Ahsay Offsite Backup Server v5.2

Administrator's Guide

Version 5.2.5.0 Jan 2008

## Ahsay Offsite Backup Server v5.2

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Author: Scherring Chong

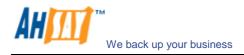
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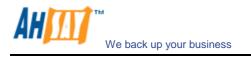
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### **Overview**

#### 1.1 **Benefits**

- Easy Backup of
  - 1. Microsoft Exchange Server 2000 / 2003 / 2007
  - Microsoft SQL Server 7.0 / 2000 / 2005 2.
  - 3. Lotus Domino/Notes 5.0 or above
  - 4. Oracle 8i or above
  - MySQL 3.2.4 or above 5.
  - Windows System State 6.
  - Outlook and Outlook Express (i.e. \*.pst, \*.dbx and \*.wab) 7.
  - Important personal settings, e.g. Desktop, Favorite, My Documents and History etc Other common files (e.g. \*.doc, \*.xls) 8
  - 9
- Support backing up only changes within a file (using in-file delta technology)
- Support backing up of open files on Windows XP / 2003 / Vista (Volume Shadow Copy)
- Support backing up of Windows NTFS access privileges, Linux access privileges and modes, Mac OS X metadata and resource forks
  - Easy to use, deploy and maintain

#### 1.2 Features

- (New in 5.2) Full support of Microsoft Exchange individual email, contacts, calendars, tasks etc.
- (New in 5.2) New easy to use backup client for home/SOHO users.
- (New in 5.2) Allow the administrator to set whether to "copy a file" to retention area when the file permissions are updated.
- (New in 5.2) Choose whether to restore "file permissions" during restore.
- (New in 5.2) For "Local Copy" backup, ability to choose whether to perform a local copy backup only and skip the offsite backup.
- (New in 5.2) Lotus Notes/Domino agent for Linux.
- (New in 5.2) Auto Upgrade Agent to automatically upgrade the client software.
- (OEM version only) All references to Ahsay can be removed or branded to your own company name, address, phone and email
- (OEM version only) Allow unlimited backup trial accounts to be created on the backup server (with unlimited backup quota for a trial period of 30 days)
- (OEM version only) Create branded installer for backup client software. No special setup is required to offer free trial subscriptions to potential users
- User configurable incremental / differential in-file delta backup mode (i.e. backing up only changes within a file since the last incremental or full backup according to each user's preference).
- Allow in-file delta backup mode to be overridden by each user individually according to backup time (e.g. enforcing full (or incremental or differential) backup of all files on every Sunday or the 1<sup>st</sup> day of every month).
- Volume Shadow Copy backup (i.e. backing up files even when they are exclusively open, e.g. Outlook.pst).
- Bandwidth Throttling at backup account level.
- In-File Delta backup (i.e. backing up only changes within files).
- Off-line backup mode and logout backup reminder.
- Real time backup server replication allows the backup server to be easily backed up.
- Customizable backup schedule allows backup to be scheduled at any time.
- Compress and encrypt data automatically before sending them to the server (server stores only encrypted data).
- Increment backup strategy ensures that only new or updated files are sent to the backup server.
- Support both full backup (database backup) and incremental backup (transaction log backup) for Microsoft SQL Server 7.0/2000, Microsoft Exchange Server 2000/2003, Lotus Domino/Notes 5.0 and Oracle 8i or above.
- Can integrate with external "Open File Manager" to provide open file backup support to all open files. Access backup data anytime, anywhere by using a web browser.
- Comprehensive backup report lists all files backed up. Backup report will be delivered to user automatically via email.
- Backup data are CRC validated before they are stored on server.
- Fully user customizable data retention policy allows users to have access to deleted files using the least possible storage space on the backup server.
- Select files to be backed up easily by using a backup filter, e.g. selecting all \*.doc and \*.xls in your computer in a single operation.



- Run any custom OS commands before/after a backup job.
- Run on Windows, Mac OS X, Linux, NetWare, Unix and all other platforms supporting a Java2 Runtime Environment.
- System activity report, showing all backup system information, will be delivered to system administrator via email everyday.
- Complete set of external APIs allow system integration with external systems (e.g. billing/payment system) to be done easily.
- Periodic backup files validation on backup server ensures backup files are 100% valid and fully restorable when needed.

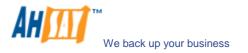
#### 1.3 Security

- 128-bit point-to-point SSL communication between server and client
- Support HTTP/HTTPS Proxy and Socks v4/v5 firewall
- Data are 128-bit encrypted when stored on backup server
- Choice of different encryption algorithms, e.g. Twofish, Triple DES, Advanced Encryption Standard (AES)
- Choice of different encryption modes, e.g. Electronic Cook Book (ECB) and Cipher Block Chaining (CBC)
- An random initializing vector, salt and iteration count will be generated by the software automatically for each file when encrypting your data
- Each backup user can restrict online access to his files to his pre-defined list of IP addresses

#### 1.4 System Requirements

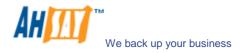
Server	-side applications	
	Supported Platforms	Hardware Requirements
OBS	<ul> <li>Windows 2000 / XP / 2003 (server recommended)</li> <li>Linux kernel 2.4 or above</li> <li>Solaris 2.x or above</li> <li>AIX</li> <li>HP-UX</li> <li>FreeBSD</li> <li>Mac OS X 10.2 or above</li> <li>All other operating systems that supports Java2 Runtime Environment 1.4.2 or above</li> </ul>	<ul> <li>Memory: <ul> <li>512MB (minimum)</li> <li>1GB (recommended)</li> </ul> </li> <li>Disk Space: <ul> <li>300MB</li> </ul> </li> <li>Network Protocol: <ul> <li>TCP/IP (http/https)</li> </ul> </li> </ul>
RPS	<ul> <li>Windows 2000 / XP / 2003 (server recommended)</li> <li>Linux kernel 2.4 or above</li> <li>Solaris 2.x or above</li> <li>AIX</li> <li>HP-UX</li> <li>FreeBSD</li> <li>Mac OS X 10.2 or above</li> <li>All other operating systems that supports Java2 Runtime Environment 1.4.2 or above</li> </ul>	<ul> <li>Memory: <ul> <li>128MB (minimum)</li> <li>512MB (recommended)</li> </ul> </li> <li>Disk Space: <ul> <li>100MB</li> </ul> </li> <li>Network Protocol: <ul> <li>TCP/IP (http/https)</li> </ul> </li> </ul>

\* The use of Windows 2000 WorkStation and XP Professional is only recommended for backup system with less than 20 users. For 20 or more users, please use Windows 2000 or 2003 Server instead.



#### Client-side applications

	Supported Platforms	Application Compatibilities	Hardware Requirements
OBM	<ul> <li>Windows 95 / 98 / ME / NT / 2000 / XP / 2003 / Vista</li> <li>Linux kernel 2.4 or above</li> <li>NetWare 5.1 or above</li> <li>Solaris 2.x or above</li> <li>AIX</li> <li>HP-UX</li> <li>FreeBSD</li> <li>Mac OS X 10.2 or above</li> <li>All other operating systems that supports Java2 Runtime Environment 1.3.1 or above</li> </ul>	<ul> <li>Microsoft Exchange Server 2000 / 2003 / 2007</li> <li>Microsoft SQL Server 7.0 / 2000 / 2005</li> <li>Lotus Domino / Lotus Notes 5.0 or above</li> <li>Oracle 8i or above</li> <li>MySQL 3.2.4 or above</li> <li>Outlook / Outlook Express i.e. *.pst, *.dbx and *.wab</li> <li>Other common files e.g. *.doc, *.xls</li> <li>Also supports backing up of:</li> <li>Windows System State (all platforms except Vista)</li> <li>Windows NTFS access privileges</li> <li>Linux access privileges and modes</li> <li>Mac OS X metadata and resource forks</li> </ul>	<ul> <li>Memory:         <ul> <li>128MB (minimum)</li> <li>256MB (recommended)</li> </ul> </li> <li>Disk Space:         <ul> <li>110MB</li> <li>Network Protocol:</li> <li>TCP/IP (http/https)</li> </ul> </li> </ul>
ACB	<ul> <li>Windows 95 / 98 / ME / NT / 2000 / XP / 2003 / Vista</li> <li>Mac OS X 10.2 or above</li> </ul>	<ul> <li>Outlook / Outlook Express i.e. *.pst, *.dbx and *.wab</li> <li>Other common files e.g. *.doc, *.xls</li> <li>Also supports backing up of: o Windows NTFS access privileges</li> </ul>	<ul> <li>Memory:         <ul> <li>128MB (minimum)</li> <li>256MB (recommended)</li> </ul> </li> <li>Disk Space:         <ul> <li>110MB</li> <li>Network Protocol:</li> <li>TCP/IP (http/https)</li> </ul> </li> </ul>



### 2 Installation

This chapter describes how to install/uninstall OBS onto/from your computer and how to startup/shutdown the OBS software installed on your computer.

#### 2.1 Install Software

To install OBS onto your computer, please do the followings:

- i. Go to http://www.ahsay.com/en/download/download\_customer\_latest.html
- ii. Download the corresponding version of the software you required, e.g. "Windows" -> "New Installation"
- iii. Download the "Installation and Upgrade Guide"
- iv. Follow the instructions in the "Installation and Upgrade Guide" to complete the installation

### 2.2 Startup/Shutdown

To startup/shutdown OBS, please do the followings:

#### On Windows

- i. Logon as [administrator] to Windows
- ii. Select the [Ahsay Offsite Backup Server] service from either:
  - a. (For Windows NT) [Control Panel] -> [Services]
  - b. (For Windows XP) [Control Panel] -> [Performance and Maintenance]
     -> [Administrative Tools] -> [Services]
  - c. (For Windows 2000/2003) [Control Panel] -> [Administrative Tools] -> [Services]
- iii. Startup/Shutdown
  - a. To startup OBS, press the [Start] button
  - b. To shutdown OBS, press the [Stop] button

#### <u>On Linux/Unix</u>

- iv. Logon as [root]
- v. To startup OBS , please run

(Unix/Linux) [root]# /etc/init.d/obs start
(FreeBSD) [root]# /usr/local/etc/init.d/obs start

vi. To shutdown OBS, please run

(

(Unix / Linux)	[root]#	/etc/init.d/obs stop	
(FreeBSD)	[root]#	/usr/local/etc/init.d/obs	stop

#### <u>On Mac OS X</u>

- i. Logon as a Mac user with [administrative privileges]
- ii. To startup OBS, please do the followings by using [Applications] → [Utility] → [Terminal]
   [localhost:~] user1% su -



```
Password:
[localhost:~] root# SystemStarter start AhsayOBS
```

iii. To shutdown OBS, please do the followings by using [Applications]  $\rightarrow$  [Utility]  $\rightarrow$  [Terminal]

```
[localhost:~] user1% su -
Password:
[localhost:~] root# SystemStarter stop AhsayOBS
```

#### 2.3 Uninstall Software

Please follow the following instructions to remove OBS from your computer:

#### On Windows

- iv. Logon as [administrator] to windows
- v. From [Control Panel] -> [Add or Remove Program]
- vi. Select the [Ahsay Offsite Backup Server] entry
- vii. Press the [Change / Remove] button
- viii. Press the [Uninstall] on the uninstall dialog
- ix. Remove the directory [C:\Program Files\Ahsay Offsite Backup Server] manually
- x. Remove all user backup and system files manually if they are not stored under OBS\_HOME.

#### <u>On Linux/Unix</u>

- i. Logon as [root]
- ii. Shutdown OBS

```
(Unix/Linux) [root]# /etc/init.d/obs stop
(FreeBSD) [root]# /usr/local/etc/init.d/obs stop
```

iii. Delete all files

```
[root]# export OBS_HOME=/usr/local/obs
[root]# rm -rf $OBS_HOME
```

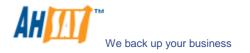
iv. Remove all user backup and system files manually if they are not stored under OBS\_HOME.

#### <u>On Linux/Unix</u>

- i. Logon as a Mac user with [administrative privileges]
- ii. Shutdown OBS, please do the followings by using [Applications]  $\rightarrow$  [Utility]  $\rightarrow$  [Terminal]

```
[localhost:~] user1% su -
Password:
[localhost:~] root# SystemStarter stop AhsayOBS
```

- iii. Delete all files under [/Applications/AhsayOBS]
- iv. Remove all user backup and system files manually if they are not stored under OBS\_HOME.



### 3 Quick Start

This chapter describes the minimum steps required to start using OBS. Please consult the information in the following chapters for a complete reference to all features available in OBS.

#### 3.1 Getting started

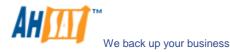
To setup your OBS, please do the followings:

- i. Point your browser to http://your-server/.
- ii. Logon to [Backup System Administration Logon]

The default login name and password are "system" and "system" respectively.

🏄 Offsite Backup Server Management Console - Mi	rrosoft Internet Explorer Administrator's Guide   Select Language
Administrator Login   User Login What you can do: Manage System • Define system setting • Customized system jobs • Update license information Manage User • Add/Remove backup accounts • Update users' backup setting • Set online file restoration IP restrictions Review logs	Administrator's Guide   Select Language Administrator Login Login Name: Password: Login Troubleshooting:  i. Check to see if your CAPS LOCK is on. Both the login name and password are case sensitive. ii. Please check to see if your system clock is correct. Cookies may not work correctly if
Review system logs     Review backup activities     Review restore activities     Review backup errors	your system clock is incorrect.

iii. Setup backup server



Offsite Backup Server Mana	gement Console - Microsoft Internet Exp	plorer		
anage System   <u>Manage L</u>			r's Guide   <u>Select L</u> a	anguag
erver Configuration   <u>Ro</u>	<u>utine Job   Software License   Replicatio</u>	on Config   <u>ACB</u>	Config	Logou
System Setting				
Login Name	: system			
Password	:			
Host Name	: www.backup-provider.com			
System Home	: D:\SystemHome			
User Homes	1 D:\UserHome			
	New			
Email System Setting				
SMTP Server		n Name	Password	
	1 smtp.backup-provider.co smtp	p-user	•••••	
	New			
Report Sender	: Name EMail			
	Backup Manager  report@backu	up-provider.com		
Administrator Contact	: Name EMail			
	1 Support Staff support	@backup.provide	er.com	
	New			

Prior to using OBS to backup your users' data, please do the followings:

a. Set your hostname

Enter a resolvable hostname of your backup server (e.g. backup.your-company.com) into the [Host Name] text field. Although you can supply an IP address here, it is preferable to use a host name instead.

Are you using custom TCP port? If so, try appending the custom port number to the [Host Name] field (e.g. backup.yourcompany.com:8080)

If you are not using custom port, make open a browser on the backup server and type in the value of [Host Name] as an URL. Check if you get the backup server homepage. If you don't get the webpage, try until you can reach it and put this value in the [Host Name] field.

b. Set the [User Homes] directory

[User Homes] refers to directories where OBS stores the backup files and backup log for all its users. You should set [User Homes] to directories where there are lots of free spaces.

c. Set your SMTP Server

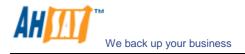
Enter a resolvable hostname (or an IP address) of your SMTP server into the [SMTP Server] text field

If your SMTP server is not running on standard SMTP ports (i.e. port 25), you can append your custom port number to your SMTP server address to use this server (e.g. mail.yourcompany.com:8025).

You are only required to enter The [Login Name] and [Password] text fields if your SMTP server requires user authentication when sending emails

- d. Press the [Update] button
- e. Enter your license key (You can skip this step if you are evaluating this software)

Enter the licensing information printed on [End User License Agreement] printout into the text field provided in the [Manage System] -> [Software License] panel. Please note that both [Licensee Name] and [License Key] are case sensitive.



