><td>String</td><td></td></tr> <tr> <td>Name</td><td>String</td><td></td></tr> <tr> <td>Type</td><td>String</td><td>BACKUP_USER</td></tr> <tr> <td>Owner</td><td>String</td><td></td></tr> <tr> <td>Users</td><td>Array of User</td><td></td></tr> <tr> <td>PolicyGroup</td><td>Array of Policy</td><td></td></tr> </tbody> </table>			Key	Type	Descriptions	ID	String		Name	String		Type	String	BACKUP_USER	Owner	String		Users	Array of User		PolicyGroup	Array of Policy	
Key	Type	Descriptions																					
ID	String																						
Name	String																						
Type	String	BACKUP_USER																					
Owner	String																						
Users	Array of User																						
PolicyGroup	Array of Policy																						
User <table border="1"> <thead> <tr> <th>Key</th><th>Type</th><th>Descriptions</th></tr> </thead> <tbody> <tr> <td>LoginName</td><td>String</td><td>Client user name</td></tr> <tr> <td>Owner</td><td>String</td><td></td></tr> <tr> <td>UserId</td><td>String</td><td></td></tr> </tbody> </table>			Key	Type	Descriptions	LoginName	String	Client user name	Owner	String		UserId	String										
Key	Type	Descriptions																					
LoginName	String	Client user name																					
Owner	String																						
UserId	String																						
Policy <table border="1"> <thead> <tr> <th>Key</th><th>Type</th><th>Descriptions</th></tr> </thead> <tbody> <tr> <td>ID</td><td>String</td><td></td></tr> <tr> <td>Name</td><td>String</td><td></td></tr> </tbody> </table>			Key	Type	Descriptions	ID	String		Name	String													
Key	Type	Descriptions																					
ID	String																						
Name	String																						
Example:																							
Input																							

```
{
  "SysUser": "api",
  "SysPwd": "pwd",
  "UserGroupID": "1496990008001"
}
```

Output

```
{
  "Status": "OK",
  "Data": [
    {
      "Name": "ghellik",
      "Owner": "",
      "Type": "BACKUP_USER",
      "ID": "1496990008001"
    }
  ]
}
```

Example:

Input

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:

http://BACKUP_SERVER/obs/api/json/ModifyUserGroup.do

Available since version:

7.3

Parameters:

Key	Type	Descriptions
SysUser	String	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password 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

{

	<pre> "SysUser": "api_user", "SysPwd": "abc123\$%", "ID": "1447039919940", "UserIdList": "user", "Mode": "D" } </pre>
	Output
	{"Status": "OK"}
	Output 2 user not exist
	<pre> { "Status": "Error", "Message": "[UserCacheManager.NoSuchUserExpt] User 'user' not found.", "ExptType": "com.ahsay.obs.core.dbs.Y" } </pre>
	Input incorrect parameter mode
	<pre> { "SysUser": "api_user", "SysPwd": "abc123\$%", "ID": "1447039919940", "UserIdList": "user", "Mode": "S" } </pre>
	Output
	<pre> { "Status": "Error", "Message": "[Error] Parameter Mode must either be A or D!", "ExptType": "com.ahsay.obs.core.dbs.C" } </pre>

3.3.9 UpdatePolicyGroup

This API allows you to update the settings of a policy group.

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

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

URL:	http://BACKUP SERVER/obs/api/json/UpdatePolicyGroup.do	
Available since version:		
7.3		
Parameters:		
Key	Type	Descriptions
SysUser	String	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password with admin role
For other parameters, refer to PolicyGroup JSON Object in ListPolicyGroups 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		
	<pre> { "SysUser": "api_user", "SysPwd": "abc123\$%", "Name": "api-test-policy", "Owner": "", "PreemptedValues": { "VmwareSettingsList": { ... } } } </pre>	

```

        "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": [],
        "SystemDestIDList": [],
        "Enable": false,
        "SystemDestinationList": []
      },
      "QuotaSettings": {
        "SharedQuota": 10737418240,
        "MaxPercentage": 50,
        "Enable": true,
        "Compress": true,
        "SharedQuotaEnable": false
      },
      "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"
},
{
  "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",
  "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 - MS SQL Server"
}
```

```

        "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",
        "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",
    "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
  },
  {
    "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,
  "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",
}
```

```

        "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": []
    },
    "FilterSettingsList": {
        "Enable": false,
        "List": []
    },
    "MswindowsSystemSettingsList": {
        "Enable": false,
        "List": []
    }
}

```

	<pre> "LotusDominoSettingsList": { "Enable": false, "List": [] }, "ScheduleSettingsList": { "Enable": false, "List": [] }, "ArchivedLogDeletionSettingsList": { "Enable": false, "List": [] }, "EncryptionSettingsList": { "Enable": false, "List": [] }, "CdpSettingsList": { "Enable": false, "List": [] } } </pre>
	<p>Output</p> <pre>{"Status":"OK"}</pre>

4 User API

4.1 User

4.1.1 ListUsers

This API filters the user using different parameters and list all information related to the user. The related settings can be found on the AhsayCBS web console:

- ▶ [Backup/Restore]>[User, Groups & Policies]> [Backup User]

URL:		
ListUsers.do">http://BACKUP_SERVER/obs/api/json>ListUsers.do		
Available since version:		
7.3		
Parameters:		
Key	Type	Descriptions
SysUser	String	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password 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" or "ACB". Only that type of users are 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" or "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 or 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 or 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 or PAID. Default to TRIAL if not specified	
ClientType	String	ACB or OBM	
QuotaUsed	Integer	User quota used by the user	
Quota	Integer	Maximum backup usage allowed	
Online	Boolean		
Timezone	String	String of timezone, refer to Appendix for string	
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		
EnableMSExchange	Boolean		
MsExchangeQuota	Long		
EnableOracle	Boolean		
EnableLotusNotes	Boolean		
EnableLotusDomino	Boolean		
EnableMySQL	Boolean		
EnableInFileDelta	Boolean		
EnableShadowCopy	Boolean		
EnableExchangeMailbox	Boolean		
ExchangeMailboxQuota	Long		
EnableNASClient	Boolean		
EnableDeltaMerge	Boolean		
EnableMsVm	Boolean		
EnableOpenDirect	Boolean	Supported from AhsayCBS v7.13.0.0 or above	
OpenDirectQuota	Long	Supported from AhsayCBS v7.13.0.0 or above	
MsVmQuota	Long		
EnableVMware	Boolean		
VMwareQuota	Long	Number of Guest VM allowed	
Bandwidth	Long		
Notes	String		
Status	String	SUSPENDED or ENABLE	
RegistrationDate	Long		
SuspendPaidUser	Boolean		
SuspendPaidUserDate	String		
LastBackupDate	Long		
EnableCDP	Boolean		
EnableShadowProtectBareMetal	Boolean		
EnableWinServer2008BareMetal	Boolean	Add-on module of Windows system backup	
MsVmQuotaType	String	Value = "GUESTVM" or "SOCKET"	
VMwareQuotaType	String	Value = "GUESTVM" or "SOCKET"	
EnableMobile	Boolean		
MobileQuota	Long		
EnableOffice365Mail	Boolean		
Office365MailQuota	Long		
Hostname	String		
LdapUser	String		
LdapDeleteUser	Long		
LdapDisableUser	Long		
ExpiryDate	Long		
LatestClientVersion	String		
UserGroupIDList	Array of UserGroup	Array of user group ID	
UserHome	String		
Contact	Array of Contact		
UserGroup			

Key	Type	Descriptions	
UserGroupID	String		
UserGroupName	String		
ShowLink	Boolean		
Contact	Key	Type	Descriptions
Name	String		
Email	String		
Example:			
Input			
{ "SysUser":"api_user", "SysPwd":"abc123\$%" }			
Output			
{ "User": [{ "DataFile": 0, "LoginName": "Testscript", "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/Testscript", "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@gmail.com" }], }] }			

```

    "UserGroupIdList": [],
    "UserId": "Testscript",
    "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,
    "SuspendPaidUserDate": "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@gmail.com"
      }
    ],
    "UserGroupIdList": [],
    "UserId": "test1",
    "OpenDirectQuota": 3,
    "EnableWinServer2008BareMetal": false,
    "Status": "ENABLE",
    "Alias": "",
    "VMwareQuota": 0,
    "RetainFile": 0,
    "Language": ""
  }
]

```

```

        "EnableMobile": false,
        "EnableMSEExchange": 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,
        "SuspendPaidUserDate": "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@gmail.com"
            }
        ],
        "UserGroupIdList": [],
        "UserId": "test6",
        "OpenDirectQuota": 0,
        "EnableWinServer2008BareMetal": false,
        "Status": "SUSPENDED",
        "Alias": "",
        "VMwareQuota": 0,
        "RetainFile": 0,
        "Language": "",
        "EnableMobile": false,
        "EnableMSEExchange": 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,
    "SuspendPaidUserDate": "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@gmail.com"
      }
    ],
    "UserGroupIdList": [],
    "UserId": "test7",
    "OpenDirectQuota": 0,
    "EnableWinServer2008BareMetal": false,
    "Status": "SUSPENDED",
    "Alias": "",
    "VMwareQuota": 0,
    "RetainFile": 0,
    "Language": "",
    "EnableMobile": false,
    "EnableMSEchange": 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,
    "SuspendPaidUserDate": "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@gmail.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,
    "SuspendPaidUserDate": "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@gmail.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,
    "SuspendPaidUserDate": "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@gmail.com"
        }
    ],
    "UserGroupIDList": [],
    "UserId": "test2",
    "OpenDirectQuota": 4,
    "EnableWinServer2008BareMetal": false,
    "Status": "ENABLE",
    "Alias": "",
    "VMwareQuota": 0,
    "RetainFile": 0,
    "Language": "",
    "EnableMobile": false,
    "EnableMSEchange": 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@gmail.com"
      }
    ],
    "UserGroupIDList": [],
    "UserId": "test3",
    "OpenDirectQuota": 5,
    "EnableWinServer2008BareMetal": false,
    "Status": "ENABLE",
    "Alias": "",
    "VMwareQuota": 0,
    "RetainFile": 0,
    "Language": "",
    "EnableMobile": false,
    "EnableMSEchange": 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@gmail.com"
    },
],
"UserGroupIDList": [],
"UserId": "Testscip123",
"OpenDirectQuota": 21,
"EnableWinServer2008BareMetal": false,
>Status": "SUSPENDED",
"Alias": "",
"VMwareQuota": 0,
"RetainFile": 0,
"Language": "",
"EnableMobile": false,
"EnableMSEExchange": 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,
    "EnableMSEExchange": false
}