#### iv. Add Backup User

You need to add a backup user to the system before you can start backing up data to OBS. To add a backup user to the system, please do the followings:

- f. Click the [Manage User] link available at the top menu and choose [Add User]
- g. Enter the user information for the new user account into the form provided

🎒 Offsite Backup Serv	er Management Console - Microsoft Internet Explorer	
		Select Language
Add User   List User		<u>Logout</u>
User Setting		
Login Name	:	
Password	:	
Alias	:	
Timezone	: GMT+08:00 (HKT)	
Language	: English	
Backup Client	: OBM User	
Advertise Group	: All 💌 ( ACB User Only )	
Туре	: Paid User 💌	
Email	:	
Welcome email	: 🗹 Enable	
Backup Setting		
User Home	<ul> <li>D:UserHome</li> <li>Where backup files for this user are to be stored on this server.</li> <li>Please use the Manage System -&gt; Server Configuration page to add an directory to the list above.</li> </ul>	other
Backup Quota	: 50.0 © Mbytes C Gbytes	
Bandwidth	: Unlimited Bits/Second	
Add-on Modules	<ul> <li>Microsoft Exchange Server M Microsoft SQL Server</li> <li>Oracle Database Server M MySQL Database Server</li> <li>Lotus Domino Lotus Notes</li> <li>In-File Delta Volume Shadow Copy</li> <li>Microsoft Exchange Mailbox</li> <li>(Max: 500)</li> </ul>	
E Done	Local in	tranet //,

Кеу	Description
Login Name	Login Name of the new account
Password	Password of the new account
Alias	Another name of the new account
Time zone	Time zone of the new account
Language	Preferred language for email report of the new account
Backup Client	Choose OBM client or ACB client
Advertise Group	For ACB clients only. Choose whether advertisements are displayed at the bottom of the ACB client
Туре	Trial User – Account of this type will be deleted from the system after an inactivity period of 30 days (max. quota of 500MB after 30 days trial period) Paid User - Account of this type will stay within the system until it is removed from the system by the administrator
Email	Email address of the new account
Welcome email	Check this option to send a welcome email
User Home	The top directory where the software stores backup files and all other information for the new account
Backup Quota	Backup Quota of the new account
Bandwidth	Bandwidth throttling for this user account
Add-on modules	Add-on modules for this user account



- v. Logon as the new user
  - a. Point your browser to http://your-server/.
  - b. Click the [Backup User Logon] link
  - c. Logon with the login name and password you have just created
- vi. Run Backup

Please follow the [Quick Start] information available in the Users' Guide to install the Online Backup Manager onto users' computer to start backing up data.



### 4 **Best Practices and Recommendations**

This chapter lists out all best practices and recommendations which you should consider before deploying OBS to a production environment.

# 4.1 Setting [System Home] and [User Homes] to disk partition with large free space

The default location of the [System Home] and [User Homes] settings are set to the system partition of a computer (i.e. C:\or /usr). Since [System Home] and [User Homes] directories will be used to store application data (e.g. backup data, setting and log files), from a system performance point of view, it is not advisable to use the system partition of a computer to store application data. Before production, it is HIGHLY IMPORTANT to change the [System Home] and [User Homes] settings to a directory under a non-system partition to ensure the best overall performance and to avoid unexpected fill up of the system partition.

### 4.2 Disk partitions larger than 500GB

We recommend thorough testing on disk partitions larger than 500GB size before putting the system into production. It has been reported that that OBS starts running into strange unexplainable problems after using partitions over 500GB for a couple of months. After further investigations, we find out that some storage devices do have undocumented restrictions of running partitions with up to 1TB of storage. As it is impossible to find out which storage device has the limitation, to avoid unnecessary problems, we would recommend testing the system with partition large than 500GB thoroughly before going into production, though there are partners who have been using partitions over a few terabytes with no problem.

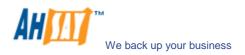
Having a smaller partition has a number of other benefits as well, e.g. it is a lot faster to do a scandisk on a smaller partition. This helps reducing downtime when you need to do maintenance on your storage devices. Also, it is better not to put all eggs in one basket by storing everything in a single partition. If your data is spanning across different partitions, even if you lost one partition, data on other partitions are still safe. Furthermore, file addition and deletion add entries to the MFT (master file table) of the NTFS partition table which never gets cleaned up (similar overhead can be found be in Linux ext partition as well). Performance will degrade much faster on large partitions than on smaller partitions.

#### 4.3 Running OBS as non-root user

If you are running OBS on Linux, you are advised to run the OBS service as non-root user. (OBS service is run under root by default). This minimizes the impact of damages that could be done on the system in case the system has been compromised by hackers. Please refer to the FAQ question of "How do I run OBS under non-root user on Linux?" for detailed instructions of how to do so.

### 4.4 Expose only TCP port 80 and 443 to the public

It is recommended to expose only TCP port 80 and 443 to the public on your firewall. Please consult the user's manual of your firewall for more information on how to do so.



# 5 Server Configuration

This chapter describes how you can use the [Manage System] -> [Server Configuration] page (shown below) to manage the configuration of your backup server.

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: syst	em			
:		•••		
: www	v.backup-provider.com	_		
: D:\S	ystemHome	_		
: 1	D:\UserHome	_		
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This section describes all settings under the [Manage System] menu.

Кеу	Description
Login Name / Password	Username and password of system account
Host Name	A resolvable hostname of this server (e.g. backup.your-company.com). Although you can supply an IP address here, it is preferable to use a host name instead.
System Home	The directory where OBS stores its system information. The default directory for [System Home] is %OBS_HOME%\system. Normally, you don't need to modify the value of this setting unless you want to store this information elsewhere.
User Homes	The directories where OBS stores the backup files and backup log for all its users. You should set [User Homes] to directories where there are lots of



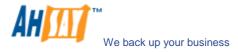
	free spaces.
SMTP Server	The SMTP server that OBS will use to deliver its email reports
Report Sender	The name and email address that will be used as a sender for all outgoing emails
Administrative Contact	The name(s) and email address(es) of the system administrator. System reports (e.g. Daily Usage Report and Daily Error Report) will be delivered to these mailboxes.
Use Proxy	Whether to use proxy to access the internet
Proxy Host / Port	Proxy server host and port number
Proxy Username / Password	Proxy user name and password if user authentication is used
Language Setting	It determines whether different languages are enabled
Features Setting	It determines whether the [FAQ], [Help], restore link and install link should be available to users
File Permissions	It determines whether the existing file are copied to retention area before updating the permission settings

### 5.1 User Languages Setting

The language of the web interface can be easily changed to another language by:

- i. Click the [Select Language] link available on the top right hand corner of the web interface
- ii. Select the language of your choice
- iii. All text messages from the original window are now displayed in the language you have just selected (see example below)

tall Software		FAQs   Help   Select Lang
gon   Forgot Password ?	Select Language - Microsoft Internet	X
Benefits: - Easy to use	English	
- Fully Automated - Daily backup - Save you time and	česky	
money	Dansk	Login
At a glance: - Backup your data automatically every	Deutsch	tK" is on.
day - Access your data anywhere, anytime	Español	ord are case
- Retain all backup files, even those that have been deleted	Français	ge to
- Backup your data to our secure data center - Fire? Earthquake?	Íslenska	y if your
Typhoon? Your data is always safe	Svenska	
	Nederlande	-
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rer le système   <u>Gérer le</u>	s journaux   Gérer les utilisateurs Guide de l'administrateur   Sélection de la lang
onfiguration du serveur	Travail de routine   Licence du logiciel   Configuration de la réplication   ACB Config Déconnexi
Configuration du systèm	e
Nom de connexion	: system
Mot de passe	: •••••
Nom d'hôte	: www.backup-provider.com
Répertoire système	: D:\SystemHome
Répertoire utilisateur	: 1 D:WserHome
Configuration du systèm	e de courriel
Serveur SMTP	Nom d'hôte         Nom de connexion Mot de passe           1         smtp.backup-provider.co         smtp-user           Nouveau
Expéditeur du rapport	: Nom courriel Backup Manager report@backup-provider.com
Contact administratif	: Nom courriel 1 Support Staff support@backup.provider.com
	Nouveau

The languages currently supported by OBS include English, Czech, Danish, Dutch, French, Spanish, Portuguese, Icelandic, Norwegian, Finnish, Italian, German, Swedish, Chinese (Traditional and Simplified), Japanese, Lithuanian and Slovenian. You can limit the list of languages available to users by using the [Manage System] -> [Server Configuration] -> [Language Setting] options.

If you uncheck all checkboxes for all languages available in [Manage System] -> [Server Configuration] -> [Language Setting], the [Select Language] will no longer be available on the top right and corner of the web interface (you need to refresh the top menu bar to see the change). Users will not be able to change the language of the web interface.

	nagement Console - Microsoft Interr		
anage System   Manage	<u>e Log   Manage User</u> Routine Job   <u>Software License</u>   <u>Rep</u>		ninistrator's Guide   Select Langua
	Software License   Kep	ication coming   Acd coming	Loa
Use Proxy			
Туре	: HTTP 💌		
Proxy Host	:	Port :	
Proxy Username	:	( option	al)
Proxy Password	:	( option	al)
Options			
Language Setting	English	Czech	German
	Danish	Spanish	Finnish
	French	Icelandic	Italian
	Dutch	Norwegian	Swedish
	Chinese (Traditional)	Chinese (Simplified)	Japanese
	Slovenian	Lithuanian	Portuguese (Portugal)
Features Setting	: 🗹 Show Help link	Show FAQ link	
	Show Restore Link	Show Install Link	
File Permissions	: 🗹 Copy the file to retention	area before updating permission	ons
Done			Local intranet





#### 5.2 System Login Name/Password

The [Login Name] and [Password] setting under the [Manage System] -> [Server Configuration] page sets the login name and password (the default username/password is system/system) that you would use to logon the system administration console. Users are recommended to change both the login name and password to something other than the default setting to avoid unauthorized access to the backup system.

#### 5.3 Host Name

The [Host Name] setting under the [Manage System] -> [Server Configuration] page sets the hostname of the backup server. This entry will be used as a reference to the backup server in all email reports. Please enter a hostname/IP address (a public hostname/IP address if you expect backup requests originating from the internet).

Also, please make sure that the [Host Name] entry is accessible from the backup server itself. This means that if you enter "backup.your-backup.com" into the [Host Name] entry, please make sure that when you enter "http://backup.your-backup.com" into the URL of a browser on the backup server itself, you can access the backup system welcome page.

If you are running OBS on custom TCP port (i.e. NOT Port 80 and Port 443), please append your custom TCP port number to the [Host Name] entry. For example, if you are running OBS on TCP Port 8080 for HTTP, please enter "backup.your-backup.com: 8080" as your [Host Name] entry (Please do not enter the custom TCP Port for HTTPS, e.g. 8443, into the [Host Name] field as it will not work).

#### 5.4 System Home and User Home Directories

The [System Home] and [User Homes] setting under the [Manage System] -> [Server Configuration] page sets the system home directory and user home directories for OBS (the default values are "C:\Program Files\Ahsay Offsite Backup Server\system" and "C:\Program Files\Ahsay Offsite Backup Server\user" for Windows).

The system home directory for OBS defines a directory in which OBS will store all its system information.

The user home directories for OBS define a list of directories in which OBS can be used to store the user folder for each backup user. Each user folder contains the backup setting as well as all backup data owned by this particular user.

Multiple user home directories can be set for OBS. This means that you can spread your users across different hard disk partitions (or different hard disks) and this will allow you to expand the storage available to OBS easily. For example, if you want to add more storage to OBS, you can simply add another hard disk (or NAS device) to the system and add the path to this new drive (e.g. E:\or E:\Users) to the [User Homes] setting. You can then add new backup users (or <u>move existing backup users</u>) to this user home folder.

Backup users created by OBM "Free Trial Registration" wizard will always use the first [User Homes] entry as the user home to create backup users. If you want to offer free trial to your users and have enabled the "Free Trial Registration" option on the [Manage System] -> [Server Configuration] page, please make sure that there is enough free space available in the first entry of the [User Homes] settings to avoid running out of free space.



Please also see "How do I set the user home directory to a network drive?" in the FAQ section.

### 5.5 Email System Setting

The [Email System Setting] settings under the [Manage System] -> [Server Configuration] page defines the various email setting OBS will use to generate email reports to backup system administrator and backup users.

The [Email System Setting] -> [SMTP Server] -> [Host Name] entry defines the SMTP server that will be used by OBS to deliver its email reports. If you are using a SMTP server that is not running on SMTP standard TCP port (port 25), please append your custom TCP port number for SMTP service to the [SMTP Server] -> [Host Name] entry (e.g. mail.your-company.com: 8025).

You are only required to fill in the [SMTP Server] -> [Login Name] and [SMTP Server] -> [Password] entry if the SMTP server you are using required user authentication before accepting mail delivery requests.

Multiple SMTP servers can be setup for OBS. If the first SMTP server is unavailable, the next SMTP server will be used.

The [Email System Setting] -> [Report Sender] entry defines the "Mail-From" email address that appears in all outgoing emails generated by OBS.

The [Email System Setting] -> [Administrator Contact] entry defines the administrative contact of OBS. OBS will send daily usage and error report and all critical system alert to all email addresses defined here.

#### 5.6 **Proxy Setting**

The [Use Proxy] settings under the [Manage System] -> [Server Configuration] page defines whether OBS should use a proxy to gain access to the internet.

Two types of proxy, HTTP/HTTPS and SOCKS 4/5, are supported. You can use the [Proxy Host] and [Port] entries to define the location of your proxy server. If the proxy server you are using requires user authentication, please use the [Proxy Username] and [Proxy Password] entries to set the username/password for your proxy server.

#### 5.7 Features Setting

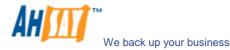
The [Features Setting] settings under the [Manage System] -> [Server Configuration] page defines whether some customizable features on the web interface should be enabled or not.

rver Configuration	<u>Routine Job   Software License   Repli</u>	cation Config   ACB Config	L.	aout
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	Chinese (Traditional)	Chinese (Simplified)	Japanese	
	Slovenian	Lithuanian	Portuguese (Portugal)	
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	Show Restore Link	Show Install Link		
ile Permissions	Copy the file to retention	area before updating permissio	ons	
Enable Free Trial R	legistration			
lackup Quota	: 50 Mbytes 💌 ( Quota will be	e reset to 500 Mbytes 💌 after	r 30 💌 Days )	
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	MySQL Database Server			
	☑ Lotus Domino	Lotus Notes		
	☑ In-File Delta	Volume Shadow Copy		
	Microsoft Exchange Mailbo	x 10 💌		
Remove User	: 60 💌 Days after registratio	n		
	Update	Reset		
iavascript:localeWindow("/ob	s/isp/selectLocale.isp?url=%2fobs%2fisp%	2fsystem%2fconfig%2f	Local intranet	
			, , , , , , , , , , , , , , , , , , , ,	111

Show FAO link

Key

web administration console (user interface only)



Show Help link	It defines whether the [Help] link should appear at the top right hand corner of the web administration console (user interface only)
Show Restore Link	It defines whether the [Restore] link should appear at the top right hand corner of
	the web administration console (user interface only)
Show Install Link	It defines whether the [Install Software] link should appear at the top right hand
	corner of the web administration console (user interface only)

### 5.8 File Permissions

The [File Permissions] settings under the [Manage System] -> [Server Configuration] page defines whether OBS should make a copy of the file to the retention area before the file permission changes. When this option is set, all backup accounts will use more retention space but allows the users to restore the same file with various permissions. When this option is not set, the permission changes are updated to the backed up file directly.

### 5.9 Free Trial Setting

The [Enable Free Trial Registration] settings under the [Manage System] -> [Server Configuration] page defines various free trial settings available in OBS.

Trial users do not count towards the maximum number of users allowed within OBS by the software license and there can be unlimited number of trial users within OBS. However, each backup user can have a maximum backup quota of 100GB for a trial period of 30 days. After expiration of the trial period, the backup quota will reset to a maximum of 500MB automatically.