```

```

        }
    ],
    "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:		
http://BACKUP_SERVER/obs/api/json/AuthUser.do		
Available since version:		
7.3		
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	
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:		
http://BACKUP SERVER/obs/api/json/RunSingleUserRebuild.do		
Available since version:		
7.3		
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	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:		
http://BACKUP_SERVER/obs/api/json/GetSingleUserRebuildStatus.do		
Available since version:		
7.3		
Parameters:		
Key	Type	Descriptions
SysUser	String	AhsayCBS's system users 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:		
http://BACKUP_SERVER/obs/api/json/GetUserStorageStat.do		
Available since version:		
7.3		
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	
YearMonth	String	In "yyyy-MM" format. For example, to get the storage statistics of January 2015, the parameter is "2015-01"
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 Compressed size of data area (Exclude local destination) of all backup set
AvgDataRawSize	String	Average uncompressed size of data area (Exclude local destination) of all backup set
AvgDataNo	String	
AvgRetainSize	String	Average Compressed size of retention area (Exclude local destination) of all backup set
AvgRetainRawSize	String	Average uncompressed size of retention area (Exclude local destination) of all backup set
AvgRetainNo	String	
AvgUploadSize	String	Average compressed size of upload area (Exclude local destination) of all backup set
AvgUploadRawSize	String	Average uncompressed size of upload area (Exclude local destination) of all backup set
AvgUploadNo	String	
AvgTotalStorageSize	String	Average total compressed storage size of all backup set
AvgTotalStorageRawSize	String	Average total uncompressed storage size of all backup set
AvgTotalStorageNo	String	
Storage	Array of DetailStat	
DetailStat		
Key	Type	Descriptions
Date	String	yyyy-MM-dd
DataService	String	Compressed size of data area (Exclude local destination)
DataRawSize	String	Uncompressed size of data area (Exclude local destination)
DataNo	String	
RetainSize	String	Compressed size of retention area (Exclude local destination)

RetainRawSize	String	Uncompressed size of retention area (Exclude local destination)
RetainNo	String	
UploadSize	String	Compressed size of upload area (Exclude local destination)
UploadRawSize	String	Uncompressed size of upload area (Exclude local destination)
UploadNo	String	
TotalStorageSize	String	Total compressed storage size
TotalStorageRawSize	String	Total uncompressed storage size
TotalStorageNo	String	
DestinationID	String	Desintation storage ID

Example:

Input

```
{"SysUser":"api",
 "SysPwd":"pwd",
 "LoginName":"user",
 "YearMonth":"2017-06"
}
```

Output

```
{
  "Status": "OK",
  "Data": {
    "Storage": [
      {
        "UploadNo": "0",
        "TotalStorageSize": "0",
        "DataRawSize": "0",
        "Date": "2017-06-10",
        "DestinationID": "",
        "TotalStorageNo": "0",
        "UploadRawSize": "0",
        "RetainSize": "0",
        "DataSize": "0",
        "TotalStorageRawSize": "0",
        "RetainNo": "0",
        "RetainRawSize": "0",
        "UploadSize": "0",
        "DataNo": "0"
      },
      {
        "UploadNo": "0",
        "TotalStorageSize": "0",
        "DataRawSize": "0",
        "Date": "2017-06-11",
        "DestinationID": "",
        "TotalStorageNo": "0",
        "UploadRawSize": "0",
        "RetainSize": "0",
        "DataSize": "0",
        "TotalStorageRawSize": "0",
        "RetainNo": "0",
        "RetainRawSize": "0",
        "UploadSize": "0",
        "DataNo": "0"
      },
      {
        "UploadNo": "0",
        "TotalStorageSize": "0",
        "DataRawSize": "0",
        "Date": "2017-06-12",
        "DestinationID": "",
        "TotalStorageNo": "0",
        "UploadRawSize": "0",
        "RetainSize": "0",
        "DataSize": "0",
        "TotalStorageRawSize": "0",
        "RetainNo": "0",
        "RetainRawSize": "0",
        "UploadSize": "0",
        "DataNo": "0"
      },
      {
        "UploadNo": "0",
        "TotalStorageSize": "0",
        "DataRawSize": "0",
        "Date": "2017-06-13",
        "DestinationID": "",
        "TotalStorageNo": "0",
        "UploadRawSize": "0",
        "RetainSize": "0",
        "DataSize": "0",
        "TotalStorageRawSize": "0",
        "RetainNo": "0",
        "RetainRawSize": "0",
        "UploadSize": "0",
        "DataNo": "0"
      }
    ]
  }
}
```

```

        "Date": "2017-06-13",
        "DestinationID": "",
        "TotalStorageNo": "0",
        "UploadRawSize": "0",
        "RetainSize": "0",
        "DataSize": "0",
        "TotalStorageRawSize": "0",
        "RetainNo": "0",
        "RetainRawSize": "0",
        "UploadSize": "0",
        "DataNo": "0"
    }
],
"AvgUploadNo": "0",
"AvgUploadRawSize": "0",
"AvgTotalStorageNo": "0",
"AvgTotalStorageSize": "0",
"AvgDataNo": "0",
"YearMonth": "2017-06",
"AvgTotalStorageRawSize": "0",
"AvgDataRawSize": "0",
"AvgUploadSize": "0",
"AvgRetainNo": "0",
"AvgRetainRawSize": "0",
"AvgRetainSize": "0",
"AvgDataSize": "0"
}
}

```

Input No storage log found

```
{
"SysUser": "api",
"SysPwd": "pwd",
"LoginName": "user",
"YearMonth": "1999-06"
}
```

Output

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

4.1.6 UpdateUserProfile

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]>Choose a user

URL:		
http://BACKUP_SERVER/obs/api/json/UpdateUserProfile.do		
Available since version:		
7.3		
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.
	HostQuotaEnabled	Boolean	Enable / Disable Client host
	HostQuota	Long	Client host limit
	RunDirectQuotaEnabled	Boolean	
	RunDirectQuota	Long	
	ModuleSettings	JSON Object ModuleSettings	
	WindowsEventLogSettings	WindowsEventLogSettings	
	Contact	Array of Contact	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 of Contact	Existing contacts. It is used if "ChangeContact" is "Y"
	NewContact	Array of Contact	If "ChangeContact" is "Y", all contacts in OldContact will be updated with NewContact

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:

ModuleSettings		
Key	Type	Descriptions
MSEExchangeMailboxBackupEnabled	Boolean	
MSEMailboxQuota	Long	
MSSQLBackupEnabled	Boolean	
MSEExchangeBackupEnabled	Boolean	
OracleBackupEnabled	Boolean	
LotusDominoBackupEnabled	Boolean	
LotusNotesBackupEnabled	Boolean	
MySQLBackupEnabled	Boolean	
InFileDeltaEnabled	Boolean	
ShadowCopyEnabled	Boolean	
NasClientEnabled	Boolean	
DeltaMergeEnabled	Boolean	
MSHyperVBackupEnabled	Boolean	
MShyperVVMQuota	Long	
MShyperVVMQuotaType	String	
VMwareBackupEnabled	Boolean	
VMwareVMQuota	Long	
VMwareVMQuotaType	String	
CDPEnabled	Boolean	
ShadowProtectBackupEnabled	Boolean	
MSWindowsSystemBackupEnabled	Boolean	
MSWindowsSystemStateBackupEnabled	Boolean	
EnableOffice365Mail	Boolean	
Office365MailQuota	Long	
EnableMobile	Boolean	
MobileQuota	Long	
EnableOpenDirect	Boolean	Supported from AhsayCBS v7.13.0.0 or above
OpenDirectQuota	String	Supported from AhsayCBS v7.13.0.0 or above
Contact		
Key	Type	Descriptions
Contact	String	
Email	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	

Example:

Input	Update old contacts
	{ "SysUser":"api_user", "SysPwd":"abc123\$%", "LoginName":"test", "ChangeContact":"Y", "OldContact":{["ReadOnly":false, "Phone1": "", "EmailCertificate": "", "Website": "", "Phone2": "", "Name": "Name", "AllowMultiple":true, "Email": "Name@Name.com", "Address": "", "EncryptEmail":false, "Id": "1473221783291", "Company": "", "KeyName": "com.ahsay.obx.cxp.cloud.Contact"}], "NewContact":{["ReadOnly":false, "Phone1": "", "EmailCertificate": "", "Website": "", "Phone2": "", "Name": "NewName", "AllowMultiple":true, "Email": "NewName@NewName.com", "Address": "", "EncryptEmail":false, "Id": "1473221783291", "Company": "", "KeyName": "com.ahsay.obx.cxp.cloud.Contact"}] }
Output	{"Status": "OK"}
Input	Delete all contact
	{ "SysUser": " api_user ", "SysPwd": "abc123\$%", "LoginName": "username", "AppendContact": "N", "Contact":[] }
Output	{"Status": "OK"}
Input	Change module settings
	{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", }

	<pre> "Password":"user_password", "ModuleSettings":{"MSExchangeBackupEnabled":"true" } </pre>
	Output
	{"Status":"OK"}

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]>Choose a user>[User Profile]>[Contact]

URL:	http://BACKUP_SERVER/obs/api/json/AddContact.do	
Available since version:	7.3	
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	
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:		
Input		
{		
"SysUser": "SysUser",		
"SysPwd": "SysPwd",		
"LoginName": "User",		
"NewContact": {"Name": "Name1", "Email": "test1@test.mail"}		
}		
Output		
{		
"Status": "OK"		
}		
Output 2 duplicate contact name		
{		
"Status": "Error",		
"Message": "Contact name is already in use.",		
"ExptType": "com.ahsay.obs.core.dbs.c"		
}		

4.1.8 AddUser

This API allows you to add new backup user.

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

- ▶ *[Backup/Restore]>[User, Groups & Policies]> [Backup user]*

URL:		
http://BACKUP_SERVER/obs/api/json/AddUser.do		
Available since version:		
7.3		
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	
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: <i>[Backup/Restore]>[Basic]> [User Home]</i>
MobileQuota	Long	AhsayMOB quota
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	Available for AhsayCBS version 7.7 or above 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	Available for AhsayCBS version 7.7 or above 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		
EnableExchangeMailbox	Boolean		
EnableMSSQL	Boolean		
EnableMSExchange	Boolean		
EnableOracle	Boolean		
EnableLotusDomino	Boolean		
EnableLotusNotes	Boolean		
EnableMySQL	Boolean		
EnableInFileDelta	Boolean		
EnableShadowCopy	Boolean		
EnableNASClient	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	Supported from AhsayCBS v7.13.0.0 or above	
OpenDirectQuota	String	Supported from AhsayCBS v7.13.0.0 or above	

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

	<pre> "Type":"Trial", "DisplayName":"Peter", "ClientType":"ACB", "Status":"SUSPENDED", "EnableOracle":"True", "EnableOffice365Mail":"True", "Office365MailQuota":5 } </pre>
	Output
	{"Status":"OK"}
	Output User name already in use
	<pre> { "Status": "Error", "Message": "Login Name 'user' is used", "ExptType": "com.ahsay.obs.core.dbs.c" } </pre>

4.1.9 GetUser

This API retrieves the 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

URL:	http://BACKUP SERVER/obs/api/json/GetUser.do	
Available since version:	7.3	
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	
Return Values:		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	JSON Object User	
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
LoginName	String	Client user name
Owner	String	
Password	String	Hashed password
Status	String	Suspended or enabled
Type	String	TRIAL or PAID. Default to TRIAL if not specified
ClientType	String	ACB or OBM
HomeDir	String	User home
WindowsEventLogSettings	WindowsEventLogSettings	
SuspendPaidUserDate	String	
HostQuota	Long	Client host limit
Language	String	
Timezone	String	String of timezone, refer to Appendix for string
Notes	String	
Quota	Long	
Bandwidth	Long	

	RegistrationDate	Long	Timestamp of registration date
	ModuleSettings	JSON Object ModuleSettings	
ModuleSettings			
Key	Type	Descriptions	
MsexchangeMailboxBackupEnabled	Boolean		
MsexchangeDAGServerQuota	Long		
MssqlBackupEnabled	Boolean		
MsexchangeBackupEnabled	Boolean		
OracleBackupEnabled	Boolean		
LotusDominoBackupEnabled	Boolean		
LotusNotesBackupEnabled	Boolean		
MySQLBackupEnabled	Boolean		
InFileDeltaEnabled	Boolean		
ShadowCopyEnabled	Boolean		
NasClientEnabled	Boolean		
DeltaMergeEnabled	Boolean		
MshyperVBackupEnabled	Boolean		
OpenDirectEnabled	Boolean		
MshyperVVMMQuota	Long		
MshyperVMQuotaType	String		
VmwareBackupEnabled	Boolean		
VmwareVMQuota	Long		
VmwareVMQuotaType	String		
RunDirectQuota	Long		
Cdpenabled	Boolean		
ShadowProtectBackupEnabled	Boolean		
MswindowsSystemBackupEnabled	Boolean		
MswindowsSystemStateBackupEnabled	Boolean		
EnableOffice365Mail	Boolean		
Office365MailQuota	Long		
MobileQuota	Long		
OpenDirectQuota	String		
WindowsEventLogSettings			
Key	Type	Descriptions	
Enabled	Boolean		
LogError	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		
Example:			
Input			
{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user" }			
Output			
{ >Status": "OK", >Data": { "ReadOnly": false, }			