To allow backup accounts to be created from OBM upon installation of OBM (if no backup account can be found on the system), please enable the [Enable Free Trial Registration] option. If this checkbox is unchecked, the option to register for a trial account (see below) will not be available to users.

🖳 Startup Wizard	
	Language: English 🗸 🗸
Already a user?	
💿 User Logon	
O Trial Registration	
Ŭ,	
Cancel	< Previous Next >

The [Backup Quota] defines the maximum backup quota of trial backup accounts upon registration.

The [Add-on Modules] option defines whether you want to allow trial users to have different add-on modules.

The [Remove User] option defines whether you want to remove trial backup users for certain number of days after registration. For example, you can use this option to tell OBS to remove trial backup users from the system automatically after backup users have registered for 60 days.



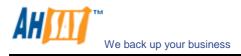
### 6 Software License

This chapter describes how you can use the [Manage System] -> [Software License] page (shown below) to manage software license of OBS.

nage System   <u>Manage Log</u>   <u>Manag</u>	e Us	er		Adminis	trator's Guide	Select La	ngu
rver Configuration   Routine Job   So			Replica				Log
icense Setting							
icensee Name	:	Backup-Pro	vider Com	pany			
icense Key	:	5pAy9-3p01	e-hZ7KE-k	(qAbt-lw			
lumber of users		Quota	Used	Available			
)BM	:	500	0	500			
ACB	:	500	0	500			
Iser Add-on Modules		Quota	Used	Available			
licrosoft Exchange Server	:	500	0	500			
licrosoft Exchange Mailbox	4	500	0	500			
licrosoft SQL Server		300	0	300			
)racle Database Server	:	500	0	500			
lySQL Database Server	:	Unlimited					_
otus Domino	:	500	0	500			_
otus Notes	:	300	0	300			
n-File Delta	:	500	0	500			_
olume Shadow Copy	:	500	0	500			_
erver Add-on Modules							
BS Replication Module	:	Enable					
etails							
Product Name	:	Offsite Bac	kup Serve	er, OEM Edition			
Product Version		5.2.1.0p					
Expiry Date		2007/06/3	0				
Free Upgrade Until	:	2007/10/3	1				
Max Quota	:	Unlimited					_
		Update	Reset				
	_					al intranet	

Кеу	Description
Licensee Name	Business name of the licensee
License Key	License Key to activate this software. Please enter [License Key] as printed on the [Software License Agreement] into the text field provided.
Number of users	The maximum number of OBM and ACB backup accounts allowed.
Add-on Modules	It shows whether different add-on modules are enabled. You need to have a new license key to enable these modules.
	<ul> <li>Quota – the total number licenses of a particular module available in total</li> <li>Used – the total number licenses of a particular module assigned to all users</li> <li>Available – the total number licenses of a particular module available for further</li> </ul>
Product Name	Name of the licensed product
Product Version	Version number of the licensed product
Expiry Date	The date when the current license key will expire. You will not be able to use OBS this date.
Free Upgrade Until	The last date you are allowed to upgrade to the latest OBS available. You will not be able to upgrade to software release after this date with your current license key. You will still be able to use existing running software with this license key.
Max Quota	The maximum quota for each backup user supported.





#### 6.1 Licensee Name and License Key

When you click the [Manage System] -> [Software License] link available at the top menu, the [Software License] panel will appear (see above). You can use the form available on this panel to activate the software.

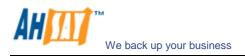
Please remember the following notes when you enter your licensee name and your license key:

- Both [Licensee Name] and [License Key] are case sensitive and they must be entered EXACTLY as stated in your software receipt. If possible, please use copy and paste shortcuts (CTRL-C and CTRL-V) to enter both the [Licensee Name] and [License Key] into the field provided to avoid typo error.
- If a proxy server is required to access the Internet from OBS, please setup the proxy setting. Access to the Internet is required because the license key must be activated by our license server before it is usable.
- One license key can only used on one machine once it has been activated. If you use the same license key to activate another copy of OBS on another server, you will get an "Internal Error 1011" message. You can still run this copy of OBS for another 7 days without any problems but it will stop working after this grace period. Please <u>contact us</u> to re-activate your license key if you run into this situation.

### 6.2 Automatic License Renewal

If you are using OBS under a monthly leasing plan, you will be given a license key that will run only for 30 days (expiry date in the next 30 days). Upon expiration, your license key will be renewed automatically. This means that even if you have a license key that will expire in no more than 30 days, the license key will be renewed automatically and no user intervention is required to make it happen.

If there is anything wrong with the license renewal process (e.g. our license server is down or the network connection is unavailable), expired license will have a grace period of 14 days to renew its license key. This means that OBS could still function with expired license for an extra 14 days before it shutdowns itself. Hopefully, a grace period of 14 days should be enough to resolve any problems arising from the automatic license renewal process.



# 7 Managing Routine Job

This chapter describes how you can use the [Manage System] -> [Routine Job] page (shown below) to manage a number of system routine jobs of OBS. When you click the [Manage System] -> [Routine Jobs] link available at the top menu, the [Routine Jobs] panel will appear. You can use the form available on this panel to define your preferences of how you want different system routine jobs to run.

anage System   <u>Manage Log</u> erver Configuration   Routine		.ogo
		_
User Report	Time to run	٦
Backup Report	:      Enable C Disable At the start of every hour	
Online Restore Report	:      Enable C Disable At the start of every hour	_
Setting Change Report	:      C Enable C Disable At the start of every hour	
Missed Backup Report	: ⓒ Enable C Disable At the start of every hour	
Inactive User Report	:      Enable C Disable Daily at 09 : 20 (HH:MM)	
Off-line Backup Reminder	: • Enable C Disable Daily at 09 - : 25 - (HH:MM)	
Backup Quota Reminder	:      Enable C Disable Daily at 09 : 05 (HH:MM)	
	when [Storage/Quota] > 90%	
Trial User Reminder	:      Enable C Disable Daily at 09 : 50 (HH:MM)	
	Remind user 25 🗾 days after registration	
System Report	Time to run	
Usage Report	:      Enable      Disable Daily at 09      : 55      (HH:MM)	
Error Report	:      Enable C Disable Daily at 09 💽 : 15 🔽 (HH:MM)	
System Job	Time to run	
Inactive User Removal	:      Enable C Disable Daily at 09 : 35 (HH:MM)	
Retention Policy Job	: • Enable C Disable Daily at 09 💌 : 40 💌 (HH:MM)	
Rebuild User Storage	: • Enable C Disable Every Sun 💌 at 09 💌 : 30 💌 (HH:MM)	
System Log Removal	:      Enable C Disable Daily at 09      : 45      (HH:MM)	
	Keep Logs for 365 🔽 Days	
Debug Log Removal	: C Enable C Disable Daily at 09 - : 10 - (HH:MM)	
	Keep Logs for 60 💌 Days	
	Update Reset	

Кеу	Description
Backup Report	Hourly job sending backup reports to users whose backup job have completed within the last hour.
Online Restore Report	Hourly job sending online file restoration reports to users who have performed and completed an online file restoration action within the last hour.
Setting Change Report	Hourly job sending setting change reports to users who have updated their backup setting within the last hour.
Missed Backup Report	Hourly job checking whether any scheduled backup job has been missed for all backup users and sending missed backup reports to users who have missed their backup jobs.
Inactive User Report	Daily job sending inactive user reports to users if their accounts have been inactive for more than 7 days.
Off-line Backup Reminder	Daily job sending off-line backup reminders to users who have set the off-line backup option and have not performed a backup for the required number of days.
Backup Quota Reminder	Daily job sending backup quota reminders to users whose storage quotas are above a certain percentage.
Trial User Reminder	Daily job sending trial user reminders to users whose trial account are about to expire.
Usage Report	Daily job sending system usage reports to system administrators.
Error Report	Daily job sending system error reports to system administrators.
Inactive User Removal	Daily job deleting all trial accounts that have been inactive for 60 days.
Retention Policy Job	Daily job removing obsolete files from the retention area according to each user's retention policy setting.
Rebuild User Storage	Weekly job rebuilding all users' storage information by walking through all users' backup files.
System Log removal	Daily job removing system logs older than this number of days from the system
Debug Log Removal	Daily job removing debugging logs older than this number of days from the



system.

### 7.1 Backup Report

The [User Report] -> [Backup Report] setting under the [Manage System] -> [Routine Job] page defines the setting of the [Backup Report] routine job. The role of the [Backup Report] routine job is to send backup reports to users who have finished one of their backup jobs within the last hour.

This job runs at the start of every hour. If you want your users to receive these reports, please select the [Enable] option. Otherwise, select the [Disable] option.

#### 7.2 Online Restore Report

The [User Report] -> [Online Restore Report] setting under the [Manage System] -> [Routine Job] page defines the setting of the [Online Restore Report] routine job. The role of the [Online Restore Report] routine job is to send online file restoration reports out to users who have performed and completed an online file restoration action within the last hour.

This job runs at the start of every hour. If you want your users to receive these reports, please select the [Enable] option. Otherwise, select the [Disable] option.

#### 7.3 Setting Change Report

The [User Report] -> [Setting Change Report] setting under the [Manage System] -> [Routine Job] page defines the setting of the [Setting Change Report] routine job. The role of the [Setting Change Report] routine job is to send reports out to users who have updated their profiles or backup sets within the last hour.

This job runs at the start of every hour. If you want your users to receive these reports, please select the [Enable] option. Otherwise, select the [Disable] option.

#### 7.4 Missed Backup Report

The [User Report] -> [Missed Backup Report] setting under the [Manage System] -> [Routine Job] page defines the setting of the [Missed Backup Report] routine job. The role of the [Missed Backup Report] routine job is to send reminder notice to users who have missed one of their scheduled backup jobs. OBS defines a scheduled backup job to be a missed backup job if there is no backup run 6 hours after a backup has been scheduled.

This job runs at the start of every hour. If you want your users to receive these reports, please select the [Enable] option. Otherwise, select the [Disable] option.

#### 7.5 Inactive User Report

The [User Report] -> [Inactive User Report] setting under the [Manage System] -> [Routine Job] page defines the setting of the [Inactive User Report] routine job. The role of the [Inactive User Report] routine job is to send a reminder notice to users who have been inactive on the system.

This job will run daily as defined by the [Daily at] setting. If you want your users to receive these reports, please select the [Enable] option. Otherwise, select the [Disable] option.

### 7.6 Off-line Backup Reminder

The [User Report] -> [Off-line Backup Reminder] setting under the [Manage System] -> [Routine Job] page defines the setting of the [Off-line Backup Reminder] routine job. The role of the [Off-line Backup Reminder] routine job is to send a reminder notice to users who have set the off-line backup option in their backup sets but failed to backup for a certain amount of time.

This job will run daily as defined by the [Daily at] setting. If you want your users to receive these reports, please select the [Enable] option. Otherwise, select the [Disable] option.



#### 7.7 Backup Quota Reminder

The [User Report] -> [Backup Quota Reminder] setting under the [Manage System] -> [Routine Job] page defines the setting of the [Backup Quota Reminder] routine job. The role of the [Backup Quota Reminder] routine job is to send a reminder notice to users whose storage quota usage has hit a pre-defined percentage.

This job will run daily as defined by the [Daily at] setting. If you want your users to receive these reports, please select the [Enable] option. Otherwise, select the [Disable] option. Please also set the pre-defined percentage of storage divide by quota that will trigger this reminder.

### 7.8 Trial User Reminder

The [User Report] -> [Trial User Reminder] setting under the [Manage System] -> [Routine Job] page defines the setting of the [Trial User Reminder] routine job. The role of the [Trial User Reminder] routine job is to send a reminder notice to users whose trial accounts are about to expire.

This job will run daily as defined by the [Daily at] setting. If you want your users to receive these reports, please select the [Enable] option. Otherwise, select the [Disable] option. Please also set the number of days after registration that the users should get this reminder.

### 7.9 Usage Report

The [System Report] -> [Usage Report] setting under the [Manage System] -> [Routine Job] page defines the setting of the [Usage Report] routine job. The role of the [Usage Report] routine job is to send usage report, which contains a statistics of all backup users activities, to the administrative contacts of OBS.

This job will run daily as defined by the [Daily at] setting. If you want the administrative contacts of OBS to receive the usage report, please select the [Enable] option. Otherwise, select the [Disable] option.

### 7.10 Error Report

The [System Report] -> [Error Report] setting under the [Manage System] -> [Routine Job] page defines the setting of the [Error Report] routine job. The role of the [Error Report] routine job is to send error report, which contains a full listing of all system and backup errors, to the administrative contacts of OBS.

This job will run daily as defined by the [Daily at] setting. If you want the administrative contacts of OBS to receive the error report, please select the [Enable] option. Otherwise, select the [Disable] option.

### 7.11 Inactive User Removal

The [System Job] -> [Inactive User Removal] setting under the [Manage System] -> [Routine Job] page defines the setting of the [Inactive User Removal] routine job. The role of the [Inactive User Removal] routine job is to remove inactive trial users (i.e. no logon or backup traffic from this user) from OBS as defined by the <u>Free Trial Setting</u>.

This job will run daily as defined by the [Daily at] setting. If you want this job to run, please select the [Enable] option. Otherwise, select the [Disable] option.

### 7.12 Retention Policy

The [System Job] -> [Retention Policy] setting under the [Manage System] -> [Routine Job] page defines the setting of the [Retention Policy] routine job. The role of the [Retention Policy] routine job is to delete files from the retention area for each user according to the retention policy of each backup set of each backup user.

This job will run daily as defined by the [Daily at] setting. If you want this job to run, please select the [Enable] option. Otherwise, select the [Disable] option.

The [Enable File Validation] option defines the setting of whether backup files will be validated for integrity while

running retention policy:

- > [Filesize & Checksum] check both file size and checksum number to validate file integrity
- [Filesize only] –check only the file size to validate file integrity. Checksum is not checked in this case to make validation run faster
- [Skip Validated File] Skip validating a backup file if it has been validated already by a previous validation job
- [Log Information Only] If a file fails to pass the validation check, a message will be logged in the [Manage Log] -> [System Log] log. In this case, this file will still be residing in the user directory as valid backup file, though it is likely that it can't be restored successfully
- [Move to retention dir] –If a file fails to pass the validation check, a message will be logged in the [Manage Log] -> [System Log] log and this file will be moved from the user directory ([User Home] \ [Login Name] \ files) to the retention directory ([User Home] \ [Login Name] \ errfiles). In this case, this backup file will be uploaded from the client's computer to the backup server next time when this user runs a backup job.

#### 7.13 Rebuild User Storage

The [System Job] -> [Rebuild User Storage] setting under the [Manage System] -> [Routine Job] page defines the setting of the [Rebuild User Storage] routine job. The role of the [Rebuild User Storage] routine job is to recalculate all users' storage information (e.g. data area file size/number, retention area file size/number) by traversing through all backup files for all users within the system.

This job is designed to run weekly and will run at the time defined by the [Every WEEKDAY at] setting. If you want this job to run, please select the [Enable] option. Otherwise, select the [Disable] option.

#### 7.14 System Log Removal

The [System Job] -> [System Log Removal] setting under the [Manage System] -> [Routine Job] page defines the setting of the [System Log Removal] routine job. The role of the [System Log Removal] routine job is to remove all system logs (i.e. all information under the System Home, e.g. system error logs or backup error logs) from OBS after the [Keep Logs for] number of days.

This job is designed to run daily and will run at the time defined by the [Daily at] setting. If you want this job to run, please select the [Enable] option. Otherwise, select the [Disable] option.

### 7.15 Debug Log Removal

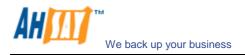
The [System Job] -> [Debug Log Removal] setting under the [Manage System] -> [Routine Job] page defines the setting of the [Debug Log Removal] routine job. The role of the [Debug Log Removal] routine job is to remove all debugging logs (e.g. access logs and web application context logs) from OBS after the [Keep Logs for] number of days.

This job is designed to run daily and will run at the time defined by the [Daily at] setting. If you want this job to run, please select the [Enable] option. Otherwise, select the [Disable] option.



# 8 Managing Replication

Please refer to the <u>Installation and Upgrade Guide for Ahsay Replication Server</u> for information on how to installation the Replication Server (RPS) to work with OBS. For further information, please refer to the <u>Ahsay</u> <u>Replication Server Administrator's Guide</u>.



# 9 Managing ACB Configuration

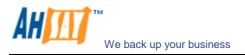
This chapter describes how you can use the [Manage System] -> [ACB Config] page (shown below) to manage the advertisements and default In-file delta setting for all ACB users.

ana	ge Syste	m   <u>Manage Log</u>   <u>Manage L</u>	<u>Jser</u>			Administrator's Guide   Select Lang	ua
erve	er Configu	ration   Routine Job   Softwa	are License   <u>R</u> e	eplication Cor	nfia   ACB Co	onfig Lo	opc
							_ [
☑	In-file d	elta settings for all ACB (	users				
Blog	ck Size	: Auto 💌					
Min	imum Siz	ze : 25	Mbytes				
In-f	file Delta	Type : Incremer	ntal 💌				
Uple	oad Full	File: : when M	aximum No. of	Delta greater	than 100	(-1 = Unlimited)	
				-		3	
		when D	elta Ratio great	er than :	50	Delta Size / File Size (%)	
Adv	ertisem	ents [ <u>Add]</u>				Show Advertisement Log	1
	vertisem Name	ents [ <u>Add]</u> Text	Start Date	Popularity	Hits	Show Advertisement Log Time Move	L
No.		Text	Start Date 2006-11-23	Popularity 0%	• <b>Hits</b> 0 / 0 / 0		
<b>No.</b> 1 2	Name	Text Show your own advertisement here		0%		Time Move	e
No. 1 2 3	Name Your ad Change URL Easy to	Text Show your own advertisement here Change URL of advertisements in OBS	2006-11-23	0% 0%	0/0/0	Time Move	e
No. 1 2 3	Name Your ad Change URL	Text Show your own advertisement here Change URL of advertisements in OBS Easy to use. Stable. Low	2006-11-23 2006-11-23 2006-11-23	0% 0%	0/0/0	Time     Move       6     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1	e
No. 1 2 3	Name Your ad Change URL Easy to	Text Show your own advertisement here Change URL of advertisements in OBS Easy to use. Stable. Low	2006-11-23 2006-11-23 2006-11-23 Total	0% 0% 0%	0/0/0 0/0/0 0/0/0	Time     Move       6     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1	e
No. 1 2 3	Name Your ad Change URL Easy to	Text Show your own advertisement here Change URL of advertisements in OBS Easy to use. Stable. Low	2006-11-23 2006-11-23 2006-11-23 Total	0% 0% 0% <b>100%</b>	0/0/0 0/0/0 0/0/0	Time     Move       6     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1	e
No. 1 2 3	Name Your ad Change URL Easy to	Text Show your own advertisement here Change URL of advertisements in OBS Easy to use. Stable. Low	2006-11-23 2006-11-23 2006-11-23 Total	0% 0% 0% <b>100%</b>	0/0/0 0/0/0 0/0/0	Time     Move       6     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1       7     1	e

Кеу	Description
In-file delta setting for all ACB users	Select this option to enable and use in-file delta technology for all ACB clients
Block Size	The in-file delta block size used to detect changes within a file. A smaller block size should produce a smaller delta file but requires more processing power. The default setting of [Auto] will choose the optimal block size for each file based on the file's original file size.
Minimum Size	The minimum size setting defines the smallest file size to apply the in-file delta.
In-file Delta Type	<ul> <li>The in-file delta type to use for calculating the delta file</li> <li>Incremental – this option uses the previous uploaded full or incremental file to calculate the delta. It produces the smallest delta for upload but requires the most time and processor power to restore.</li> <li>Differential – this option always uses the latest uploaded full file to calculate the delta. It produces a larger delta but allows for the fastest restore.</li> </ul>
Upload Full File	<ul> <li>The upload full file setting determines when the full file should be uploaded to the server instead of the delta. It depends on either of the following rules being true:</li> <li>Maximum No. of Delta – the total number of deltas uploaded since the last full file. The default setting is 100 deltas.</li> <li>Delta Ratio – the ratio of the Delta Size divided by the Full file size. The default setting is 50%.</li> </ul>
Advertisements	Click the [Add] link to add new advertisements

### 9.1 In-file Delta Settings for all ACB users

The [In-file delta settings for all ACB users] setting under the [Manage System] -> [ACB Config] page defines a global setting for all ACB clients. Select this option to enable In-file Delta Technology for ACB clients.



#### 9.2 Block Size

The [Block Size] setting defines the size of data block being used to detect changes between the last full backup file and the file being backed up. In general, the smaller the block size, the more likely a matched data block can be found, hence produces a smaller delta file but require more processing power to detect these changes. On the other hand, in-file delta backup running with a larger block size will run faster but this will generally produce a larger delta file.

In most case, the default setting [Auto] will choose the optimal block size for each file (depending on the size of the file) for you.

#### 9.3 Minimum Size

The [Minimum Size] setting defines the smallest file size a file must have before the use and application of in-file delta backup technology.

If the size of a file that is being backed up is smaller than the [Minimum File Size] setting, in-file delta backup technology won't be applied to this file and the whole file, instead of just the delta file, will be uploaded to the backup server. It is not necessary to perform in-file delta backup on small files because backing up the whole file doesn't take too long anyway. Backing up the whole file instead reduces the time required to restore a backup file.

#### 9.4 In-file Delta Type

The [In-file Delta Type] setting defines the way in-file delta files are handled. There are two different versions as follows:

#### Incremental in-file delta type

All delta files are generated with respect to changes made since the last incremental backup. This means that the last full backup file and ALL incremental delta backup files are required to restore the latest snapshot of a backup file.

The full backup file, its checksum file and all incremental delta files stored on the server are always stored in the data area. This means that these files are not affected by the setting of the retention policy and will always be kept on the backup server. It is done this way because all these files are required to get the latest snapshot of the backup file and they should not be removed from the backup server by the retention area cleanup routine.

#### Differential in-file delta type

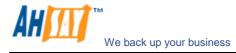
All delta files are generated with respect to changes made since the last full backup file (i.e. differential backup). This means that only the last full backup file and the last delta file are required to restore the latest snapshot of a backup file. This means that other intermediate delta files are only required if you want to restore other snapshots of a backup file.

Differential in-file delta backup has the benefits that a corrupted delta file would only make one particular version of a backup file non-recoverable and all other backups created by other delta files of the same file would still be intact.

The full backup file, its checksum file and the last delta file uploaded (if more than one delta files have been uploaded to the backup server) is always stored in the data area. This means that these files are not affected by the setting of the retention policy and will always be kept on the backup server. It is done this way because all these files are required to get the latest snapshot of the backup file and they should not be removed from the backup server by the retention area cleanup routine. All other intermediate delta files are stored in the retention area.

#### 9.5 Upload Full File

The [Upload Full File] setting defines when to upload a full file instead of a delta file.



#### No. of Delta

The [No. of delta] setting defines the maximum number of delta files from the same full backup file to be generated and backed up to the backup server before a full backup (the whole file) of this file is uploaded to the backup server instead.

For example, if you have created 100 delta files from the full backup file already and the [No. of delta] setting is set at 100, the next backup will upload a full backup file (the whole file) instead of just the delta file. However, if the [No. of delta] setting is unlimited, it will keep generating delta files and uploading these delta files to the backup server until the other delta setting condition (delta ratio exceeded) forces a full backup. This setting is here to make sure that there will always be a full backup file after a certain number of delta files have been generated.

#### <u>Delta Ratio</u>

The [Delta Ratio] setting is defined as the size of a delta file divided by the size of its full backup file (i.e. the percentage of changes detected between the last full backup file and the current file).

If the delta ratio calculated from the size of the generated delta file and the size of the full backup is greater than the [Delta Ratio] setting, the whole file, instead of just the delta file, will be backed up to the backup server. It is done this way because the difference between backing up the whole file and the delta file is not significant and it is better to upload the whole file instead.

The default setting of [Delta Ratio] is 50%. This means that if the changes detected within a file are more than 50%, the whole file, instead of the delta file will be backed up and uploaded to the backup server.

#### 9.6 Advertisements

The [Advertisements] setting defines the advertisements and related information that is displayed at the bottom of all ACB clients.

erve	er Configurat	ion   <u>Routine Job</u>   <u>Software License</u>   <u>Repl</u>	ication Config	ACB Config	1	Loc
٨d٧	ertisement	s [ <u>Add]</u>				Show Advertisement Log
No.	Name	Text	Start Date	Popularity	Hits	Time Move
1	Your ad	Show your own advertisement here	2006-11-23	0%	0/0/0	6 1 1 Target Remove
2	Change URL	Change URL of advertisements in OBS	2006-11-23	0%	0/0/0	6 2 2 Target Remove
3	Easy to use	Easy to use. Stable. Low Cost. Brandable.	2006-11-23	0%	0/0/0	6 3 Target Remove
			Total	100%	0/0/0	
			Update Re:	set		

Кеу	Description
Add	Click this link to add a new advert.
Show Advertisement Log	Click this link to view the advertisement log.
Name	The name of the advertisement. Click the link to edit this advert.
Text	The text to be displayed at the bottom of the ACB client.
Start Date	The date when this advert was created.
Popularity	Calculated value to indicate which advert is the most popular. The value is
	calculated as the percentage of [Hits for this advert] divided by [Total Hits].
Hits	The "Hits" counter indicates the number of times this advert has been clicked.
	These counters are only updated if the option "Enable Tracking" is set. The
	three values are [Hits within 1 day] / [Hits within the last 7 days] / [Hits within
	the last 30 days].
Time	The number of seconds to display the advert.
Move	The display sequence of the adverts.
Target	Click this link to test the advertisement's URL. This will open a browser and
	displays the URL web page.
Remove	Click this link to delete the advert.

#### Add New Advertisement

Click the [Add] link to add new advertisements. Enter the advert information into the form provided.

anage System   N	Ianage Log   Manage User Administrator's Guide   Select	Languag
	Routine Job   Software License   Replication Config   ACB Config	Logou
Add new advertis	;ement	i i
Name	:	
Image	Browse	
Text	:	
Text Animation	: Scroll left	-
Text Alignment	: Left 💌	
URL	: http://	
Seconds	: 10 💌	
	Update Cancel	

Кеу	Description
Name	The name of the advertisement.
Image	The full pathname of the image file to be displayed at the bottom of the ACB client. The image size should be $468 \times 60$ .
Text	The text to be displayed at the bottom of the ACB client.
Text Animation	Setting to define whether the text should scroll.
	Scroll Left – text scrolls from right to left.
	Scroll Right – text scrolls from left to right.
	None – do not scroll text.
Text Alignment	Setting to define the text alignment.
Ū.	Left – text is aligned left.
	Center – text is centered.
	Right – text is aligned right.
URL	The URL of the advert. If the user clicks the advert in ACB, a browser will open
	and displays this web page.
Enable tracking	When selected, every time the user clicks the advert in the ACB client, a "Hits"
, j	counter is incremented.
Seconds	The number of seconds to display the advert.



# 10 Managing User

This chapter describes how you can use all pages under the [Manage User] menu to manage the backup users within OBS.

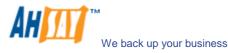
### 10.1 Create Backup User

When you click the [Manage User] -> [Add User] link available at the top menu, the [Add User] form will appear (see below). You can then add a backup user to the system by submitting this form to OBS.

🚳 Offsite Backup Serv	er Management Console - Microsoft Internet Explorer	<u>_   ×</u>
	nage Log   Manage User	Select Language
Add User   List User		<u>Logout</u>
User Setting		
Login Name	:	
Password	:	
Alias	:	
Timezone	: GMT+08:00 (HKT)	
Language	: English	
Backup Client	: OBM User 💌	
Advertise Group	: All 🔽 ( ACB User Only )	
Туре	: Paid User 💌	
Email	:	
Welcome email	: 🗹 Enable	
Backup Setting		
User Home	D:UserHome Where backup files for this user are to be stored on this server. Please use the Manage System -> Server Configuration page to add directory to the list above.	another
Backup Quota	: 50.0 • Mbytes • Gbytes	
Bandwidth	: Unlimited  Bits/Second	
Add-on Modules	<ul> <li>Microsoft Exchange Server</li> <li>Microsoft SQL Server</li> <li>Oracle Database Server</li> <li>MySQL Database Server</li> <li>Lotus Domino</li> <li>Lotus Notes</li> <li>In-File Delta</li> <li>Volume Shadow Copy</li> <li>Microsoft Exchange Mailbox</li> <li>(Max: 500)</li> </ul>	
	Add Reset	
🚰 Done		linharah
E Done		l intranet 🛛 🎢

A description of all fields above is provided in the following table.

Кеу	Description
Login Name	Login Name of the new backup user
Password	Password of the new backup user
Alias	Another name of the new backup user
Time zone	Time zone of the new backup user
Language	Preferred language for all email reports of the new backup user
Backup Client	Choose OBM client or ACB client
Advertise Group	For ACB clients only. Choose whether advertisements are displayed at the bottom of
	the ACB client
Account Type	Either [Trial] or [Paid] type. Trial accounts and paid users differ in the following ways:
	<ol> <li>Trial users can only have a maximum backup quota of 500MB after the trial period.</li> <li>Trial users subject to automatic removal as defined by the [Free Trial Registration] setting (though automatic removal can be disabled)</li> </ol>
	Other than the differences listed above, both trial and paid users are the same in all



	other areas.
Email	Email address of the new backup user
Welcome email	Define whether a welcome email should be sent to the new user email address
User Home	The top directory where the software stores backup files and all other information for the new account. If you want this user to be in another partition (or in another drive), please add another user home to OBS by using the [Manage System] -> [System Configuration] page.
	If you want to <u>setup your user home directories to a network drive</u> , please do refer to our FAQs section for more information.
Backup Quota	Backup Quota of the new account
Bandwidth	Bandwidth allowed for the new account
Add-on Modules	Whether to enable any of the add-on modules to the new backup user The [Microsoft Exchange Mailbox] text field defines the number of exchange mailboxes that's allowed to be backed up under this user account

### 10.2 List / Remove Backup User

When you click the [Manage User] -> [List User] link available at the top menu, the [List User] panel will appear. You can use the alphabet categories at the top of the user listing to limit the listing to show only those users whose login names starting with a certain alphabet. You can also use the [AII] function available to list all users within the system.

To remove a user from the system, just press the [Remove] link next the user you would like to remove.