```

    "Updated": false,
    "ProxySettings": {
        "ReadOnly": false,
        "Enabled": false,
        "AllowMultiple": false,
        "Port": "",
        "Host": "",
        "Type": "",
        "Password": "",
        "Username": "",
        "Id": "",
        "KeyName": "com.ahsay.obx.cxp.cloud.ProxySettings"
    },
    "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,
        "AllowMultiple": false,
        "FirstAuthFailureTime": -1,
        "Id": "",
        "LdapUser": false,
        "LastDeleteTime": -1,
        "KeyName": "com.ahsay.obx.cxp.obs.LdapSettings"
    },
    "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,
        "AllowMultiple": false,
        "Id": "",
        "Token": "",
        "RequestTime": -1,
        "KeyName": "com.ahsay.obx.cxp.obs.ForgotPasswordSettings",
        "ResetTime": -1
    },
    "AccessToken": "D4A0E4D832B74E9694C9B83012AB1243C842E0F4E6CC4947A7B7A7326FF509F6",
    "SuspendPaidUserDate": "20170716",
    "HostQuota": 1,
    "GroupPolicySettings": {
        "ReadOnly": false,
        "GroupQuota": 0,
        "AllowMultiple": false,
        "UsedGroupQuota": 0,
        "FileSizeLimit": 0,
        "Id": "",
        "UserGroupIDList": [
            "1"
        ],
        "ExcludeNetworkShare": false,
        "KeyName": "com.ahsay.obx.cxp.obs.GroupPolicySettings"
    },
    "Notes": "",
    "HostCount": 1,
    "RegistrationDate": 1497578979897,
    "ClientRunVersion": "7.12.4.0",
    "UserLockSettings": {
        "ReadOnly": false,
        "AllowMultiple": false,
        "LoginFailureCount": 0,
        "LastFailureTime": -1,
        "Id": ""
    }
}

```

```

    "LockedTime": -1,
    "KeyName": "com.ahsay.obx.cxp.obs.UserLockSettings"
},
"EmailReportSettings": {
    "ReadOnly": false,
    "Enabled": false,
    "SendMissedBkpRpt": false,
    "SmtpAuthPwd": "",
    "SmtpAuthUser": "",
    "ReportSenderEmail": "",
    "SmtpPort": "",
    "SendStorageAlert": false,
    "Usage": 0,
    "SendBkpRpt": false,
    "AllowMultiple": false,
    "Email": "",
    "SendBkpRptMode": "",
    "Id": "",
    "SmtpHostName": "",
    "MissedBkpInterval": 0,
    "KeyName": "com.ahsay.obx.cxp.cloud.EmailReportSettings"
},
"DestinationQuotaList": [
{
    "ReadOnly": false,
    "Enabled": false,
    "Attributes": [],
    "ValueSize": 3,
    "AttributeSize": 0,
    "NestedValues": [],
    "SubKeySize": 0,
    "DestinationKey": "OBS",
    "Priority": -1,
    "Quota": 0,
    "AllowMultiple": true,
    "SubKeys": [],
    "InheritParentAttribs": false,
    "Content": "",
    "KeyName": "com.ahsay.obx.cxp.obs.DestinationQuotaBean"
}
],
"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,
    "AllowMultiple": false,
    "HistoryList": [
{
    "ReadOnly": false,
    "Attributes": [],
    "ValueSize": 2,
    "AttributeSize": 0,
    "NestedValues": [],
    "SubKeySize": 0,
    "Password": "ANBTv6/OToWAu38et4QF7roFCESDUckB9qXb+iyiayk=",
    "Priority": -1,
    "Content": ""
}
]
}
}

```

```

        "AllowMultiple": true,
        "SubKeys": [],
        "LastDisabledTime": -1,
        "InheritParentAttribs": false,
        "Content": "",
        "KeyName": "com.ahsay.obx.cxp.cloud.HistoryBean"
    }
],
"PasswordLastModifiedTime": 1497578979897,
"Id": "",
"KeyName": "com.ahsay.obx.cxp.cloud.PasswordHistory"
},
"FullName": null,
"SoftwareUpdateSettings": {
    "ReadOnly": false,
    "Enabled": true,
    "AllowMultiple": false,
    "Id": "",
    "KeyName": "com.ahsay.obx.cxp.cloud.SoftwareUpdateSettings"
},
"Hostname": "",
"Office365MailEnabled": false,
"HomeDir": "/usr/local/cbs_7_12.4/user/opendirect",
"RoutineJobSettings": {
    "ReadOnly": false,
    "AllowMultiple": false,
    "QuotaRemindPercentage": 0,
    "InactiveReportLastSentTime": -1,
    "Id": "",
    "KeyName": "com.ahsay.obx.cxp.obs.RoutineJobSettings"
},
"Owner": "",
"ModuleSettings": {
    "ReadOnly": false,
    "VMwareBackupEnabled": false,
    "ShadowCopyEnabled": false,
    "MSHyperVVMQuota": 0,
    "LotusDominoBackupEnabled": false,
    "VMwareVMQuota": 0,
    "MSExchangeDAGServerQuota": 0,
    "Office365SharePointEnabled": false,
    "MSEmailboxQuota": 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,
    "AllowMultiple": false,
    "LotusNotesBackupEnabled": false,
    "MySQLBackupEnabled": false,
    "ShadowProtectBackupEnabled": false,
    "MSHyperVVMQuotaType": "GUESTVM",
    "Office365SharePointQuota": 0,
    "MSExchangeBackupEnabled": false,
    "Id": "",
    "CDPEnabled": false,
    "MobileEnabled": false,
    "MSWindowsSystemBackupEnabled": false,
    "NasClientEnabled": false,
    "KeyName": "com.ahsay.obx.cxp.cloud.ModuleSettings",
    "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,
    "AllowMultiple": true,
    "UserSuspendSettings": {
        "ReadOnly": false,
        "Enabled": true,
        "AllowMultiple": false,
        "Date": 1500170979897,
        "Id": "",
        "KeyName": "com.ahsay.obx.cxp.obs.UserSuspendSettings"
    },
    "Alias": "",
    "RunDirectQuotaEnabled": false,
    "AdGroups": [],
    "Language": "en",
    "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,
        "AllowMultiple": false,
        "LogLicense": false,
        "LogWarn": false,
        "Id": "",
        "LogRestore": false,
        "KeyName": "com.ahsay.obx.cxp.cloud.WindowsEventLogSettings"
    },
    "LastModified": 1497578442000,
    "KeyName": "com.ahsay.obx.cxp.cloud.User"
}
}

```

4.1.10 ¹ModifyUserStatus

This API modifies the user account status, either enable or suspended. Does not apply to 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:						
http://BACKUP_SERVER/obs/api/json/ModifyUserStatus.do						
Available since version:						
7.3						
Parameters:						
<table border="1"> <thead> <tr> <th>Key</th><th>Type</th><th>Descriptions</th></tr> </thead> <tbody> <tr> <td>SysUser</td><td>String</td><td>AhsayCBS's system users with admin role</td></tr> </tbody> </table>	Key	Type	Descriptions	SysUser	String	AhsayCBS's system users with admin role
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	
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 <pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user1", "Status": "SUSPENDED" }</pre>		
Output <pre>{"Status": "OK"}</pre>		
Output 2 User not exist <pre>{ "Status": "Error", "Message": "[UserCacheManager.NoSuchUserExpt] User 'user1' not found.", "ExptType": "com.ahsay.obs.core.dbs.Y" }</pre>		

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:		
http://BACKUP_SERVER/obs/api/json/RemoveUser.do		
Available since version:		
7.3		
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	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 <pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user1*user2", "Owner": "* * *" }</pre>		

	}
	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:	http://BACKUP_SERVER/obs/api/json/SendForgotPwdEmail.do			
Available since version:				
7.3				
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	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 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 gets detailed information of the current backup or restore job running.

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

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

URL:	http://BACKUP_SERVER/cbs/api/json/GetUserStatus.do	
Available since version:		
7.9.0.13		

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	Backup set type. 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
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	Destination storage of the backup set. The value can be one of the following: Local / Mapped Drive / Removable Drive : Local

			<p>Alibaba Cloud : Aliyun CTYun : CTYun Amazon Cloud Drive : CloudDrive Amazon S3 : S3 AWS S3 Compatible Cloud Storage : AWSCompatible 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	<p>Total number of directories uploaded for BkpStatus (e.g. input "Type":"backup")</p> <p>or</p> <p>Total number of directories downloaded for RestoreStatus (e.g. input "Type":"restore").</p>
	UploadedNumOfLinks	String	<p>Total number of links uploaded for BkpStatus (e.g. input "Type":"backup")</p> <p>or</p> <p>Total number of links downloaded for RestoreStatus (e.g. input "Type":"restore").</p>
	ElapsedTime	String	Elapsed time of the backup job.
	CurrentFilePercent	String	Upload percentage of the current file being backed up / restored.
	CurrentFileType	String	<p>Current type.</p> <p>The value can be one of the following:</p> <p>Full Incremental Differential</p>
	CurrentFileOperation	String	<p>File operation list.</p> <p>The value can be one of the following:</p> <p>new update delete move file permission</p>

DeltaFile	String	Delta file path.	
DeltaFilePercent	String	Upload percentage of the current delta file.	
DeltaType	String	<p>Deltas type.</p> <p>The value can be one of the following:</p> <p>Incremental Differential</p>	

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

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

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

Input	
{ "SysUser":"system", "SysPwd":"system", "Type":"restore" }	
Output	

```
{  
    "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",  
            "BackupStatus": "info",  
            "ClientType": "OBM",  
            "CurrentFileType": "" }]  
    }  
}
```

4.2 Backup Set

4.2.1 UpdateBackupSet

This API updates 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

URL:		
http://BACKUP SERVER/obs/api/json/UpdateBackupSet.do		
Available since version:		
7.3		
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	User name
BackupSetID	String	Obtainable in ListBackupsets API
ReadOnly	Boolean	
class	String	com.ahsay.obx.cxp.obs.BackupSet
Name	String	Backup set name
Type	String	The value can be any 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
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), 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 Directory for storing backup files
UploadPermission	Boolean	Enable to backup permission attribute of files
ReminderSettings	ReminderSettings	
InFileDeltaSettings	InFileDeltaSettings	
LocalCopySettings	LocalCopySettings	
RetentionPolicySettings	RetentionPolicySettings	
CdpSettingsV6	CdpSettings	

CdpSettings7	CdpSettings	
BandwidthControlSettings	BandwidthControlSettings	
FilterSettings	FilterSettings	
ScheduleSettings	ScheduleSettings	
DestinationSettings	DestinationSettings	
SelectedSourceList	Array of String	
DeselectedSourceList	Array of String	
PreCommandList	Array of Command	
PostCommandList	Array of Command	
AllowedIPList	Array of AllowedIP	
ApplicationSettings		
DestinationList	Array of Destination	(optional)
EnableOpenDirect	Boolean	Supported from AhsayCBS v7.13.0.0 or above Note: Cannot be changed once 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:

ReminderSettings		
Key	Type	Descriptions
ReadOnly	Boolean	
BackupIntervalHour	Integer	This setting only applicable for v6 legacy backup users.
OfflineNotificationDay	Integer	This setting only applicable for v6 legacy backup users.
OfflineBackupEnabled	Boolean	This setting only applicable for v6 legacy backup users.
BackupIntervalDay	Integer	This setting only applicable for v6 legacy backup users.
ShowOfflineBackupReminder	Boolean	This setting only applicable for v6 legacy backup users.
LogoutBackupReminderEnabled	Boolean	Enable/Disable backup reminder when windows log off or shutdown.

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	WeeklyInFileDeltaSchedule	Weekly variations for overriding default type
MonthlyInFileDeltaSchedule	MonthlyInFileDeltaSchedule	Yearly variations for overriding default type and weekly variations

WeeklyInFileDeltaSchedule		
Key	Type	Descriptions
ReadOnly	Boolean	

	Day	Array of String	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 of String	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	LocalCopyRetentionPolicySetting	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 of AdvancedRetentionPolicy	
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: MONTHLY QUARTERLY YEARLY CUSTOM	
Week	Integer	Available to change when you choose the following Type: QUARTERLY YEARLY CUSTOM	
Month	Integer	Available to change when you choose the following Type: QUARTERLY YEARLY CUSTOM	
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 CdpSettings7, 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 CdpSettingsV6, the value is v6 For CdpSettings7, the value is 7
	CdpBackupControlSettings	CdpBackupControlSetting	This setting only applicable for v6 legacy backup users.
	SelectedSourceList	Array of String	
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 of BandwidthControl		
Mode	String	The value can be one of the following: independent share	
BandwidthControl			
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 of Filter		

Filter		
Key	Type	Descriptions
ReadOnly	Boolean	
Name	String	Name of the filter
Id	Long	Id of the filter, obtainable in GetBackupSet API
TopDir	String	Apply filerter 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 of Pattern	
MatchPatternAgainstFullPath Only	Boolean	

Pattern		
Key	Type	Descriptions
ReadOnly	Boolean	
Pattern	String	

ApplicationSettings		
Key	Type	Descriptions
ReadOnly	Boolean	
AllowMultiple	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.MSEExchangeSettings com.ahsay.obx.cxp.cloud.MSEMailboxSettings 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
Id		
Version		
KeyName		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.MSEExchangeSettings com.ahsay.obx.cxp.cloud.MSEMailboxSettings 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

	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 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 Database Server / VMware backup set only
	Host	String	Hostname or IP to the MySQL / Oracle Database Server, or VMware hypervisor Applicable for MySQL / Oracle Database Server / VMware backup set only
	Username	String	Username of root account Applicable for MySQL / VMware backup set only
	MysqldumpPath	String	Applicable for MySQL 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
	ScheduleSettings		
	Key	Type	Descriptions
	ReadOnly	Boolean	
	Enable	Boolean	
	ComputerName	String	
	DailyScheduleList	Array of DailySchedule	
	WeeklyScheduleList	Array of WeeklySchedule	

	MonthlyScheduleList	Array of MonthlySchedule	
	CustomScheduleList	Array of CustomSchedule	
DailySchedule			
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 POEROFF 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 POEROFF	
SpaceFreeUpEnabled	Boolean	Remove obsolete files 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	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 of Boolean	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	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	
CustomSchedule			
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	
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 of Destination		
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.AmazonCloudDriveDestination 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	
Type	String	*OBS & Local destination types support both update & add new destination (Available for AhsayCBS on 7.9.2.8 or above) . ** All other destinations types <u>do not support</u> update or add new destination. The value can be one of the following: Local CloudDrive S3 AWSCompatible 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 of Destination	
KeyName	String	com.ahsay.obx.cxp.obs.FtpDestination com.ahsay.obx.cxp.obs.SftpDestination FTP and SFTP cloud file backup set are supported using this API from AhsayCBS v7.9.0.94 or above.

Example:

Input Update local and obs destination

```
{
    "SysUser": "api_user",
    "SysPwd": "abc123$%",
    "LoginName": "user",
    "BackupSetID": "1447039383821",
    "DestinationSettings": {
        "DestinationList": [
            {
                "Name": "dest_OBS",
                "Type": "OBS",
            },
            {
                "Name": "dest_Local",
                "Type": "Local",
                "TopDir": "D:\\\\test"
            }
        ]
    }
}
```

Input Update 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/AkSjvTIOOVjcF/W9dcqxQKiFnVql/A9Le/N0ujmNADgWipLghpjS0ZzIcm",
            "DataMigrationMappingMergedToIndex": false,
            "MultiAccounts": true,
            "UserName": "carven.tsang@cloudbacko.biz",
            "DestinationKey": "Exchange#carven.tsang@cloudbacko.biz",
            "Id": "1472441724123",
            "KeyName": "com.ahsay.obx.cxp.obs.Office365ExchangeOnlineDestination"
        },
        "KeyName": "com.ahsay.obx.cxp.cloud.Office365ExchangeOnlineSettings"
    }
}
```

Input CBS destination

```
{
    "SysUser": "api_user",
    "SysPwd": "abc123$%",
    "LoginName": "user",
    "BackupSetID": "1447039383821",
    "DestinationSettings": {
```

	<pre> "DestinationList": [{ "Name": "CBS", "@class": "com.ahsay.obx.cxp.obs.ObsDestination", "Type": "OBS" }] } } </pre>
	Input Weekly In file delta settings
	<pre> { "SysUser": "system", "SysPwd": "system", "LoginName": "test", "BackupSetID": "1498728005287", "InFileDeltaSettings": { "Enabled": true, "MinDeltaFileSize": "30", "MaxNumOfDelta": "200", "MaxDeltaRatio": "55", "DefaultDeltaType": "I", "WeeklyInFileDeltaSchedule": { "Day": ["D", "D", "D", "", "D", "I"] } } } </pre>
	Input Monthly In file delta settings
	<pre> { "SysUser": "system", "SysPwd": "system", "LoginName": "test", "BackupSetID": "1498728005287", "InFileDeltaSettings": { "Enabled": true, "MinDeltaFileSize": "30", "MaxNumOfDelta": "200", "MaxDeltaRatio": "55", "DefaultDeltaType": "I", "MonthlyInFileDeltaSchedule": { "Month": ["D", "D", "D", "D", "", "D", "I", "D", "D", "D", "", "D", "I"], "Date": "3" } } } </pre>
	Input Simple retention policy
	<pre> { "SysUser": "system", "SysPwd": "system", "LoginName": "test", "BackupSetID": "1498728005287", "RetentionPolicySettings": { "Period": "3", "Type": "SIMPLE", "Unit": "JOBS" } } </pre>
	Input Advanced weekly retention policy
	<pre> { "SysUser": "system", "SysPwd": "system", "LoginName": "test", "BackupSetID": "1498728005287", "RetentionPolicySettings": { "Period": "3", "Type": "ADVANCED", "Unit": "JOBS", "AdvancedRetentionPolicyList": [</pre>

	<pre> "Id":"1498792367943", "Type":"WEEKLY", "NumbersToKeep":"3", "Mon":true }] } }</pre>
	Input Advanced daily retention policy
	<pre>{ "SysUser":"system", "SysPwd":"system", "LoginName":"test", "BackupSetID":"1498728005287", "RetentionPolicySettings":{ "Type":"ADVANCED", "AdvancedRetentionPolicyList":[{ "Id":"1498792738486", "Type":"DAILY", "NumbersToKeep":"3", }] } }</pre>
	Input Advanced weekly retention policy
	<pre>{ "SysUser":"system", "SysPwd":"system", "LoginName":"test", "BackupSetID":"1498728005287", "RetentionPolicySettings:{ "Period":3, "Type":"ADVANCED", "Unit":JOBS, "AdvancedRetentionPolicyList":[{ "Id":"1498792367943", "Type":"WEEKLY", "NumbersToKeep":"3", "Mon":true }] } }</pre>
	Input Advanced monthly retention policy
	<pre>{ "SysUser":"system", "SysPwd":"system", "LoginName":"test", "BackupSetID":"1498728005287", "RetentionPolicySettings:{ "Type":"ADVANCED", "AdvancedRetentionPolicyList":[{ "Id":"1498792747423", "Type":MONTHLY, "Day":12, "NumbersToKeep":"3", }] } }</pre>
	Input Advanced custom retention policy
	<pre>{ "SysUser":"system", "SysPwd":"system", "LoginName":"test", "BackupSetID":"1498728005287", "RetentionPolicySettings:{ "Type":"ADVANCED", "AdvancedRetentionPolicyList":[]</pre>

	<pre> "Id":"1498792796814", "Type":"CUSTOM", "Month":5, "Day":1, "Year":2016, } } } } </pre>
	Input Bandwidth Control Settings
	<pre> { "SysUser":"system", "SysPwd":"system", "LoginName":"test", "BackupSetID":"1498728005287", "BandwidthControlSettings":{ "Enabled":true, "Mode":"Share", "BandwidthControlList":[{ "Name":"ban1", "Id":"1498795406838", "MaxTransferRateInBitsPerSec":"25600000", }] } } </pre>
	Input FilterSettings
	<pre> { "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"}] }] } } </pre>
	Input Daily schedule and custom schdelue 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>

	<pre> } } } </pre>
	Output
	{"Status":"OK"}
	Input Try to update opendirect setting
	<pre> { "SysUser": "system", "SysPwd": "system", "LoginName": "test", "BackupSetID": "1498728005287", "EnableOpenDirect": false } </pre>
	Output OK but nothing changed
	{"Status":"OK"}

Note: Once opendirect setting is configured when creating backupset, it cannot be changed . If you want to change this setting, the only way is to create a whole new backup set.