Manage System   Manag	<u>ge Log</u>   Manag	je User						Select Langu
Add User   List User								Loc
Search by : 💿 Login	Name C Alia	s		Export Users'	Usage Statis	stics to CS	V   Broa	dcast Message
[ <u>A-B</u>   <u>C-D</u>   <u>E-F</u>	<u>G-H</u>   <u>I-</u> ]	<u>K-L</u>   <u>M-N</u>	<u>O-P</u>   <u>Q-R</u>   <u>S-T</u>	I <u>U-V</u> I <u>W-X</u> I	<u>Y-Z   O</u>	thers I	Trial	Paid   All ]
		Backup Client	t Login Name (Alias	) Registration [	)ate U	sed / Quo	ota (%)	
1 0°0° 🖾	₽♥₽₽	OBM	demo (abc)	2007-01-09 (To	oday)	0 / 50M (	(0%)	[Remove]
1								
Done							Lo	cal intranet
J							Lo	cal intranet
	Descri							
J	Define		Iphabetically se	arch should b	e applie	ed to [L		
	Define [Alias]	whether a	. ,			ed to [L		
	Define [Alias]	whether a	Iphabetically se I-on modules fo			ed to [L		
rch By	Define [Alias] Indicate	whether a	. ,	r this account		d to [L		
rch By r Add-on modules kup Client	Define [Alias] Indicate	whether a es the add es the bac	I-on modules fo	r this account	: :		.ogin N	
rch By r Add-on modules kup Client n Name	Define [Alias] Indicate Indicate Login N	whether a es the add es the bac ame of th	l-on modules fo kup client for th is account. Clicl	r this account	: :	_	.ogin N	
rch By r Add-on modules kup Client n Name	Define [Alias] Indicate Login N Alias of	whether a es the add es the bac ame of th this accou	I-on modules fo kup client for th is account. Click	r this account his account k the link to s	: :	_	.ogin N	
rch By r Add-on modules kup Client n Name s istration Date	Define [Alias] Indicate Login N Alias of Date w	whether a es the add es the bac ame of th this account hen this account	I-on modules fo kup client for th is account. Clicl unt ccount was crea	r this account his account < the link to s hted	ee acco	unt det	ogin N tails	Name] or
rch By r Add-on modules kup Client n Name	Define [Alias] Indicate Login N Alias of Date wh The use	whether a es the add es the bac ame of th this account hen this account	I-on modules fo kup client for th is account. Clicl unt ccount was created ad quota (and th	r this account his account < the link to s hted	ee acco	unt det	ogin N tails	Name] or



Broadcast Message

Use this option if you want to broadcast messages to backup users

#### Broadcast messages to backup users 10.3

After you press the [Broadcast Message] link on the top right hand corner of the [Manage User] -> [List User] panel, you will be brought to the [Broadcast Message] page. You can use this page to broadcast messages to different types of backup users.

🎒 Offsite Backup	p Server Management Console - Microsoft Internet Explorer
Manage System	Manage Log   Manage User Select Language
Add User   List	<u>Loqout</u>
	A
Broadcast M	essage
From	: "Backup Manager" <report@backup-provider.com></report@backup-provider.com>
То	: ⊙ All C Paid C Trial
	O OBM User O ACB User O Admin ("Backup Manager" <report@backup-provider.com>)</report@backup-provider.com>
Cubicat	
Subject Message	
Attachment	© Text ○ Html
Attachment	: Browse
	Send Reset
ど Done	Second Intranet
	Description
	Sender of this message
	<ul> <li>Broadcast message to the following user types:</li> <li>All – all backup users</li> <li>Paid – backup users of [Paid] user type</li> <li>Trial – backup users of [Trial] user type</li> <li>OBM User – backup users of OBM client type</li> <li>ACB User – backup users of ACB client type</li> </ul>
	Admin – backup administrator, i.e. email address defined on the [Manage System -> [Server Configuration] -> [Administrator Contact] list (useful if you want to te the broadcast feature before sending the message out to all users)
ct	Subject of this message
age	Content of this message
Html	The content type of this message, i.e. whether content should be considered as plain text or HTML.
hment	A file to be broadcasted with this message

#### 10.4 **Managing User Profile**

After you press the user name link on the [Manage User] -> [List User] panel, you will be brought to the [User Profile] panel for this particular user. You can use this panel to update the profile of this user.



Manage System   Manage Log   Manage User [demo]       Select Language         Add User   List User   User Profile   Backup Set   File Explorer   Report   Statistics       Language         User Summary       Quota       Data Area**       Total Upload*       Total Restore*         SOM       0 / 0 [ 0%] [ 0 ]       0 / 0 [ 0%] [ 0 ]       0 [ 0 ]       0 [ 0 ]         ** Unit : Compressed Size [Total No. of Files]       **       Tite Validation Option >         ** Unit : Compressed Size / Uncompressed Size [Ratio] [Total No. of Files]       **         User Profile : demo       Home Directory : D:\UserHome\demo         Alias       : [abc         Password       : [kAFQmDzST7DWij99KOF/cg==         (Clear Text)       Quota         Quota       : 50.0       C kbytes I Microsoft SQL Server         W       Oracle Database Server I Microsoft SQL Server         W       Oracle Database Server I Microsoft SQL Server         W       Oracle Database Server I Microsoft SQL Server         W       In-File Delta I Volume Shadow Copy         Microsoft Exchange Mailbox I (Max: 500)       Max: 500)         Language       : English         Type       : English
User Summary         Quota       Data Area**       Retention Area**       Total Upload*       Total Restore*         50M       0 / 0 [ 0%] [ 0 ]       0 / 0 [ 0%] [ 0 ]       0 [ 0 ]       0 [ 0 ]         File Validation Option >         ** Unit : Compressed Size [Total No. of Files]         User Profile : demo       Home Directory : D: \UserHome \demo         Alias       : [abc         Password       : [kAFQmDzST7DWij99KOF/cg==       (Hashed)         New       (Clear Text)         Quota       : 50.0       C kbytes © Mbytes C Gbytes         Bandwidth       : Unlimited ♥ Bits/Second         Backup Client       : OBM User ♥         Type       : Paid User ♥         Add-on Modules       Ø Microsoft Exchange Server Ø Microsoft SQL Server         Ø Oracle Database Server Ø MySQL Database Server       Ø Lotus Notes         Ø In-File Delta Ø Volume Shadow Copy       Microsoft Exchange Mailbox 0         Microsoft Exchange Mailbox 0       (Max: 500)         Language       : English       ♥
Quota       Data Area**       Retention Area**       Total Upload*       Total Restore*         50M       0 / 0 [0%] [0]       0 / 0 [0%] [0]       0 [0]       0 [0]         File Validation Option 3         ** Unit : Compressed Size [Total No. of Files]         ** Unit : Compressed Size [Total No. of Files]         User Profile : demo       Home Directory : D:\UserHome\demo         Alias       : [abc
Quota       Data Area**       Retention Area**       Total Upload*       Total Restore*         50M       0 / 0 [0%] [0]       0 / 0 [0%] [0]       0 [0]       0 [0]         File Validation Option 3         ** Unit : Compressed Size [Total No. of Files]         ** Unit : Compressed Size [Total No. of Files]         User Profile : demo       Home Directory : D:\UserHome\demo         Alias       : [abc
File Validation Option *         ** Unit : Compressed Size [Total No. of Files]         *** Unit : Compressed Size / Uncompressed Size [Ratio] [Total No. of Files]         User Profile : demo Home Directory : D:\UserHome\demo         Alias       :       abc         Password       :       [KAFQmDzST7DWij99KOF/cg==       (Hashed)         New       (Clear Text)         Quota       :       50.0       C       kbytes       C       Gbytes         Bandwidth       :       Unlimited       Bits/Second       Backup Client       :       OBM User       Microsoft Exchange Server       Microsoft SQL Server         ✓       Oracle Database Server       Microsoft SQL Server       Microsoft Lotus Notes       In-File Delta       Volume Shadow Copy         Microsoft Exchange Mailbox       0       (Max: 500)       Language       English       Image
<ul> <li>* Unit : Compressed Size [Total No. of Files]</li> <li>** Unit : Compressed Size / Uncompressed Size [Ratio] [Total No. of Files]</li> <li>User Profile : demo Home Directory : D:\UserHome\demo</li> <li>Alias : abc</li> <li>Password : kAFQmDzST7DWij99KOF/cg== (Hashed)</li></ul>
User Profile : demo       Home Directory : D:\UserHome\demo         Alias       : abc         Password       : [kAFQmDzST7DWij99KOF/cg== (Hashed)         New       (Clear Text)         Quota       : 50.0       C kbytes          Bandwidth       : Unlimited ▼       Bits/Second         Backup Client       : OBM User ▼         Type       : Paid User ▼         Add-on Modules       : Microsoft Exchange Server I Microsoft SQL Server         Image       : In-File Delta I Volume Shadow Copy         Microsoft Exchange Mailbox       0         (Max: 500)       : English
Alias       : abc         Password       : KAFQmDzST7DWlj99KOF/cg== (Hashed)         New       (Clear Text)         Quota       : 50.0       C kbytes       Mbytes       Gbytes         Bandwidth       : Unlimited       Bits/Second         Backup Client       : OBM User       Type       : Paid User         Type       : Paid User       Microsoft Exchange Server       Microsoft SQL Server         ✓       Oracle Database Server       MySQL Database Server       ✓ Lotus Domino         ✓       In-File Delta       Volume Shadow Copy       Microsoft Exchange Mailbox       0 (Max: 500)         Language       : English
Password       :       kAFQmDzST7DWlj99KOF/cg==       (Hashed)         New       (Clear Text)         Quota       :       50.0       © kbytes       © Gbytes         Bandwidth       :       Unlimited       Bits/Second         Backup Client       :       OBM User       Type         Type       :       Paid User       Microsoft Exchange Server       Microsoft SQL Server         Add-on Modules       :       Microsoft Exchange Server       MySQL Database Server         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       .       .       .         .       .       <
Image: Reference of the second of the se
New       (Clear Text)         Quota       : 50.0       kbytes       Gbytes         Bandwidth       : Unlimited       Bits/Second         Backup Client       : OBM User          Type       : Paid User          Add-on Modules       : Microsoft Exchange Server       Microsoft SQL Server         · Oracle Database Server       MySQL Database Server         · Lotus Domino       · Lotus Notes         · In-File Delta       · Volume Shadow Copy         · Microsoft Exchange Mailbox       0         · Microsoft Exchange Mailbox       (Max: 500)
Quota       : 50.0       C kbytes       Mbytes       G bytes         Bandwidth       : Unlimited       Bits/Second         Backup Client       : OBM User          Type       : Paid User          Add-on Modules       : Microsoft Exchange Server       Microsoft SQL Server         · Oracle Database Server       MySQL Database Server         · Lotus Domino       · Lotus Notes         · In-File Delta       · Volume Shadow Copy         · Microsoft Exchange Mailbox       0         · Language       : English
Bandwidth       :       Unlimited ▼       Bits/Second         Backup Client       :       OBM User ▼         Type       :       Paid User ▼         Add-on Modules       :       Microsoft Exchange Server       Microsoft SQL Server         ✓       Oracle Database Server       MySQL Database Server         ✓       Lotus Domino       ✓       Lotus Notes         ✓       In-File Delta       ✓       Volume Shadow Copy         Microsoft Exchange Mailbox       0       (Max: 500)         Language       :       English       ▼
Backup Client       : OBM User ▼         Type       : Paid User ▼         Add-on Modules       : Microsoft Exchange Server I Microsoft SQL Server         Image:       : Microsoft Exchange Server I Microsoft SQL Server         Image:       : Microsoft Exchange Server I Microsoft SQL Server         Image:       : Microsoft Exchange Server I Microsoft SQL Server         Image:       : Microsoft Exchange Server I Microsoft SQL Server         Image:       : Microsoft Exchange Mailbox I (Max: 500)         Language       : English
Type       :       Paid User ▼         Add-on Modules       :       Microsoft Exchange Server       Microsoft SQL Server         ✓       Oracle Database Server       ✓       MySQL Database Server         ✓       Lotus Domino       ✓       Lotus Notes         ✓       In-File Delta       ✓       Volume Shadow Copy         ✓       Microsoft Exchange Mailbox       0       (Max: 500)         Language       :       English       ▼
Add-on Modules : Microsoft Exchange Server Microsoft SQL Server Oracle Database Server MySQL Database Server Lotus Domino Lotus Notes In-File Delta Volume Shadow Copy Microsoft Exchange Mailbox 0 (Max: 500) Language : English
✓ Oracle Database Server       ✓ MySQL Database Server         ✓ Lotus Domino       ✓ Lotus Notes         ✓ In-File Delta       ✓ Volume Shadow Copy         Microsoft Exchange Mailbox       0         (Max: 500)
✓ In-File Delta       ✓ Volume Shadow Copy         ✓ Microsoft Exchange Mailbox       0       (Max: 500)         Language       English
Microsoft Exchange Mailbox       0       (Max: 500)         Language       English
Language : English
TIME201C TGMT+08:00 (HKT) ▼
Contract
I. Name Jabe
Email Jabc@company.com
Email
Notes :
Update Reset
Done

This panel is no different to the [User Profile] panel that users will see when they logon to the user area except that you can now update the [Type], [Quota] and [Add-on Module] (shown in RED) entries on this page.

Click the [File Validation Option] link to rebuild this user's storage information.

You can reset a user password by applying a new password to [User Profile] -> [Password] -> [New] entry and press the [Update] button. Before the user logon to OBS using OBM, both old and new passwords are valid. It is designed this way because a copy of the user's password is saved on the client machine for the backup scheduler to use to run scheduled backups. It is important to allow the old password to be valid until the new password is saved the on client machine when user logon to OBM with the new password.

The [Microsoft Exchange Mailbox] text field defines the number of exchange mailboxes allow to be backed up under this backup account. The [Max] message indicates the maximum number remaining licenses available.



The [Bandwidth] option allows you to set a maximum network usage for all running backup sets of this particular backup account. All backup sets will share the same bandwidth defined by this setting. If you have set the bandwidth to be 128kbits/second and there are two backup sets running at the same time, each backup set will share roughly half of the bandwidth assigned, i.e. 64kbits/seconds.

The [Notes] field allows you to attach some other information, e.g. telephone number or billing address, with this backup account.

## 10.5 Managing Backup Set

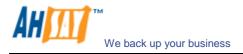
After pressing the [Detail] button next to a user on the [Manage User] -> [List User] panel, a [Backup Set] link is now available in the extended user menu. You can review the backup sets setting of this particular user by clicking the [Backup Set] link.

To update the backup set setting of this particular user, just make the required changes on the form below and press the [Update] button.

Dffsite Backup Server Management Console - Microsoft Internet Explorer		_ 🗆 🗙
<u> Manage System</u>   <u>Manage Log</u>   Manage User [ <b>demo</b> ]	Administrator's Guide   Se	lect Language
Add User   List User   User Profile   Backup Set   File Explorer   Report	t Statistics	Logout
Backup Set: FileBackupSet-1 Add Remove		
[Help] Name		
FileBackupSet-1		
[Help] Type		
● File ○ Microsoft SQL Server ○ Microsoft Exchange Server	er	
C Oracle Database Server C MySQL Database Server		
C Lotus Domino C Lotus Notes		
[Help] Backup Source		
Backup the following files/directories:		
1. CICONFIG.SYS	[Remove]	
2. C:\drvnet.img	[Remove]	
3. Ctdell.img	[Remove]	
4.	[Add]	
Exclude the following files/directories:		
1.	[Add]	
[Help] Backup Schedule [Add]		
No schedules defined		•
2		1

Setting Online Restore IP Restriction

At the bottom of the [Backup Set] panel, you should be able to find the [Online Restore IP Restriction] section. If you would like to restrict online file restore of this backup set to only a subset of trusted IP addresses, you just need to enter the trusted IP addresses here. Once you have entered some IP addresses into the IP restriction list, online file restore request originating from IP addresses not listed on this list will no longer be able to restore any files from this backup set. (You can use the IP range of 127.0.0.1 – 127.0.0.1 to disable online restore completely)



Offsite Backup Server Managemer	nt Console - Microsoft Internet Explorer	
lanage System   <u>Manage Log</u>   Mai	nage User [ <mark>demo</mark> ]	Select Language
<u> Add User   List User   User Profile  </u>	Backup Set   File Explorer   Report   Statistics	<u>Logout</u>
[Help] Pre-backup command		
1.Name	[ <u>Add</u> ]	
Command		
Working Directory		
[Help] Post-backup command		
1 . Name	[ <u>Add</u> ]	
Command		
Working Directory		
[Help] Online Restore IP restri	iction	
1 . From	To [Add]	
No IP restrictions if no	IP addresses are provided.	
	Update Reset	
Key :		
Name	Name of the backup set	
Backup Source	Files/Directories that are to be included into from the backup set	or excluded
Backup Schedule	Schedules when backup should be performe automatically	d
Done		cal intranet

### 10.6 Browsing User Backup File

You can click the [File Explorer] link available at the extended [Manage User] menu to invoke the [File Explorer] panel. You can use this panel to browse and restore user's backup files. This panel is the same [File Explorer] panel that users would see when they click the [File Explorer] link after they have logged on to the system. Please refer to the User's Guide for information on how to restore user's backup files.

te Backup Set	Size	Last Modified	Zipped [Ratio]
FileBackupSet-1			
MSSQLBackupSet-1			
te			
	te Backup Set FileBackupSet-1 MSSOLBackupSet-1 te 1. This shows all backup sets a 2. To restore backup files, plea		Image: Size       Last Modified         Size       Last Modified         FileBackupSet-1

## 10.7 Reviewing User Backup Report

You can click the [Report] link available at the extended [Manage User] menu to invoke the [Report] panel. You can use this panel to review users' backup activities. This panel is the same [Report] panel that users would see when they click the [Report] link after they have logged on to the system. Please refer to the User's Guide for information on how to review users' backup activities.