4.2.2 AddSelectSrc

This API allows you to add additional source to 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:	http://BACKUP SERVER/obs/api/json/AddSelectSrc.do																			
Available since version:	7.3																			
Parameters:																				
<table border="1"> <thead> <tr> <th>Key</th><th>Type</th><th>Descriptions</th></tr> </thead> <tbody> <tr> <td>SysUser</td><td>String</td><td>AhsayCBS's system users with admin role</td></tr> <tr> <td>SysPwd</td><td>String</td><td>AhsayCBS's system users password with admin role</td></tr> <tr> <td>LoginName</td><td>String</td><td>User name</td></tr> <tr> <td>BackupSetID</td><td>String</td><td>Obtainable in ListBackupsets API</td></tr> <tr> <td>NewSelectedSrc</td><td>Array of SourceBean</td><td>Special characters for JAVA must be escaped, for example, “\” must be replaced with “\\”</td></tr> </tbody> </table>			Key	Type	Descriptions	SysUser	String	AhsayCBS's system users with admin role	SysPwd	String	AhsayCBS's system users password with admin role	LoginName	String	User name	BackupSetID	String	Obtainable in ListBackupsets API	NewSelectedSrc	Array of SourceBean	Special characters for JAVA must be escaped, for example, “\” must be replaced with “\\”
Key	Type	Descriptions																		
SysUser	String	AhsayCBS's system users with admin role																		
SysPwd	String	AhsayCBS's system users password with admin role																		
LoginName	String	User name																		
BackupSetID	String	Obtainable in ListBackupsets API																		
NewSelectedSrc	Array of SourceBean	Special characters for JAVA must be escaped, for example, “\” must be replaced with “\\”																		
Return Values:																				
<table border="1"> <thead> <tr> <th>Key</th><th>Type</th><th>Descriptions</th></tr> </thead> <tbody> <tr> <td>Status</td><td>String</td><td>“OK” or “Error”</td></tr> <tr> <td>Message</td><td>String</td><td>Error message, it exists only if status is “Error”</td></tr> <tr> <td>ExptType</td><td>String</td><td>The type of exception, it exists only if status is “Error”</td></tr> </tbody> </table>			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”						
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																				
<table border="1"> <thead> <tr> <th>Key</th><th>Type</th><th>Descriptions</th></tr> </thead> <tbody> <tr> <td>Src</td><td>String</td><td></td></tr> </tbody> </table>			Key	Type	Descriptions	Src	String													
Key	Type	Descriptions																		
Src	String																			
Example:																				
Input																				
{	<pre> "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1447039383821", </pre>																			

	<pre> "NewSelectedSrc": {"Src": "C:\\\\New1" } } </pre>
	Output
	{"Status":"OK"}
Input	Do not escape special characters
	<pre> { "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1447039383821", "NewSelectedSrc": {"Src": "C:\\\\New1" } } </pre>
	Output
	<pre> { "Status": "Error", "Message": "java.lang.NullPointerException", "ExptType": "java.lang.NullPointerException" } </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:	http://BACKUP SERVER/obs/api/json/RemoveSelectSrc.do	
Available since version:	7.3	
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
BackupSetID	String	Obtainable in ListBackupsets API
Src	Array of String	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	
	<pre> { "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462427376949", "Src": "C:\\\\New1" } </pre>	
	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:		
http://BACKUP SERVER/obs/api/json/AddDeselectSrc.do		
Available since version:		
7.3		
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
BackupSetID	String	Obtainable in ListBackupsets API
NewDeselectedSrc	Array of SourceBean	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”
JSON Objects:		
SourceBean		
Key	Type	Descriptions
Src	String	
Example:		
Input		
{ "SysUser":"api_user", "SysPwd":"abc123\$%", "LoginName":"user", "BackupSetID":"1447039383821", "NewDeselectedSrc":{ "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:		
http://BACKUP_SERVER/obs/api/json/RemoveDeselectSrc.do		
Available since version:		
7.3		
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
BackupSetID	String	Obtainable in ListBackupset API
Src	Array of String	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		
{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462427376949", "Src": "C:\\New2" }		
Output		
{"Status": "OK"}		

4.2.6 AddSchedule

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]

URL:		
http://BACKUP_SERVER/obs/api/json/AddSchedule.do		
Available since version:		
7.3		
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
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	
	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			
{ "SysUser":"api_user", "SysPwd":"abc123\$%", "LoginName":"user", "BackupSetID": "1462500845713", "Name":"DAILYTEST", "Type":"DAILY", "FullBackup":true, "Time" : { "Hour":21, "Minute":30 }, "SpaceFreeUpEnabled":true, "SkipBackupEnabled":true }			
Output			
{ "Status":"OK" }			
Input Weekly schedule			
{ "SysUser":"api_user", "SysPwd":"abc123\$%", "LoginName":"user", "BackupSetID": "1462500845713", "Name":"WEEKLYTEST", "Type":"WEEKLY", "FullBackup":true, "Time" : { "Hour":21, "Minute":30 }, "SpaceFreeUpEnabled":true, "SkipBackupEnabled":true }			

	<pre> "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
	{"Status":"OK"}
	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
	{"Status":"OK"}
	Input Custom schedule
	<pre>{ "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 } } </pre>
	Output
	{"Status":"OK"}

4.2.7 UpdateSchedule

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]

URL:		
http://BACKUP_SERVER/obs/api/json/UpdateSchedule.do		
Available since version:		
7.3		
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
BackupSetID	String	Obtainable in ListBackupsets API
ID	String	Schedule ID Obtainable in 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 POEROFF 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 POEROFF
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"}		
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		
{"Status": "OK"}		
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": { </pre>		

	<pre> "Occurrence":"First", "Criteria":"Friday" }, "MonthlyDateType":"CRITERIA" } </pre>
	Output
	{"Status":"OK"}
	Input Custom schedule
	<pre> { "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 } } </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:		
http://BACKUP_SERVER/obs/api/json/RemoveSchedule.do		
Available since version:		
7.3		
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
BackupSetID	String	Obtainable in ListBackupsets API
ID	String	Schedule 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": "1462500845713", "ID": "1462954693866" }		
Output		
{"Status": "OK"}		

4.2.9 AddFilter

This API allows you to add filter to the backup source of a backupset. 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:	http://BACKUP_SERVER/obs/api/json/AddFilter.do																																								
Available since version:	7.3																																								
Parameters:																																									
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	Pattern	String																																							
Example:																																									
Input																																									
{ "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" }] }																																									

	}
	Output
	{"Status":"OK"}

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> [Backup Schedule]

URL:	http://BACKUP_SERVER/obs/api/json/UpdateFilter.do	
Available since version:	7.3	
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
BackupSetID	String	Obtainable in ListBackupsets API
ID	String	Filter ID, Obtainable in 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	
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"}		

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

4.2.11 RemoveFilter

This API removes 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> [Backup Schedule]

URL:	http://BACKUP_SERVER/obs/api/json/RemoveFilter.do	
Available since version:		
	7.3	
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
BackupSetID	String	Obtainable in ListBackupsets API
ID	String	Filter 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": "1462427376949", "ID": "1462435805951" }	
Output	{"Status": "OK"}	

4.2.12 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:		
http://BACKUP_SERVER/obs/api/json/AddBackupSet.do		
Available since version:		
7.3		
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
BackupSetName	String	Name of the new backup set
BackupsetType	String	<p>Backup type of the new backup set</p> <p>The value can be set to 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> <p>Default value is FILE if BackupsetType is not specified</p>
BackupMode	String	<p>Mandatory for BackupsetType = "Microsoft SQL Server"</p> <p>Backup mode of MSSQL backup set 0: VSS 1: ODBC (for v7.11.0.0 or above)</p>
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</p>

			<p>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 R2 (for 7.11.0.0 or above) Microsoft Hyper-V Server 2016 R2 (Failover Cluster) (for 7.11.0.0 or above)</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) DAG (MS Exchange Server 2010 (DAG)) (for 7.7.0.0 or above) DAG13 (MS Exchange Server 2013 (DAG)) DAG16 (MS Exchange Server 2016 (DAG)) (for 7.7.0.0 or above)</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) (for v7.15.0.0 or above) DAG (MS Exchange Server 2010 (DAG)) DAG13 (MS Exchange Server 2013 (DAG)) DAG16 (MS Exchange Server 2016 (DAG)) (for v7.15.0.0 or above)</p>
	EncryptionType	String	<p>Available for AhsayCBS on 7.7.2.24 or above</p> <p>Encryption type of a new backup set</p> <p>The value can be set to one of the following:</p> <p>1. "DEFAULT" 2. "PASSWORD" (for AhsayCBS & AhsayOBM/AhsayACB on 7.11.0.0 or above) 3. "CUSTOM" 4. "" = No Encryption</p> <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>Available for AhsayCBS & AhsayOBM/AhsayACB on 7.11.0.0 or above</p> <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>Available for AhsayCBS on 7.7.2.24 or above</p> <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>

			Default to AES if not provided
	Method	String	Available for AhsayCBS on 7.7.2.24 or above Encryption method of the new backup set The value can be set to one of the following ECB CBC Default to CBC if not provided
	Length	String	Available for AhsayCBS on 7.7.2.24 or above Encryption key length (128-bit / 256-bit) The value can be set to one of the following: 128 256 Default to 256 if not provided
	Key	String	Available for AhsayCBS on 7.7.2.24 or above Encryption key of the backup set The value cannot be empty
	RunOnServer	Boolean	Run on Server setting for Cloud File and Office 365 mail backup set If this setting is set to "True" , "EncryptionType" cannot be set to empty.
	DestinationList	Array of Destination	Available for AhsayCBS on 7.9.2.8 or above (Optional)
	EnableOpenDirect	Boolean	Enable the feature of open direct. Note: Once it is enabled or disabled , it cannot be changed later on.

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
{ "SysUser":"api_user", "SysPwd":"abc123\$%", "LoginName":"user", "BackupSetName":"Test_Name", "BackupSetType":"FILE", "EncryptionType":"CUSTOM", "Algorithm":"AES", "Method":"ECB", "Length":"256", "Key":"123456", "DestinationList": [{ "Type": "OBS", "Name": "CBS" }] }

	<pre>{ "Name":"dest_CBS", "Type":"OBS", }, { "Name":"dest_Local", "Type":"Local", "TopDir":"D:\\test" }]</pre>
	Output
	<pre>{ "Status": "OK","BackupSetID": "1487661755456" }</pre>

4.2.13 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:	http://BACKUP_SERVER/obs/api/json/AddAllowedIP.do	
Available since version:	7.3	
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
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		

	<pre>{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462427376949", "NewAllowedIP": { "StartIP": "1.1.1.1", "EndIP": "255.255.255.255" } }</pre>
	Output
	{"Status":"OK"}

4.2.14 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:	http://BACKUP_SERVER/obs/api/json/RemoveAllowedIP.do	
Available since version:		
7.3		
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
BackupSetID	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		
{		
"SysUser": "api_user",		
"SysPwd": "abc123\$%",		
"LoginName": "user",		
"BackupSetID": "1462427376949",		
"AllowedIP": "1462437395739"		
}		
Output		
{		
"Status": "OK"		

4.2.15 DeleteBackupData

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

URL:		
http://BACKUP_SERVER/obs/api/json/DeleteBackupData.do		
Available since version:		
7.5		
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
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"

4.2.16 DeleteBackupFile

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

URL:		
http://BACKUP_SERVER/obs/api/json/DeleteBackupFile.do		
Available since version:		
7.5		
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
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"

4.2.17 DeleteBackupSet

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

URL:

http://BACKUP SERVER/obs/api/json/DeleteBackupSet.do

Available since version:

7.3

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

4.2.18 GetBackupJobProgress

This API allows you to get the information of a backup job.