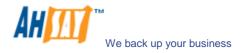


Backup Job Statistics         User Account Statistics           New Files*         0 [ 0 bytes ]         Data Area         2.2M bytes           Updated Files*         0 [ 0 bytes ]         Retention Area         1.4M bytes
Updated Files* 0 [ 0 bytes ] Retention Area 1.4M bytes
Deleted Files* 0 [ 0 bytes ] Total Upload 3.6M bytes ]
* Unit = Number of files [ Total file size ] Backup Quota 500M bytes Backup Quota 500M bytes
Remaining Quota Horiti Dico

### **10.8 Reviewing User Storage Statistic**

You can click the [Statistics] link available at the extended [Manage User] menu to invoke the [Statistics] panel. You can use this panel to review users' storage statistics. This panel is the same [Statistics] panel that users would see when they click the [Statistics] link after they have logged on to the system. Please refer to the User's Guide for information on how to review users' storage statistics.

2005-06-01         9.7M [36]         81.6           2005-06-02         9.7M [30]         768           2005-06-03         9.7M [30]         768           2005-06-04         11.9M [35]         768           2005-06-05         209.7M [30]         1,00           2005-06-06         209.7M [1394]         1,00           2005-06-06         209.7M [1394]         868	ention Area* .5M [ 3076 ] .5M [ 3081 ] .5M [ 3081 ] .5M [ 3084 ] .5M [ 4616 ] .3M [ 4518 ]	Uploaded Size* 0[0] 0[0] 0[0] 2.2M[8] 436.2M[2891]	Total Storage* 826.2M [ 3112 ] 778.2M [ 3111 ] 778.2M [ 3111 ] 780.4M [ 3119 ]
2005-06-02 9.7M [30] 768 2005-06-03 9.7M [30] 768 2005-06-04 11.9M [35] 768 2005-06-05 209.7M [1394] 1,000 2005-06-06 209.7M [1394] 868	.5M [ 3081 ] .5M [ 3081 ] .5M [ 3084 ] 6.8M [ 4616 ]	0[0] 0[0] 2.2M[8]	778.2M [ 3111 ] 778.2M [ 3111 ]
2005-06-03 9.7M[30] 768 2005-06-04 11.9M[35] 768 2005-06-05 209.7M[1394] 1,00 2005-06-06 209.7M[1394] 868	.5M [ 3081 ] .5M [ 3084 ] 6.8M [ 4616 ]	0[0] 2.2M[8]	778.2M [ 3111 ]
2005-06-04         11.9M [ 35 ]         768           2005-06-05         209.7M [ 1394 ]         1,00           2005-06-06         209.7M [ 1394 ]         868	.5M [ 3084 ] 5.8M [ 4616 ]	2.2M[8]	
2005-06-05 209.7M [ 1394 ] 1,00 2005-06-06 209.7M [ 1394 ] 868	6.8M [ 4616 ]		780.4M [ 3119 ]
2005-06-06 209.7M [ 1394 ] 868		424 2M [ 2001 ]	
	OM [ 4510 ]		1.19G [ 6010 ]
2005-06-07 209.7M [ 1394 ] 868		0[0]	1.05G [ 5912 ]
	.3M [ 4518 ]	0[0]	1.05G [ 5912 ]
	.3M [ 4518 ]	0[0]	1.05G [ 5912 ]
	D.2M [ 5289 ]	68.9M [ 914 ]	1.07G [ 6825 ]
	.2M [ 5288 ]	0[0]	973.9M [ 6824 ]
	.2M [ 5288 ]	0[0]	973.9M [ 6824 ]
	.2M [ 5288 ]	0[0]	973.9M [ 6824 ]
2005-06-13 98.6M [ 1536 ] 875	.2M [ 5288 ]	0[0]	973.9M [ 6824 ]
Average 105.6M [ 1029 ] 864.	2M [ 4379 ]	39M [ 293 ]	969.8M [ 5408 ]
Unit : Compressed Size [Total No. of Files] Key: Data Area Total backup data store:	d in the data ar	ea	



# 11 AutoUpdate

This chapter describes how you can use the AutoUpdate feature to deliver update of OBM to all running instances of OBM automatically.

#### 11.1 How it works

AutoUpdate works in the following sequences:

- i. Backup scheduler running on the client machine will download the index file (%INSTALL\_DIR%\webapps\obs\liveUpdate\index.xml) which contains the information of the latest client software available from this backup server
- ii. If the backup scheduler finds out that OBS contains a patch for OBM which is more recent than the one running on its own machine, it will download and install the patch from OBS automatically (%INSTALL\_DIR%\webapps\obs\liveUpdate\obm???.zip)
- iii. Scheduled backup now run with the latest version of OBM

As you can see from the steps above, AutoUpdate relies on backup scheduler to function properly. No new updates will be delivered to a machine running OBM if backup scheduler is not enabled or no scheduled backup has been run since a new update has been installed on OBS.

### 11.2 Using AutoUpdate

When you install an updated version of OBS on your backup server, a new version of the AutoUpdate module for OBM is already bundled with the updated version of OBS. This means that a new version of OBM will be delivered to all your client machines through AutoUpdate when you install an updated version of OBS on your server.

#### 11.3 Customizing AutoUpdate

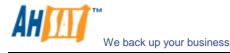
If you want to customize the AutoUpdate patch file that will be delivered to your existing client installations (i.e. sending your own patch file to your client), please do this:

- i. Find the "%INSTALL\_DIR%\webapps\obs\liveUpdate\obm????.zip" file on the running OBS
- ii. Expand obm????..zip to a directory
- iii. Replace all \*.properties files with your customized version (these files can be generated from "%INSTALL\_DIR%\properties.xls" easily)
- iv. Replace all \*.gif files with your customized version

The following is some common files that you are likely to customize:

- a. OBMLogo.gif This is the image file used as the Windows icon for OBM
- b. aboutBG.gif This is the image file used in the [View] -> [About] dialog box

	×
) Manager	
XEXEX	ē
	p Manager



v. Replace all \*.ico files with your customized version

The animation produced when backup is running, i.e. the "running arrow", is made up by showing icon1.ico, icon2.ico, icon3.ico and icon4.ico in sequence. You can change the animation by replacing these files by your own files (in fact, you can use more than 4 ICO files for your animation. Just make sure they are named in consecutive sequence as you want the images to be rotated).

vi. Zip all files back to obm????.zip (make sure all files are under the "bin" directory within the zip archive as shown below)

🗿 WinZip - obm!	5100.zip					×
jile <u>A</u> ctions <u>V</u> iew	Jobs Options Help					
😒 🌒 🍕 🔇	😢 🖗 🖻 🖼 🥕 🔅					
Address binl			~	D 🗊	• 🗉 🍯	5
oheis	Name	Modified 🔺	Size	Ratio	Packed	^
] [obm5100.zip]	🔊 unicows.dll	7/12/2004 10:11	258,352	57%	112,242	
🗀 bin	III DominoRecover.exe	24/3/2005 13:02	68,096	54%	31,592	
$\smile$	💷 Uninstall.bat	24/3/2005 13:02	22	0%	22	
	💷 SetWritable.exe	31/3/2005 15:44	36,864	58%	15,454	
	💷 install.bat	23/4/2005 12:40	19	0%	19	
	💷 RunBackupSet.bat	11/5/2005 16:23	1,234	59%	511	
	💷 Remove-Scheduler.bat	20/7/2005 10:01	19	0%	19	
	💷 Install-Scheduler.bat	20/7/2005 10:01	19	0%	19	
	🔊 StopScheduler.sh	3/8/2005 15:19	174	22%	136	
	💷 Run-Scheduler.bat	17/8/2005 17:58	142	27%	103	
	💷 Decrypt.bat	15/9/2005 15:26	1,722	65%	608	
	III Restore.bat	15/9/2005 15:28	1,670	65%	591	
	💷 SeedLoad.bat	15/9/2005 15:29	1,474	61%	578	
	🔊 LotusBM.dll	22/12/2005 11:17	81,920	53%	38,222	
	🔊 LotusJNI.dll	22/12/2005 11:24	61,440	58%	25,842	
	RegisterVSS.bat	24/1/2006 15:14	776	55%	351	
	💷 ListBackupSet.bat	3/3/2006 14:35	670	54%	311	
	🛄 ListBackupJob.bat	3/3/2006 14:35	1,017	58%	429	
	III RunOBM.bat	7/4/2006 11:07	707	50%	350	
	Decrypt.sh	10/4/2006 11:33	2,106	66%	715	
	ListBackupJob.sh	10/4/2006 11:33	534	44%	297	
	T int Daskun Cat ah	10/4/2006 11-22	525	16.0%	207	~
older: bin		Total 86 files, 4,460KB			00	) .:

vii. Finish

## 11.4 Forcing an extra AutoUpdate

If you want to customize the AutoUpdate patch file that will be delivered to your existing client installations (i.e. sending your own patch file to your client), please do this:

- i. Find the "%INSTALL\_DIR%\webapps\obs\liveUpdate\index.xml" file on OBS
- ii. Modify the line

<Update version="x.x.x.x" url="/obs/liveUpdate/obm????.zip" crc="-1" last-modified="0" size="-1" />

to

<Update version="x.x.x.xa" url="/obs/liveUpdate/obm????a.zip" crc="-1" last-modified="0" size="-1" />

Please note that there is an "a" character appended to both the version and url attributes.

- iii. Make change to the AutoUpgrade file, [obm????.zip], as required and rename it to [obm????a.zip]
- iv. Backup scheduler on the client machine will consider version "x.x.x.xa" to be a more recent release of OBM and will download the AutoUpgrade file, /obs/liveUpdate/obm????a.zip, before starting the next scheduled backup.

If you need to force another extra AutoUpdate again, just redo all previous steps using the letter "b" instead of the letter "a". The new AutoUpdate file /obs/liveUpdate/obm????b.zip, in this case, will be delivered to the client machine automatically before the next scheduled backup starts.



# **12** Backup / Restore files using off-line media

Backing up large amount of files (e.g. 300GB) online through the Internet is a very lengthy task. It is sometimes necessary to ship the first full backup through offline media (e.g. removable USB hard disk) to the backup server. Once the first full backup is loaded onto the backup server through offline media, all subsequent backups will be able to run and complete successfully in a timely manner because it is only necessary to upload new/updated files to the backup server.

Restoring large amount of files (e.g. 300GB) online through the Internet is also a very lengthy process. It is also important to be able to allow users to restore their backup files through offline media to reduce the time required to restore large amount of files.

This chapter describes the steps required to import/export backup files to/from OBS.

## 12.1 Seed loading backup files (Import)

A backup user can use the [Seed Load Utility] to transport its first full backup to an offsite backup server without having to upload a large volume of data through the Internet (Please refer to the User's Guide for more information). When the seed load files are transported to the backup server (e.g. using removable hard disk), please follow the instructions below to install them into the required user account:

i. Locate the home directory of the backup user

A backup user's home directory is a directory named the login name of the backup user under one of the OBS's [User Homes] directories. [User Homes] is a system-wide setting which can be accessed under the [Manage System] menu after logging onto the web system management console.

For example:

The default [Users Homes] directory is "C:\Program Files\Ahsay Offsite Backup Server\user". If the login name of the backup account is "john", the home directory of user "john" should be "C:\Program Files\Ahsay Offsite Backup Server\user\john"

ii. Copy all seed load files to the home directory

Find the "files" directory from the seed load files, and copy the "files" directory to the backup user's home directory.

In this example, you should copy the "files" directory to "C:\Program Files\Ahsay Offsite Backup Server\user\john"

If you are running OBS on Linux under a non-root user (e.g. obs), please make sure that the "files" directory and all its contents are owned and writable by the user running OBS (e.g. obs).

iii. Check if all files are installed correctly

Logon to the web interface of OBS with the backup user account ("john" in this example) and click the [File Explorer] link available at the top of the menu. Check if you can see all seed load files correctly installed.

iv. Total number of files and total file size imported into the data area through seed loading is not visible in the profile of this backup user (i.e. The [User Profile] page still reports no files in the data area). You need to run the <u>Rebuild User Storage</u> job by setting the scheduled run time of this routine job to a more recent time to rebuild the user storage information for this user.

If you need to perform another import (seed loading) when there are backup files on the backup server already, please remove all existing backup files from the backup server by removing the backup set ID directory (i.e. a numerically named directory under the "files" directory under a user directory) before copying all new seed loading files into the system. If you have more than one backup set ID directory under the "files" directory, please take a look at [User Home Directory] \ db \ Profile.xml to find out the correct backup set ID for the required backup set.



#### 12.2 Saving backup files to off-line media (Export)

If you want to save a copy of all backup files under a backup user account to an offline media, please do the following:

i. Locate the home directory of the backup user

A backup user's home directory is a directory named the login name of the backup user under one of the OBS's [User Homes] directories. [User Homes] is a system-wide setting which can be accessed under the [Manage System] menu after logging onto the web system management console.

For example:

The default [Users Homes] directory is "C:\Program Files\Ahsay Offsite Backup Server\user". If the login name of the backup account is "john", the home directory of user "john" should be "C:\Program Files\Ahsay Offsite Backup Server\user\john"

- ii. Copy the complete home directory of this backup user to an offline media
- iii. Once the offline media is shipped to the user, the user can then use the [Decrypt File Wizard] available in OBM to decrypt and restore the backup files available in the offline backup back to its original format



# 13 Secure Socket Layer (SSL) Configuration

This chapter describes how you can use the Management Console to configure various settings of OBS.

#### 13.1 Installing a trusted SSL certificate

Default installation of OBS enables SSL (Secure Socket Layer) support using a dummy certificate. For your own security, you are advised to replace the pre-installed dummy SSL certificate with a secure SSL certificate from a trusted CA (Certificate Authority). To replace the non-secure dummy SSL certificate with a secure SSL certificate, please do the following:

i. Identify the location of the keystore file

You need to store your SSL certificate in a keystore file. The default location of the keystore file is %INSTALL\_DIR%\conf\keystore.

ii. Delete dummy certificate from keystore

You can delete the dummy SSL certificate from the keystore by running:

%INSTALL\_DIR%\java\bin\keytool -delete -alias tomcat -keystore %INSTALL\_DIR%\conf\keystore

You will be prompted for the keystore password. The default password is "changeit".

Platform	Example
Windows	C:\Program Files\Ahsay Offsite Backup Server\conf> "C:\Program Files\Ahsay Offsite Backup Server\java\bin\"keytool -delete -alias tomcat -keystore keystore
Linux	[root]# \$OBS_HOME/java/bin/keytool -delete -alias tomcat -keystore \$OBM_HOME/conf/keystore
Mac OS X	[root]# keytool -delete -alias tomcat -keystore /Applications/OBS/conf/keystore

iii. Generate RSA key pair

A SSL certificate contains a RSA key pair. You can generate a RSA key pair by running:

%INSTALL\_DIR%\java\bin\keytool -genkey -alias tomcat -keyalg RSA -keysize 1024 -keystore %INSTALL\_DIR%\conf\keystore

Also, the key password for the alias "tomcat" must be the same as the keystore password. Please simply press the [Enter] key when you are prompted for the key password for tomcat (i.e. press [Enter] when you see the "key password for <tomcat>" prompt)

Platform	Example
Windows	C:\Program Files\Ahsay Offsite Backup Server\conf> "C:\Program Files\Ahsay Offsite Backup Server\java\bin\"keytool -genkey -alias tomcat -keyalg RSA -keystore keystore
Linux	[root]# \$OBS_HOME/java/bin/keytool -genkey -alias tomcat -keyalg RSA -keystore \$OBM_HOME/conf/keystore
Mac OS X	[root]# keytool -genkey -alias tomcat -keyalg RSA -keystore /Applications/OBS/conf/keystore

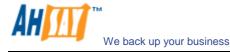
iv. Create a local Certificate Signing Request (CSR)

You can create a CSR for your SSL certificate by running:

%INSTALL\_DIR%\java\bin\keytool -certreq -keyalg RSA -alias tomcat -file ssl.csr -keystore %INSTALL\_DIR%\conf\keystore

Platform	Example
Windows	C:\Program Files\Ahsay Offsite Backup Server\conf> "C:\Program Files\Ahsay Offsite Backup Server\java\bin\"keytool -certreq -keyalg RSA -alias tomcat -keystore keystore
Linux	[root]# \$OBS_HOME/java/bin/keytool -certreq -keyalg RSA -alias tomcat -keystore \$OBM_HOME/conf/keystore
Mac OS X	[root]# keytool -certreq -keyalg RSA -alias tomcat -keystore /Applications/OBS/conf/keystore

v. Submit the CSR file to a trusted CA of your choice



vi. Import signed SSL certificate from CA back to the keystore from which the CSR was generated by:

%INSTALL\_DIR%\java\bin\keytool -import -alias tomcat -trustcacerts -file ssl.crt -keystore %INSTALL\_DIR%\conf\keystore

Platform	Example
Windows	C:\Program Files\Ahsay Offsite Backup Server\conf> "C:\Program Files\Ahsay Offsite Backup Server\java\bin\"keytool -import -alias tomcat -trustcacerts -file ssl.crt -keystore keystore
Linux	[root]# \$OBS_HOME/java/bin/keytool -import -alias tomcat -trustcacerts -file ssl.crt -keystore \$OBM_HOME/conf/keystore
Mac OS X	[root]# keytool -import -alias tomcat -trustcacerts -file ssl.crt -keystore /Applications/OBS/conf/keystore

If you are getting the "keytool error: java.lang.Exception: Failed to establish chain from reply" message when importing the SSL certificate file from CA, please try double-clicking the ssl.crt file on Windows to view all intermediate certificates being used to sign your certificate and import all intermediate certificates (downloadable from your CA) into your keystore file before importing your SSL certificate.

vii. Check if you have installed the SSL certificate correctly by:

%INSTALL\_DIR%\java\bin\keytool -list -alias tomcat -keystore %INSTALL\_DIR%\conf\keystore

Platform	Example
Windows	C:\Program Files\Ahsay Offsite Backup Server\conf>"C:\Program Files\Ahsay Offsite Backup
	Server\java\bin\"keytool -list -alias tomcat -keystore keystore
Linux	[root]# \$OBS_HOME/java/bin/keytool -list -alias tomcat -keystore \$OBM_HOME/conf/keystore
Mac OS X	[root]# keytool -list -alias tomcat -keystore /Applications/OBS/conf/keystore

Please make sure that you are getting the type "keyEntry" instead of "trustedCertEntry" from the output above. If you are getting "trustedCertEntry", the most likely cause of this is that you are NOT importing the SSL certificate back into the same keystore from which the CSR was generated. The only solution to this is to find this keystore file and import the certificate(s) to the keystore file again. If you can't find this file, please repeat the instructions in this section from step (i) and try again.

\* When asked for your "first and last name" during the key generation, please specify the domain that you will be using this certificate for. Please refer to the following example.

Full Example
C:\Program Files\Ahsay Offsite Backup Server\conf> "C:\Program Files\Ahsay Offsite Backup Server\java\bin\"keytool - delete -alias tomcat -keystore keystore
C:\Program Files\Ahsay Offsite Backup Server\conf> "C:\Program Files\Ahsay Offsite Backup Server\java\bin\"keytool - genkey -alias tomcat -keyalg RSA -keystore keystore
Enter keystore password: changeit What is your first and last name? [Unknown]: www.secure-company.com
What is the name of your organizational unit? [Unknown]: NOT SECURE What is the name of your organization?
[Unknown]: NOT SECURE What is the name of your City or Locality? [Unknown]: NOT SECURE
What is the name of your State or Province? [Unknown]: NOT SECURE
<pre>What is the two-letter country code for this unit? [Unknown]: NS Is <cn=www.secure-company.com, c="NS" l="NOT" o="NOT" ou="NOT" secure,="" st="NOT"> correct?</cn=www.secure-company.com,></pre>
[no]: yes
Enter key password for <tomcat> (RETURN if same as keystore password):</tomcat>
C:\Program Files\Ahsay Offsite Backup Server\conf> "C:\Program Files\Ahsay Offsite Backup Server\java\bin\"keytool - certreq -keyalg RSA -alias tomcat -file certreq.csr -keystore keystore Enter keystore password: changeit
C:\Program Files\Ahsay Offsite Backup Server\conf > "C:\Program Files\Ahsay Offsite Backup Server\java\bin\"keytool - import -alias tomcat -keystore keystore -trustcacerts -file ssl.crt Enter keystore password: changeit Certificate reply was installed in keystore
C:\Program Files\Ahsay Offsite Backup Server\conf > "C:\Program Files\Ahsay Offsite Backup Server\java\bin\"keytool -list -alias tomcat -keystore keystore
tomcat, 2003/6/13, keyEntry, Certificate fingerprint (MD5): xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx



#### **13.2** Enforcing SSL to the web interface

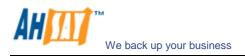
If you want all users to connect to the web interface of OBS using SSL to enforce secure connection, please do the followings:

- i. Open %INSTALL\_DIR%\webapps\obs\WEB-INF\web.xml
- ii. Locate the [Enforce SSL] section at the end of "web.xml"

web.xml
<pre> <!-- ===================================</td--></pre>
</td
<pre><security-constraint> <web-resource-collection> <web-resource-name>Automatic SLL Forwarding</web-resource-name> <url-pattern>/jsp/user/*</url-pattern> <url-pattern>/jsp/system/*</url-pattern> </web-resource-collection> <user-data-constraint> <transport-guarantee>CONFIDENTIAL</transport-guarantee> </user-data-constraint> </security-constraint>  </pre>

- iii. Remove the XML comment tags ("<!--" and "-->", shown in red and bold above) from "web.xml"
- iv. Restart OBS

Please note that this only enforces SSL when users log onto the web interface of OBS. It doesn't enforce backup traffic from OBM to be SSL.



# **14 Monitoring System Activities**

This chapter describes how you can use the [Manage Log] -> [System Log] page (shown below) to review system and backup activities of OBS.

# 14.1 Reviewing System Log

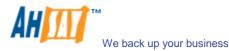
When you click the [Manage Log] -> [System Log] link available at the top menu, the [System Log] panel will appear. It lists all system messages / warnings / errors logged within the date shown on the drop down list. You can review the system messages / warnings / errors logged on any particular date by selecting the required date from the drop down list.

Offs	ite Backuj	p Server	Management	it Console - Micr	osoft Internet Expl	orer	<u>- 🗆 ×</u>
anaq	e System	Mana	age Log   <u>Ma</u>	nage User	<u>Admin</u>	istrator's Guide   Select	Language
yste	m Log 📋	Backup	Job   <u>Restore</u>	<u>ed File   Backup</u>	Error   Replication	Log Advertisement Loc	<u>Loqout</u>
			[				
Date	e (YYYY-	MM-DD	): 2007-01-0	9 💌		Rows/Page: 50	<u> </u>
				<< <u>1</u> 2	<u>3</u> 4 >>		
No.	Times	tamp			Message		
151	03:13:	46 PM	[info][www] IP='127.0.0.		[user][AddUser] Us	ser 'demo' added.	
152	03:21:					Start: System Cleanup	
153	03:21:	00 PM	Start:		][SystemCleanup][ g obsolete backup s	[RemoveOldBSetCache] set	
154	03:21:	00 PM	[info][syster	m][Thread][Job		[RemoveOldBSetCache]E	ind:
155	03:21:	00 PM	[PendingEm	nailCacheCleanii		nding backup job report	
156	03:21:	00 PM	[info][syster [PendingEm	m][Thread][Job nailCacheCleanii	][SystemCleanup] ng]E	ling backup job report	
157	03:21:	00 PM				End: System Cleanup	
158	03:36:	00 PM				Start: System Cleanup	
159	03:36:	00 PM	Start:		][SystemCleanup][ obsolete backup s	[RemoveOldBSetCache] set	
160	03:36:	00 PM			][SystemCleanup][ obsolete backup s	[RemoveOldBSetCache]E set	ind:
161	03:36:	00 PM		m][Thread][Job nailCacheCleanii	][SystemCleanup] ng]S		
)					· · ·	Local intranet	
1						j j j 🤤 Locai intranet	
			Descri	intion			

Key	Description
Date	The date when all messages were logged
Rows/Page	The number of rows to display per page
Timestamp	The time when the message was logged
Message	The system log message

## 14.2 Reviewing Backup Log

When you click the [Manage Log] -> [Backup Log] link available at the top menu, the [Backup Log] panel will appear. It lists all backup jobs run on a particular date. You can review the backup jobs run on any particular date by selecting the required date from the drop down list.



					e (YYYY-MM-DD): 2005-07-02	Dat
	Job Status	Upload Size	Job Number	Login Name	Backup Time	
	OK	0	2005-07-02 (09:00)	terry	02/07 09:02AM - 02/07 09:02AM	1
	OK	0	2005-07-02 (09:00)	terry	02/07 09:02AM - 02/07 09:02AM	2
	User	120.1M	2005-07-02 (09:00)	terry	02/07 09:04AM - 02/07 09:22AM	3
	interrupted					
-	OK	0	2005-07-02 (09:23)	terry	02/07 09:26AM - 02/07 09:26AM	4
	OK	0	2005-07-02 (09:23)	terry	02/07 09:26AM - 02/07 09:26AM	5
	OK	0	2005-07-02 (09:25)	terry	02/07 09:28AM - 02/07 09:28AM	6
	OK	0	2005-07-02 (09:25)	terry	02/07 09:28AM - 02/07 09:28AM	7
	OK	0	2005-07-02 (09:28)	terry	02/07 09:31AM - 02/07 09:31AM	8
	OK	0	2005-07-02 (09:28)	terry	02/07 09:31AM - 02/07 09:31AM	9
	OK	0	2005-07-02 (09:32)	terry	02/07 09:34AM - 02/07 09:34AM	10
	OK OK	0	2005-07-02 (09:32) 2005-07-02 (09:32)	terry	02/07 09:34AM - 02/07 09:34AM 02/07 09:35AM - 02/07 09:35AM	11 12
	OK	0	2005-07-02 (09:32)	terry	02/07 09:35AM - 02/07 09:35AM 02/07 09:35AM - 02/07 09:35AM	13
	OK	0	2005-07-02 (09:32)	terry	02/07 09:38AM - 02/07 09:38AM	14
	OK	0	2005-07-02 (09:35)	terry	02/07 09:38AM - 02/07 09:38AM	15
	OK	0	2005-07-02 (09:33)	terry	02/07 09:44AM - 02/07 09:44AM	16
	OK	0	2005-07-02 (09:41)	terry	02/07 09:44AM - 02/07 09:44AM	17
	OK	0	2005-07-02 (09:41)	terry	02/07 09:50AM - 02/07 09:50AM	18
	OK	0	2005-07-02 (09:47)	terry	02/07 09:50AM - 02/07 09:50AM	19
c			2000-07-02 (09:47)	COLL 1	02/07/09/00/09/00/09/00/09/00/04/1	

Кеу	Description
Date The date when all backup jobs listed below were run	
Backup Period	Start and end time of this backup job
Login Name	Backup Account that ran this backup job
Job No.	Backup Job Number
Upload Size	Size of backup data uploaded
Status	Overall status of the backup job

## 14.3 Reviewing Restored File Log

When you click the [Manage Log] -> [Restored File] link available at the top menu, the [Restore Log] panel will appear. It lists all online file restoration activities logged within a date. You can review online file restoration activities recorded on any particular date by selecting the required date from the drop down list.

Offsite Backup Server Management Console - Microsoft Internet Explorer				I I I X
<u> Manage System</u>   Manage Log   <u>Manage User</u>	Administra	tor's Gi	uide   <u>Select Lar</u>	nguage
System Log   Backup Job   Restored File   Backup Error   Re	plication Log			Logout
Date (YYYY-MM-DD): 2005-06-28 💌				
Restore Time	Login Name	Size	IP	
1 2005/06/28 09:54:29PM - 2005/06/28 09:54:29PM	demo	0	192.168.0.108	3
2 2005/06/28 09:55:09PM - 2005/06/28 09:55:09PM	demo	854k	192.168.0.108	3
3 2005/06/28 09:55:59PM - 2005/06/28 09:56:01PM	demo	2.2M	192.168.0.108	3
4 2005/06/28 10:00:41PM - 2005/06/28 10:00:42PM	demo	2.2M	192.168.0.108	3
2				

Кеу	Description
Date	The date when all online file restoration were recorded
Timestamp	Start and end time of the file restoration activities
Login Name	Backup account restoring files from the server
Size	Total backup data restored from the server
IP	IP address to where backup data were restored



## 14.4 Reviewing Backup Error Log

When you click the [Manage Log] -> [Backup Error] link available at the top menu, the [Backup Error] panel will appear. It lists all backup errors or warning logged within a date. You can review backup errors or warnings logged on any particular date by selecting the required date from the drop down list.

lana	<u>ge System</u>   Ma	anage Log	nsole - Microsoft Internet Explorer Manage User Administrator's Guide   Select red File   Backup Error   Replication Log	Language Logout
Dat	e (YYYY-MM-I Timestamp 01:00:06PM			
2	01:00:41PM	win2000	[Microsoft][ODBC SQL Server Driver][SQL Server]Cannot perform a differential backup for database 'ISALOC_20050623_FWS_001 ', because a current database backup does not exist. Perform a full database backup by reissuing BACKUP DATABASE, omitting the WITH DIFFERENTIAL option.	
3	01:00:41PM 01:01:17PM	win2000 win2000	[Microsoft][ODBC SQL Server Driver][SQL Server]BACKUP DATABASE is terminating abnormally. [Microsoft][ODBC SQL Server Driver][SQL Server]Cannot perform a differential backup for database 'ISALOC_20050623_WEB_001 ', because a current database backup does not exist. Perform a full database backup by reissuing BACKUP DATABASE, omitting the WITH DIFFERENTIAL option.	
5	01:01:18PM 01:01:22PM	win2000	[Microsoft][ODBC SQL Server Driver][SQL Server]BACKUP DATABASE is terminating abnormally. [Microsoft][ODBC SQL Server Driver][SQL Server]Cannot	-
) (e)	1		Description	1.
Dat			The date when all messages were logged	

Кеу	Description
Date	The date when all messages were logged
Timestamp	The time when this message was logged
Login Name	Backup account raising this error or warning
Errors / Warnings	Details of the error or warning recorded

# 14.5 Reviewing Advertisement Log

When you click the [Manage Log] -> [Advertisement Log] link available at the top menu, the [Advertisement Log] panel will appear. It lists all the advertisements displayed by ACB clients for a particular date. You can review displayed adverts on any particular date by selecting the required date from the drop down list.