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

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

URL:																																														
http://BACKUP_SERVER/obs/api/json/GetBackupJobProgress.do																																														
Available since version:																																														
7.3																																														
Parameters:																																														
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Key	Type	Descriptions																																												
SysUser	String	AhsayCBS's system users with admin role																																												
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Status	String	"OK" or "Error"																																												
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<table border="1"> <thead> <tr> <th>Record</th> </tr> <tr> <th>Key</th> <th>Type</th> <th>Descriptions</th> </tr> </thead> <tbody> <tr> <td>ID</td> <td>String</td> <td></td> </tr> <tr> <td>LoginName</td> <td>String</td> <td>Client user name</td> </tr> <tr> <td>Owner</td> <td>String</td> <td></td> </tr> <tr> <td>UserId</td> <td>String</td> <td></td> </tr> <tr> <td>StartTime</td> <td>String</td> <td>In yyyy-MM-dd HH:mm:ss format</td> </tr> <tr> <td>EndTime</td> <td>String</td> <td>In yyyy-MM-dd HH:mm:ss format</td> </tr> <tr> <td>BackupSetID</td> <td>String</td> <td></td> </tr> <tr> <td>BackupSetName</td> <td>String</td> <td></td> </tr> <tr> <td>CurrentFilename</td> <td>String</td> <td></td> </tr> <tr> <td>FileUploadTime</td> <td>String</td> <td>In yyyy-MM-dd HH:mm:ss format</td> </tr> <tr> <td>CurrentFileCount</td> <td>String</td> <td></td> </tr> <tr> <td>TotalFileCount</td> <td>String</td> <td></td> </tr> <tr> <td>UploadedFileSize</td> <td>String</td> <td></td> </tr> <tr> <td>TotalFileSize</td> <td>String</td> <td></td> </tr> </tbody> </table>	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	
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EndTime	String	In yyyy-MM-dd HH:mm:ss format																																												
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{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462427376949", "DestinationID": "1462437395739", "BackupJobID": "2017-06-16-13-59-40" }																																														
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{ "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": ""
}
}

```

4.2.19 GetBackupSet

This API allows you to get the settings of a backup set.

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

URL:	http://BACKUP_SERVER/obs/api/json/GetBackupSet.do	
Available since version:	7.3	
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
BackupSetID	String	Obtainable in ListBackupsets API
Return Values:		
Key Type Descriptions		
Status	String	"OK" or "Error"
Data	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		
Refer to the input parameters of UpdateBackupSet API		
Example:		
Input		
{ "SysUser":"api_user", "SysPwd":"abc123\$%", "LoginName":"user", "BackupSetID":"1447039383821" }		
Output		
{ "Status": "OK", "Data": { "CloudName": "", "ProxySettings": null, "ReminderSettings": { "ReadOnly": false, "BackupIntervalHour": 0, "OfflineNotificationDay": 7, "AllowMultiple": false, "OfflineBackupEnabled": false, "OfflineBackupReminderComputerName": "", "Id": "", "BackupIntervalDay": 1, >ShowOfflineBackupReminder": true, "LogoutBackupReminderEnabled": false, "KeyName": "com.ahsay.obx.cxp.obs.ReminderSettings", "LogoutBackupReminderComputerName": "" }, }, }		


```

    "Attributes": [],
    "ValueSize": 9,
    "SubKeySize": 1,
    "NestedValues": [],
    "AttributeSize": 0,
    "BackupType": "",
    "Type": "all-volume",
    "MinUpdateInterval": 10,
    "TimeMarkInterval": 60,
    "Priority": -1,
    "MaxFileSize": -1,
    "ComputerName": "",
    "AllowMultiple": true,
    "SubKeys": [
      {
        "ConsiderCpuUsage": false,
        "ObserveInputForSecond": 60,
        "CpuUsage": 5,
        "ConsiderNetworkTraffic": false,
        "NetworkTraffic": 131072,
        "ConsiderInput": false
      }
    ],
    "Enable": false,
    "ExcludeSystemFiles": true,
    "FilterList": [],
    "InheritParentAttribs": false,
    "Content": "",
    "CdpBackupControlSettings": {
      "ConsiderCpuUsage": false,
      "ObserveInputForSecond": 60,
      "CpuUsage": 5,
      "ConsiderNetworkTraffic": false,
      "NetworkTraffic": 131072,
      "ConsiderInput": false
    },
    "Version": "v6",
    "SelectedSourceList": [],
    "KeyName": "com.ahsay.obx.cxp.obs.CdpSettings"
  },
  "CdpSettingsV7": {
    "ReadOnly": false,
    "Attributes": [],
    "ValueSize": 9,
    "SubKeySize": 1,
    "NestedValues": [],
    "AttributeSize": 0,
    "BackupType": "",
    "Type": "all-volume",
    "MinUpdateInterval": 10,
    "TimeMarkInterval": 60,
    "Priority": -1,
    "MaxFileSize": -1,
    "ComputerName": "",
    "AllowMultiple": true,
    "SubKeys": [
      {
        "ConsiderCpuUsage": false,
        "ObserveInputForSecond": 60,
        "CpuUsage": 5,
        "ConsiderNetworkTraffic": false,
        "NetworkTraffic": 131072,
        "ConsiderInput": false
      }
    ],
    "Enable": false,
    "ExcludeSystemFiles": true,
    "FilterList": [],
    "InheritParentAttribs": false,
    "Content": "",
    "CdpBackupControlSettings": {
      "ConsiderCpuUsage": false,
      "ObserveInputForSecond": 60,
      "CpuUsage": 5,
      "ConsiderNetworkTraffic": false,
      "NetworkTraffic": 131072,
      "ConsiderInput": false
    }
  }
]

```

```

        "NetworkTraffic": 131072,
        "ConsiderInput": false
    },
    "Version": "v7",
    "SelectedSourceList": [],
    "KeyName": "com.ahsay.obx.cxp.obs.CdpSettings"
},
"Version7Checked": true,
"ApplicationSettings": {
    "ReadOnly": false,
    "AllowMultiple": false,
    "WindowsOutlook": false,
    "@class": "com.ahsay.obx.cxp.cloud.FileSettings",
    "WindowsOutlookExpress": false,
    "WindowsDesktop": false,
    "Id": "",
    "Version": "",
    "WindowsMyDocuments": false,
    "WindowsMail": false,
    "WindowsFavourites": false,
    "WindowsLiveMail": false,
    "KeyName": "com.ahsay.obx.cxp.cloud.FileSettings"
},
"class": "com.ahsay.obx.cxp.obs.BackupSet",
"ReadOnlySourceList": [],
"FilterSettings": {
    "ReadOnly": false,
    "Enabled": false,
    "AllowMultiple": false,
    "FilterList": [],
    "Id": "",
    "KeyName": "com.ahsay.obx.cxp.obs.FilterSettings"
},
"ScheduleSettings": {
    "ReadOnly": false,
    "ComputerName": "",
    "CustomScheduleList": [],
    "AllowMultiple": false,
    "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",
            "AllowMultiple": true,
            "Hour": 21,
            "SpaceFreeUpEnabled": false,
            "Duration": -1,
            "Minute": 0,
            "Id": "1496974288546",
            "KeyName": "com.ahsay.obx.cxp.obs.DailySchedule"
        }
    ],
    "Id": "",
    "KeyName": "com.ahsay.obx.cxp.obs.ScheduleSettings"
},
"EncryptionSettings": {
    "ReadOnly": false,
    "KeyType": "hash",
    "AllowMultiple": false,
    "KeyLength": 128,
    "Key": "47DEQpj8HBSa+/TImW+5JCeuQeRkm5NMpJWZG3hSuFU=",
    "Type": "DEFAULT",
    "Id": "",
    "Algorithm": "",
    "Mode": "",
    "KeyName": "com.ahsay.obx.cxp.cloud.EncryptionSettings"
}

```

```

    },
    "Os": "",
    "DestinationSettings": {
        "ReadOnly": false,
        "AllowMultiple": false,
        "MaxDestination": 1,
        "ConcurrencyLevel": 1,
        "Id": "",
        "DestinationList": [],
        "KeyName": "com.ahsay.obx.cxp.obs.DestinationSettings"
    },
    "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",
        "AllowMultiple": false,
        "SetPermission": false,
        "Id": "",
        "SkipOffsiteBackup": false,
        "Zip": false,
        "LocalCopyRetentionPolicySettings": {
            "ReadOnly": false,
            "Period": 7,
            "Enabled": true,
            "AllowMultiple": false,
            "Id": "",
            "Unit": "DAYS",
            "KeyName": "com.ahsay.obx.cxp.obs.LocalCopyRetentionPolicySettings"
        },
        "KeyName": "com.ahsay.obx.cxp.obs.LocalCopySettings"
    },
    "VerifyBucketLocationInLogin": true,
    "RetentionPolicySettings": {
        "ReadOnly": false,
        "Period": 7,
        "AllowMultiple": false,
        "OverlapSensitive": false,
        "Type": "SIMPLE",
        "Id": "",
        "AdvancedRetentionPolicyList": [],
        "Unit": "DAYS",
        "KeyName": "com.ahsay.obx.cxp.cloud.RetentionPolicySettings"
    },
    "DefaultBSetSettings": {
        "ReadOnly": false,
        "Owner": "",
        "EnfBSet": false,
        "AllowMultiple": false,
        "Id": ""
    }
}

```

```

        "Category": "",
        "DefBSet": false,
        "Id": "",
        "KeyName": "com.ahsay.obx.cxp.obs.DefaultBSetSettings"
    },
    "Owner": null,
    "PostCommandList": [],
    "LocalFilesBackup": true,
    "TransferSize": 131072,
    "BandwidthControlSettings": {
        "ReadOnly": false,
        "Enabled": false,
        "AllowMultiple": false,
        "BandwidthControlList": [],
        "Id": "",
        "Mode": "independent",
        "KeyName": "com.ahsay.obx.cxp.cloud.BandwidthControlSettings"
    },
    "V6Passwords": {
        "ReadOnly": false,
        "AllowMultiple": false,
        "WinUserAuthPassword": "",
        "ApplicationPassword": "",
        "Id": "",
        "KeyName": "com.ahsay.obx.cxp.obs.V6Passwords"
    },
    "LanDomain": "",
    "ApplicationSupportRunDirect": false,
    "FollowLink": true,
    "DataMigrationSettings": {
        "ReadOnly": false,
        "SpaceFreeUpLastAccess": 0,
        "AllowMultiple": false,
        "MigrationProgress": {
            "ReadOnly": false,
            "NumOfCompletedFiles": 0,
            "AllowMultiple": false,
            "TotalNumOfFiles": 0,
            "Id": "",
            "CurrentMigratingFilePath": "",
            "KeyName": "com.ahsay.obx.cxp.obs.MigrationProgressBean"
        },
        "Id": "",
        "IntegrityCheckLastAccess": 0,
        "DataMigrationMappingStart": false,
        "KeyName": "com.ahsay.obx.cxp.obs.DataMigrationSettings"
    },
    "Name": "opendirect - Run on Server - Default",
    "BackupTypes": [],
    "ReadOnlyDeselectedSourceKeyList": [],
    "ResolvedFromDefaultBset": false,
    "DeselectedSourceList": [],
    "EffectiveOwner": "-",
    "UsedQuota": 0
}
}

```

4.2.20 ListBackupFiles

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

URL:		
ListBackupFiles.do">http://BACKUP_SERVER/obs/api/json>ListBackupFiles.do		
Available since version:		
7.5		
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
BackupSetID	String	Obtainable in ListBackupsets API
BackupJobID	String	Obtainable in GetBackupsets 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	
BackedUpByJob	String	
InBackupJob	String	
LastModified	Long	

Example:

Input
{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "legacyuser01" }
Output
{ "Status": "OK", "Data": [{ "Name": "b1", "Type": "FILE", "ID": "1493865532152" }] }

4.2.21 ListBackupJobMode

This API list all backup jobs information at a date specified.

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

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

URL:		
http://BACKUP_SERVER/obs/api/json/ListBackupJobMode.do		
Available since version:		
7.3		
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
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"
	ExType	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	
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"}]} }		

4.2.22 ListBackupJobs

This API shows a basic information of all backup jobs of a user.

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

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

URL:			
http://BACKUP_SERVER/obs/api/json/ListBackupJobs.do			
Available since version:			
7.3			
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
	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"
	ExType	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}]}

4.2.23 ListBackupJobStatus

This API shows detailed information such like destination ID and job status of all backup job at a specific date.

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

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

URL:		
ListBackupJobStatus.do">http://BACKUP SERVER/obs/api/json>ListBackupJobStatus.do		
Available since version:		
7.5		
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
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
	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\$%", "LoginName":"user", "BackupDate": "2016-05-05" }
Output
{ >Status":"OK", >Data": [{ "Owner": "", "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": "" }] }

4.2.24 ListBackupSets

This API shows name,type and ID of all backup sets 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]

URL:		
http://BACKUP_SERVER/obs/api/json/ListBackupSets.do		
Available since version:		
7.3		
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
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	<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>
Example:		
Input		
{ "SysUser":"api_user", "SysPwd":"abc123\$%", "LoginName":"user" }		
Output		
{ "Status":"OK", "Data": [{ "Name":"backupset-test", "Type":"FILE", "ID":"1447039383821" }] }		

4.2.25 RunBackup

This API allows you to run or cancel running a backup set of a user.

URL:		
http://BACKUP_SERVER/obs/api/json/RunBackup.do		
Available since version:		
7.5		
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

BackupSetID	String	Obtainable in ListBackupsets API
CancelBackup	Boolean	The default value is false
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"}		

4.2.26 AddPreCommand

This API allows you to add pre-backup command to a backup set. Added command will run before the backup takes action.

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:	http://BACKUP_SERVER/obs/api/json/AddPreCommand.do	
Available since version:	7.3	
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
BackupSetID	String	Obtainable in ListBackupsets API
Name	String	Command Name
WorkingDir	String	Directory where the command takes place
Command	String	
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":"1447039383821", "Name":"test", "WorkingDir":"test", "Command":"test" } </pre>
	Output
	{"Status":"OK"}

4.2.27 UpdatePreCommand

This API updates a precommand from 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 >[Backup Set]> Choose a backup set >[Command Line Tool]

URL:	http://BACKUP SERVER/obs/api/json/UpdatePreCommand.do																												
Available since version:	7.3																												
Parameters:																													
<table border="1"> <thead> <tr> <th>Key</th><th>Type</th><th>Descriptions</th></tr> </thead> <tbody> <tr> <td>SysUser</td><td>String</td><td>AhsayCBS's system users with admin role</td></tr> <tr> <td>SysPwd</td><td>String</td><td>AhsayCBS's system users password with admin role</td></tr> <tr> <td>LoginName</td><td>String</td><td>Client user name</td></tr> <tr> <td>BackupSetID</td><td>String</td><td>Obtainable in ListBackupsets API</td></tr> <tr> <td>ID</td><td>Long</td><td>Command ID, Obtainable in GetBackupset API</td></tr> <tr> <td>Name</td><td>String</td><td>Command Name</td></tr> <tr> <td>WorkingDir</td><td>String</td><td>Directory where the command takes place</td></tr> <tr> <td>Command</td><td>String</td><td></td></tr> </tbody> </table>			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	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	
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																											
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																												
Return Values:																													
<table border="1"> <thead> <tr> <th>Key</th><th>Type</th><th>Descriptions</th></tr> </thead> <tbody> <tr> <td>Status</td><td>String</td><td>"OK" or "Error"</td></tr> <tr> <td>Message</td><td>String</td><td>Error message, it exists only if status is "Error"</td></tr> <tr> <td>ExptType</td><td>String</td><td>The type of exception, it exists only if status is "Error"</td></tr> </tbody> </table>			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"															
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", </pre>																												

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

4.2.28 RemovePreCommand

This API removes a precommand from a backup set of a user.

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

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

URL:	http://BACKUP_SERVER/obs/api/json/RemovePreCommand.do																			
Available since version:	7.3																			
Parameters:																				
<table border="1"> <thead> <tr> <th>Key</th><th>Type</th><th>Descriptions</th></tr> </thead> <tbody> <tr> <td>SysUser</td><td>String</td><td>AhsayCBS's system users with admin role</td></tr> <tr> <td>SysPwd</td><td>String</td><td>AhsayCBS's system users password with admin role</td></tr> <tr> <td>LoginName</td><td>String</td><td>Client user name</td></tr> <tr> <td>BackupSetID</td><td>String</td><td>Obtainable in ListBackupsets API</td></tr> <tr> <td>ID</td><td>String</td><td>ID of precommand. Obtainable in GetBackupSet API.</td></tr> </tbody> </table>			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	BackupSetID	String	Obtainable in ListBackupsets API	ID	String	ID of precommand. Obtainable in GetBackupSet API.
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																		
BackupSetID	String	Obtainable in ListBackupsets API																		
ID	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																			
	<pre> { "SysUser":"api_user", "SysPwd":"abc123\$%", "LoginName":"user", </pre>																			

	<pre>"BackupSetID":"1447039383821", "ID":"1447039523357" }</pre>
	Output
	{"Status":"OK"}

4.2.29 AddPostCommand

This API adds a post command for a backup set of a user.

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

- ⑤ [Backup/Restore]>[User, Groups & Policies]> [Backup user]> Choose a user >[Backup Set]> Choose a backup set >[Command Line Tool]

URL:		
http://BACKUP_SERVER/obs/api/json/AddPostCommand.do		
Available since version:		
7.3		
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
BackupSetID	String	Obtainable in ListBackupsets API
Name	String	Command Name
WorkingDir	String	Directory where the command takes place
Command	String	
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"}

4.2.30 UpdatePostCommand

This API updates a post command for a 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 backup set >[Command Line Tool]

URL:		
http://BACKUP_SERVER/obs/api/json/UpdatePostCommand.do		
Available since version:		
7.3		
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
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	
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		
{ "SysUser":"api_user", "SysPwd":"abc123\$%", }		

```

    "LoginName":"user",
    "BackupSetID":"1497925931498",
    "ID":" 1497950369669",
    "WorkingDir":"newworkingdir"
}

```

Output

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

4.2.31 RemovePostCommand

This API removes a post command in a backup set of a user

URL:

http://BACKUP_SERVER/obs/api/json/RemovePostCommand.do

Available since version:

7.3

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
BackupSetID	String	Obtainable in ListBackupsets API
ID	Long	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
<pre>{ "SysUser":"api_user", "SysPwd":"abc123\$%", "LoginName":"user", "BackupSetID":"1447039383821", "ID":"1447039761786" }</pre>
Output
{"Status":"OK"}

4.3 Report

4.3.1 GetBackupJobReport

This API retrieves a detailed report of a particular backup job.

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

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

URL:		
http://BACKUP_SERVER/obs/api/json/GetBackupJobReport.do		
Available since version:		
7.3		
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 . To remove multiple users, join their login names, separated with “*”
Owner	String	To remove multiple users, join their owner, separated with “*”
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	
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	
TotalNewFileSize	Long	
TotalUnzipNewFileSize	Long	
NewFilesZipRatio	Long	
NumOfUpdatedFiles	Long	
TotalUpdatedFileSize	Long	
TotalUnzipUpdatedFileSize	Long	
UpdatedFilesZipRatio	Long	
NumOfUpdatedPermissionFiles	Long	
TotalUpdatedPermissionFileSize	Long	
TotalUnzipUpdatedPermissionFileSize	Long	
UpdatedPermissionFilesZipRatio	Long	
NumOfDeletedFiles	Long	
TotalDeletedFileSize	Long	
TotalUnzipDeletedFileSize	Long	
DeletedFilesZipRatio	Long	

	NumOfMovedFiles	Long			
	TotalMovedFileSize	Long			
	TotalUnzipMovedFileSize	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				
UnzipFileSize	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				
UnzipFileSize	Long				
Ratio	String				
Example:					
Input					
{ "SysUser": "api_user", "SysPwd": "abc123\$%", "LoginName": "user", "BackupSetID": "1462427376949", "BackupJobID": "2016-05-05-13-51-27", "DestinationID": "1462427482126" }					
Output					
{ >Status": "OK", >Data": { "TotalUnzipCopiedFileSize": 0, "TotalUnzipMovedFileSize": 0, "Logs": [{ "Message": "Saving encrypted backup set encryption keys to server...", }] } }					

```

    "Type": "info",
    "Log Type": "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"
},
{
    "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"
    }
]

```

```

        "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,
"TotalDeletedFileSize": 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%",
"TotalUnzipUpdatedFileSize": 0,
"UpdatedFilesZipRatio": "0%",
"NumOfNewLinkDirCount": 3,
"CopiedFilesZipRatio": "0%",
"TotalUpdatedFileSize": 0,
"SuccessDatabase": "",
"NumOfNewDirCount": 7,
"NumOfDeletedDirCount": 0,
"EndTime": "2016-05-05 13:51:58",
"TotalUnzipDeletedFileSize": 0,
"TotalNewFileSize": 2815658,
"TotalUnzipNewFileSize": 2970346
}
}

```

4.3.2 GetBackupJobReportSummary

This API retrieves 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:		
http://BACKUP_SERVER/obs/api/json/GetBackupJobReportSummary.do		
Available since version:		
7.3		
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	

	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 bacup.
NumOfWarnEntries	Long	Number of warning during backup
NumOfErrorEntries	Long	Number of error during backup
NumOfNewFiles	Long	Number of new files backup
TotalNewFileSize	Long	Total size of new files backup
NumOfUpdatedFiles	Long	Number of files updated
TotalUpdatedFileSize	Long	Total size of updated files.
NumOfDeletedFiles	Long	Number of files deleted
TotalDeletedFileSize	Long	Total size of deleted files
NumOfMovedFiles	Long	Number of files moved
TotalMovedFileSize	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",	
"TotalMovedFileSize": 0,	
"NumOfErrorEntries": 0,	
"NumOfDeletedFiles": 0,	
"TotalDeletedFileSize": 0,	
"SuccessDatabase": "",	
"TotalUpdatedPermissionFileSize": 0,	
"ID": "2016-05-05-13-51-27",	

	<pre> "NumOfMovedFiles": 0, "NumOfWarnEntries": 0, "EndTime": "2016-05-05 13:51:58", "StartTime": "2016-05-05 13:51:28", "TotalNewFileSize": 2815658, "SuccessPublicFolder": "", "TotalCopiedSize": 0 } } </pre>
--	--

4.3.3 GetRestoreJobReport

This API retrieves 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:	http://BACKUP_SERVER/obs/api/json/GetRestoreJobReport.do		
Available since version:			
7.3			
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		
BackupSetID	String	Obtainable in GetBackupset API	
JobID	String	ID of restore job. Obtainable in GetBackupset API	
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	<p>This key exists if restore is run by 7 client only</p> <p>The value can be one of the following:</p> <p>RESTORE_STOP_SUCCESS_WITH_ERROR RESTORE_STOP_SUCCESS_WITH_WARNING RESTORE_STOP_SUCCESS RESTORE_STOP_BY_USER RESTORE_STOP_BY_ERROR</p>	
TotalFileCount	Long	Total file restored	
TotalFileSize	Long	Total files size restored	
Logs	Array of Log		
	Log		
	Key	Type	Descriptions
Type	String	<p>The value can be one of the following:</p> <p>file info</p>	

	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

5 RPS API

5.1 RPS Receiver

5.1.1 ListReceiver

This API lists all the receiver and their settings in replication.

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

- ▶ [Replication]>[Accepting Data]> [Receiver]

URL:		
http://BACKUP_SERVER/rps/api/json/ListReceiver.do		
Available since version:		
7.5		
Parameters:		
Key	Type	Descriptions
SysUser	String	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password 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	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password 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
ObsPwd	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,
      "RetentionCustomizationPolicy": 60,
      "TrafficLimits": [],
      "ObsSysPwd": "system",
      "SystemHome": "/usr/local/cbs_7_12.4/system/rps/recvshome/test"
    }
  ]
}
```

5.1.2 UpdateReceivers

This API updates the setting of a receiver in replication.

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

- ▶ [Replication]>[Accepting Data]> [Receiver]

URL:		
	http://BACKUP_SERVER/rps/api/json/UpdateReceivers.do	
Available since version:		
7.5		
Parameters:		
Key	Type	Descriptions
SysUser	String	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password 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	
OBSHome	String	
IPRestriction		
Key	Type	Descriptions
Id	Long	
From	String	
To	String	
Example:		
Input		
{ "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 }		
Output		
{ >Status": "OK" }		
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 removes a receiver in replication.

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

- ▶ [Replication]>[Accepting Data]> [Receiver]

URL:		
http://BACKUP_SERVER/rps/api/json/RemoveReceiver.do		
Available since version:		
7.5		
Parameters:		
Key	Type	Descriptions
SysUser	String	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password 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 updates 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:		
http://BACKUP_SERVER/rdr/api/json/UpdateLicense.do		
Available since version:		
7.3		
Parameters:		
Key	Type	Descriptions
SysUser	String	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password 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 updates a RDR sever configuration.

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

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

URL:		
http://BACKUP_SERVER/rdr/api/json/UpdateServerConfig.do		
Available since version:		
7.5		
Parameters:		
Key	Type	Descriptions
SysUser	String	AhsayCBS's system users with admin role
SysPwd	String	AhsayCBS's system users password with admin role
SkipDuplicateUserCheck	Boolean	Do not check duplicate users
BackupServers	Array of BackupServer	Redirector will redirect user to these backup servers
EnableRdrFreeTrial	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:		
BackupServer		
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		
<pre>{ "SysUser": "system", "SysPwd": "system", "BackupServer": [{ "Id": "1", "Enabled": true, "HttpEnabled": true, "SslEnabled": false, "LoginName": "system", "Password": "system", "Hostname": "10.16.30.11", "HttpPort": 80 }] }</pre>		

```
"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 send an email to our [support team](#) via our [forum](#).

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	Timezone Name
GMT-11:00 (NUT)	Niue Time
GMT-11:00 (SST)	Samoa Standard Time
GMT-10:00 (CKT)	Cook Islands Time
GMT-10:00 (HADT)	Hawaii-Aleutian Daylight Time
GMT-10:00 (HST)	Hawaiian Standard Time
GMT-10:00 (TAHT)	Tahiti Time
GMT-09:00 (AKDT)	Alaska Standard Time
GMT-09:00 (GAMT)	Gambier Time
GMT-08:00 (PDT)	Pacific Daylight Time (North America)
GMT-08:00 (PST)	Pacific Standard Time (North America)
GMT-07:00 (MDT)	Mountain Daylight Time
GMT-07:00 (MST)	Mountain Standard Time
GMT-06:00 (CST)	Central Standard Time
GMT-06:00 (EAST)	Easter Island Time
GMT-06:00 (GALT)	Galapagos Time
GMT-05:00 (CDT)	Central Daylight Time (North America)
GMT-05:00 (COT)	Colombia Time
GMT-05:00 (ECT)	Ecuador Time
GMT-05:00 (EST)	Eastern Standard Time (North America)
GMT-05:00 (PET)	Peru Time
GMT-04:00 (ACT)	Acre Time
GMT-04:00 (ADT)	Acre Daylight Time Atlantic Standard Time
GMT-04:00 (AMT)	Armenia Time
GMT-04:00 (AST)	Atlantic Standard Time
GMT-04:00 (BOT)	Bolivia Time
GMT-04:00 (CLT)	Chile Time
GMT-04:00 (EDT)	Eastern Daylight Time
GMT-04:00 (GYT)	Guyana Time
GMT-04:00 (PYT)	Paraguay Time
GMT-03:00 (ART)	Argentina Time
GMT-03:00 (BET)	Brazil Eastern Time
GMT-03:00 (BRT)	Brasilia Time
GMT-03:00 (FKT)	Falkland Islands
GMT-03:00 (GFT)	Guiana Time
GMT-03:00 (PMDT)	Pierre & Miquelon Daylight Time
GMT-03:00 (SRT)	Suriname Time
GMT-03:00 (UYT)	Uruguay Time
GMT-03:00 (WGST)	West Greenland Summer Time
GMT-02:00 (FNT)	Fernando de Noronha Time
GMT-02:00 (GST)	Gulf Standard Time
GMT-01:00 (AZOST)	Azores Summer Time
GMT-01:00 (CVT)	Cape Verde Time
GMT-01:00 (EGST)	East Greenland Summer Time
GMT-01:00 (EGT)	East Greenland Time
GMT+00:00 (BST)	Brazil Standard Time
GMT+00:00 (GMT)	Greenwich Mean Time
GMT+00:00 (IST)	Israel Standard Time
GMT+00:00 (UTC)	Coordinate Universal Time
GMT+00:00 (WEST)	Western European Summer Time
GMT+00:00 (WET)	Western European Time
GMT+01:00 (CET)	Central European Time
GMT+01:00 (WAT)	West Africa Time
GMT+02:00 (CAT)	Central Africa Time
GMT+02:00 (CEST)	Central European Summer Time
GMT+02:00 (EEST)	Eastern European Summer Time
GMT+02:00 (EET)	Eastern European Time
GMT+02:00 (IDT)	Israel Daylight Time
GMT+02:00 (SAST)	South Africa Standard Time
GMT+03:00 (ADT)	Acre Daylight Time
GMT+03:00 (AST)	Acre Standard Time
GMT+03:00 (EAT)	East Africa Time
GMT+04:00 (AMST)	Armenia Summer Time
GMT+04:00 (AZST)	Azerbaijan Summer Time
GMT+04:00 (GEST)	Georgia Time
GMT+04:00 (GST)	Gulf Standard Time
GMT+04:00 (MSD)	Moscow Daylight Time
GMT+04:00 (MUT)	Mauritius Time
GMT+04:00 (RET)	Reunion Time

GMT+04:00 (SAMST)	Samara Time
GMT+04:00 (SCT)	Seychelles Time
GMT+05:00 (AQTST)	Aqtau Summer Time
GMT+05:00 (MAWT)	Mawson Time
GMT+05:00 (MVT)	Maldives Time
GMT+05:00 (PKT)	Pakistan Time
GMT+05:00 (TFT)	French Southern & Antarctic Lands Time
GMT+05:00 (TJT)	Tajikistan Time
GMT+05:00 (TMT)	Turkmenistan Time
GMT+05:00 (UZT)	Uzbekistan Time
GMT+06:00 (ALMST)	Almaty Summer Time
GMT+06:00 (BDT)	Bangladesh Time
GMT+06:00 (BTT)	Bhutan Time
GMT+06:00 (IOT)	Indian Ocean Territory Time
GMT+06:00 (KGST)	Kyrgyzstan Summer Time
GMT+06:00 (YEKST)	Yekaterinburg Summer Time
GMT+07:00 (CXT)	Christmas Island Time
GMT+07:00 (ICT)	Indochina Time
GMT+07:00 (JAVT)	Java Time, Indonesia Time
GMT+07:00 (NOVT)	Novosibirsk Time
GMT+08:00 (BNT)	Brunei Darussalam Time
GMT+08:00 (BORT)	Borneo Time
GMT+08:00 (CST)	Cuba Standard Time
GMT+08:00 (HKT)	Hong Kong Time
GMT+08:00 (KRAT)	Krasnoyarsk Time
GMT+08:00 (MYT)	Malaysia Time
GMT+08:00 (PHT)	Philippine Time
GMT+08:00 (SGT)	Singapore Time
GMT+08:00 (ULAT)	Ulan Bator Time
GMT+08:00 (WST)	West Samoa Time
GMT+09:00 (IRKST)	Irkutsk Summer Time
GMT+09:00 (JAYT)	Jayapura Time
GMT+09:00 (JST)	Japan Standard Time
GMT+09:00 (KST)	Korean Standard Time
GMT+09:00 (PWT)	Palau Time
GMT+10:00 (ChST)	Chamorro Standard Time
GMT+10:00 (DDUT)	Dumont-d'Urville Time
GMT+10:00 (EST)	Australia Eastern Standard Time
GMT+10:00 (PGT)	Papua New Guinea Time
GMT+10:00 (YAKT)	Yakutsk Time
GMT+11:00 (KOST)	Kosrae Time
GMT+11:00 (NCT)	New Caledonia Time
GMT+11:00 (PONT)	Ponape Time
GMT+11:00 (SBT)	Solomon Islands Time
GMT+11:00 (VLAT)	Vladivostok Time
GMT+11:00 (VUT)	Vanuatu Time
GMT+12:00 (ANAST)	Anadyr Time
GMT+12:00 (FJT)	Fiji Time
GMT+12:00 (GILT)	Gilbert Island Time
GMT+12:00 (MAGT)	Magadan Time
GMT+12:00 (MHT) (TVT)	Marshall Islands Time Tuvalu Time
GMT+12:00 (NRT)	Nauru Time
GMT+12:00 (NZST)	New Zealand Standard Time
GMT+12:00 (PETST)	Petropavlovsk-Kamchatski Time
GMT+12:00 (TVT)	Tuvalu Time
GMT+12:00 (WAKT)	Wake Time
GMT+12:00 (WFT)	Wallis and Futuna Time
GMT+13:00 (WST)	West Samoa Time

Appendix C Product Documentation

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