		e Log   <u>Manage Us</u>				r's Guide   Select Langua
stem	Log Backup Job	Restored File B	ackup Er	ror Replication	<u>n Loa</u>   <mark>Adverti</mark>	sement Logo Logo
		0007.04.40				
)ate (	(YYYY-MM-DD):				1	Rows/Page: 50
lo.	Timestamp	Name	Туре			URL
	03:07:43	Your ad	IMP	john	127.0.0.1	www.google.com/
	03:07:44	Change URL	IMP	john	127.0.0.1	www.cnn.com
	03:07:51	Easy to use	IMP	john	127.0.0.1	www.yahoo.com
	03:07:58	Your ad	IMP	john	127.0.0.1	www.google.com/
	03:08:05	Change URL	IMP	john	127.0.0.1	www.cnn.com
	03:08:06	Easy to use	HIT	john	127.0.0.1	www.yahoo.com
	03:08:12	Easy to use	IMP	john	127.0.0.1	www.yahoo.com
	03:08:15	Change URL	HIT	john	127.0.0.1	www.cnn.com
	03:08:19	Your ad	IMP	john	127.0.0.1	www.google.com/
0	03:08:26	Change URL	IMP	john	127.0.0.1	www.cnn.com
1	03:08:28	Your ad	HIT	john	127.0.0.1	www.google.com/
2	03:08:33	Easy to use	IMP	john	127.0.0.1	www.yahoo.com
3	03:08:40	Your ad	IMP	john	127.0.0.1	www.google.com/
4	03:08:47	Change URL	IMP	john	127.0.0.1	www.cnn.com
5	03:08:54	Easy to use	IMP	john	127.0.0.1	www.yahoo.com
6	03:09:01	Change URL	HIT	john	127.0.0.1	www.cnn.com
7	03:09:01	Your ad	IMP	john	127.0.0.1	www.google.com/
8	03:09:02	Change URL	HIT	john	127.0.0.1	www.cnn.com
9	03:09:08	Change URL	IMP	john	127.0.0.1	www.cnn.com
0	03:09:15	Easy to use	IMP	john	127.0.0.1	www.yahoo.com
1	03:09:22	Your ad	IMP	john	127.0.0.1	www.google.com/
2	03:09:29	Change URL	IMP	john	127.0.0.1	www.cnn.com

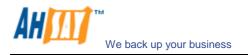
Кеу	Description
Date	The date when the advertisements listed below were displayed
Rows/Page	The number of rows to display per page
Timestamp	The time when the advert was displayed



Name	The name of the advertisement	
Туре	<ul> <li>Advertisement display types:</li> <li>IMP – Impression, this advertisement was displayed</li> <li>HIT – Hit, this advertisement was displayed and the user clicked the advert to go to the target web page.</li> </ul>	
User Name	The user account name of the ACB client	
Remote IP	The remote IP address of the ACB client	
URL	The target URL associated with this advert	

# 14.6 Reviewing access logs

If you are interested in reviewing how your clients are accessing OBS, you can take a look at the access logs files available in %INSTALL\_DIR%\logs\access\_log.YYYY-MM-DD.txt



# **15 Branding OBM (Partners Only)**

#### **15.1 Customization Portal**

The OBM customization portal (<u>http://partners.ahsay.com/</u>) allows you to do the followings:

- i. Building an OBM installer (e.g. obm-win.exe for Windows) under your own company name
- ii. Set the vendor name, support email and URL to your own values
- iii. Put your own company logo and other images into OBM
- iv. Set the default backup server hostname, TCP port number and protocol (HTTP/HTTPS) to your own values
- v. Hide/Show encrypting key checkbox in OBM
- vi. Hide/Show language selection list in OBM
- vii. Hide/Show the backup server URL textbox in OBM
- viii. Set the default language for OBM
- ix. Enable/Disable languages for OBM
- x. Enable/Disable user account profile update from OBM
- xi. Customize the terms of use statements shown in the installer of OBM

Once you have made all the customization you want, you can download a customized version of OBM from the download page (shown below) of the customization portal.

Please refer to the Installers Customization Guide from the OBM customization portal for more information.

Download Area				
Platform Download		File Size	Last Modified	
2	<u>Download</u>	37 Mb	14-06-2005 03:38:33 GMT	
4	Download	9 Mb	14-06-2005 03:39:03 GMT	
<b>∆</b>	Download	34 Mb	14-06-2005 03:39:55 GMT	
Ν	<u>Download</u>	4 Mb	14-06-2005 03:39:59 GMT	
solaris	<u>Download</u>	4 Mb	14-06-2005 03:40:10 GMT	
	Check Status			



# 16 Branding OBS

This chapter describes how you can customize OBS to make it look the way you want it to be.

#### 16.1 Welcome page

If you would like to use your own welcome page on the backup server, simply replace the default welcome page, %INSTALL\_DIR%\webapps\ROOT\index.html, with your own welcome page.

#### **16.2** Different welcome pages for different domains

If you want to show different welcome pages for requests to different domain names, please do the followings:

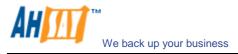
- Rename %INSTALL\_DIR%\webapps\ROOT\index.html to %INSTALL\_DIR%\webapps\ROOT\index\_defaultDomain.html
- ii. Create %INSTALL\_DIR%\webapps\ROOT\index.jsp with the following content. Suppose you have 4 domains in total. If you want requests to OBS using the domain name "domain2.com" to see "index\_Domain2.html"and requests to OBS using the domain name "domain3.com" to see "index\_Domain3.html", you should put the highlighted code below.

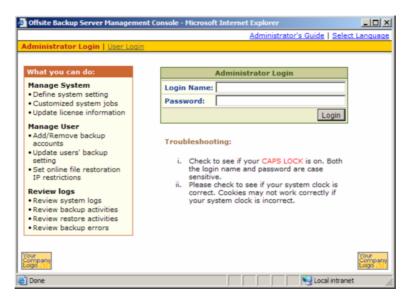
%INSTALL_DIR%\webapps\ROOT\index.jsp
<%@ page language="java" %>
<%
If you want to redirect request from different domains to different index pages, please modify the "domain to URL mapping" defined by the String array declaration below to define your own mapping.
%>
<%
<pre>String sURL = "index_defaultDomain.html"; String sRequestURL = request.getRequestURL().toString().toLowerCase();</pre>
String[] asMap = {
"domain2.com", "index Domain2.html",
"domain3.com", "index_Domain3.html",
};
for(int i=0; asMap!=null && i <asmap.length; i+="2)" td="" {<=""></asmap.length;>
String sDomain = asMap[i].toLowerCase();
if(sRequestURL.indexOf(sDomain)!=-1) {
<pre>sURL=asMap[i+1]; break;</pre>
break,
response.sendRedirect(sURL);
*>

Please note that you need to create the both "index\_Domain2.html" and "index\_Domain3.html" yourself and place it in the %INSTALL\_DIR%\webapps\ROOT directory.

## 16.3 Customizing the company logo displayed

Two different logos are displayed on the bottom left hand corner and bottom right hand corner of every page.





You can customize the logos shown on the bottom left hand corner and the bottom right hand corner of every page by:

- i. Go to %INSTALL\_DIR%\webapps\obs\logo
- ii. To display your image at the bottom left hand corner of every page, simply save your image as "default.small.left.gif" in the directory above
- iii. To display your image at the bottom left hand corner of every page, simply save your image as "default.small.right.gif" in the directory above
- iv. If you don't want to display any images at these locations, just rename "empty.gif" to "default.small.left.gif" or "default.small.right.gif"

#### Different logos for different domain names

If you are mapping both domain "<u>www.company-A.com</u>" and domain "<u>www.company-B.com</u>" to the IP address of the OBS and you want to display different logos when users are browsing the web pages using different domain names, you can do the followings:

- i. Go to %INSTALL\_DIR%\webapps\obs\logo
- ii. To display your image at the bottom left and right hand corner of every page for domain "<u>www.company-A.com</u>", simply save your image as "www.company-A.com.small.left.gif" and "www.company-A.com.small.right.gif" respectively in the directory above
- iii. To display your image at the bottom left and right hand corner of every page for domain "<u>www.company-B.com</u>", simply save your image as "www.company-B.com.small.left.gif" and "www.company-B.com.small.right.gif" respectively in the directory above

#### 16.4 Customizing the Look and Feel of the web interface

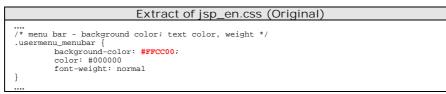
The Look and Feel (e.g. font size and color) of the web interface of OBS is defined by a set of rules defined in a cascade style sheet. If you want to customize the Look and Feel of the web interface to fully integrate OBS into your website, you can do the followings:

- i. Open %INSTALL\_DIR%\webapps\obs\jsp\lib\jsp\_\*.css (e.g. en=English, fr=French, cs=Czech, da=Danish, nl=Dutch, de=German, es=Spanish, sv=Swedish, zh\_TW=Traditional\_Chinese, zh\_CN=Simplified\_Chinese etc)
- ii. Make the changes to the cascade style sheet file to what you would like to see.

For example, if you want to change the English user menu bar from yellowish color (#FFCC00) to



red color. Please do the followings:



Extract of jsp_en.css (updated)	
<pre> /* menu bar - background color; text color, weight */ .usermenu_menubar {</pre>	

iii. Restart your browser to see the changes

#### 16.5 Customizing all text of the web interface

All text displayed on the web interface of OBS are stored in properties files. If you want to modify any of the text information displayed on the web interface, please do the followings:

- i. Open %INSTALL\_DIR%\properties.xls located on OBS (There are VBA scripts inside this Excel file. Please use Excel 2000 or above to open this file)
- ii. Switch to the [obs-jsp] worksheet
- iii. Modify the entries that you want to customize
- iv. Press the [Generate] button
- v. Copy the generated jsp\_\*.properties files, which can be found under the [obs] subdirectory under the directory where the Excel file is located, to %INSTALL\_DIR%\webapps\obs\WEB-INF\classes
- vi. Restart OBS backup services to see the changes

## 16.6 Customizing email reports

The instruction of customizing all text in all outgoing email reports is the same as the instruction of customizing all text displayed on the web interface. Simply do this:

- i. Open %INSTALL\_DIR%\properties.xls located on OBS (There are VBA scripts inside this Excel file. Please use Excel 2000 or above to open this file)
- ii. Switch to the [obs-jsp] worksheet
- iii. Modify the [jsp.report.\*] entries that you want to customize
- iv. Press the [Generate] button
- v. Copy the generated [ obs \ jsp\_\*.properties] files to %INSTALL\_DIR%\webapps\obs\WEB-INF\classes
- vi. Restart OBS backup services to see the changes

If you are interested in displaying your own logo in all out-going email reports, simply replace %INSTALL\_DIR%\webapps\obs\logo\default.large.gif with your own logo. All email reports sent after you have made the changes will carry your customized logo.

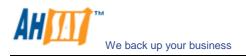
It is currently not possible to change the layout and the Look&Feel (e.g. color, font size) of all out-going email



reports. This feature will be available in v6.0 scheduled late 2006.

# 16.7 Localizing the software

It is currently possible to have OBS localized to another language without the assistance of our development team. If you would like to have OBS available in languages other than those currently supported, please feel free to contact us to discuss possible arrangement.



# **17 Other Configuration**

The default installation of OBS setup a typical environment to run your backup server but it is still possible that the default setting does not fit well into your environment. The chapter describes all supported customizations you can do to the software to fulfil your special needs.

# 17.1 Listening to non-standard TCP/IP Port

If you like to run your own web server, or some other services using port 80 and 433, on your backup server, you can change the listening TCP/IP port of OBS from port 80 and 443 to some other port numbers by:

i. Open %INSTALL\_DIR%\conf\server.xml

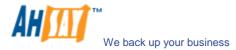
Server.xml
<server debug="0" port="8014" shutdown="SHUTDOWN"></server>
<service name="Tomcat-Standalone"></service>
<pre><!-- Define a non-SSL HTTP/1.1 Connector on port 80--> <connector acceptcount="1000" address="0.0.0.0" buffersize="32768" classname="org.apache.coyote.tomcat5.CoyoteConnector" connectiontimeout="600000" disableuploadtimeout="true" enablelookups="false" maxhttpheadersize="8192" maxkeepaliverequests="1" maxsparethreads="100" maxthreads="1000" minsparethreads="25" port="80" redirectport="443"></connector></pre>
<pre><!-- Define a SSL HTTP/1.1 Connector on port 443--> <connector acceptcount="1000" address="0.0.0.0" buffersize="32768" classname="org.apache.coyote.tomcat5.CoyoteConnector" clientauth="false" connectiontimeout="600000" disableuploadtimeout="true" enablelookups="false" keystorefile="conf/keystore" keystorepass="changeit" maxhtpheadersize="8192" maxkeepaliverequests="1" maxsparethreads="100" maxthreads="1000" minsparethreads="25" port="443" scheme="https" secure="true" sslprotocol="TLS"></connector></pre>

ii. Change the [port] values (shown in red and bold above) to the preferred port numbers. For example, to change the HTTP port from port 80 to 8080 and HTTPS port from port 443 to port 8443, please do the followings:

port="80" -> port="8080 redirectPort="443" -> redirectPort ="8443" port="443" -> port="8443"

- iii. Restart OBS
- iv. Logon to the System Management Console
- v. Append the custom TCP/IP port number to the [Host Name] setting

For example: backup.your-company.com:8080



Offsite Backup Server Managemei	nt Console - Microsoft Internet Explorer		
anage System   <u>Manage Lo</u>		Administrator's Guide   Sel	ect Langua
e <mark>rver Configuration</mark>   <u>Rou</u>	<u>tine Job   Software License   Replication</u>	n Config	Logo
System Setting			
Login Name	: system		
Password	: *******		
lost Name	: backup.your-company.com:8080		
System Home	: E:\System		
User Homes	: 1 E:\Users		
	New		
Email System Setting			
SMTP Server		n Name Password	
	1 mail.your-company.com		
	New		
Report Sender	: Name EMail		
	Report Manager  report@your-c	company.com	
Administrator Contact	: Name EMail		
		@your-company.com	
	New		

#### 17.2 Listening to a single IP address

If the backup server has more than one network interface installed or has more than one IP address bind to a single network interface, you can configure OBS to use only a single IP address for backup services (by default the TCP port of all IP addresses available within the system are used and open). This has the benefits of sparing other IP addresses for other applications, e.g. Apache Web Server or Microsoft Internet Information Server (IIS). To do so,

i. Open %INSTALL\_DIR%\conf\server.xml

Server.xml		
<server debug="0" port="8014" shutdown="SHUTDOWN"></server>		
<service name="Tomcat-Standalone"></service>		
Define a non-SSL HTTP/1.1 Connector on port 80 <connector <br="" classname="org.apache.coyote.tomcat5.CoyoteConnector">address="0.0.0.0" port="80" maxHttpHeaderSize="8192" maxKeepAliveRequests="1" maxThreads="1000" minSpareThreads="25" maxSpareThreads="100" enableLookups="false" redirectPort="443" bufferSize="32768" acceptCount="1000" connectionTimeout="600000" disableUploadTimeout="true"/&gt;</connector>		
<pre><!-- Define a SSL HTTP/1.1 Connector on port 443--> <connector acceptcount="1000" address="0.0.0.0" buffersize="32768" classname="org.apache.coyote.tomcat5.CoyoteConnector" clientauth="false" connectiontimeout="600000" disableuploadtimeout="true" enablelookups="false" keystorefile="conf/keystore" keystorepass="changeit" maxhttpheadersize="8192" maxkeepaliverequests="1" maxsparethreads="100" maxthreads="1000" minsparethreads="25" port="443" scheme="https" secure="true" sslprotocol="TLS"></connector></pre>		

ii. Change the [address] values (shown in red and bold above) to the IP address that are to be used for OBS. For example, to use only the IP address, 192.168.1.1, for backup service, change the address values from "0.0.0.0" (means all available IP addresses) to "192.168.1.1"

address="0.0.0.0" -> address="192.168.1.1"

iii. Restart OBS

If you are going to use IIS along with OBS on different IP addresses as mentioned here, please make sure that you have configured IIS to spare the IP address configured above to be used by OBS (by default IIS will use the all IP addresses available). Failing to do so will result in failing to start both IIS and OBS at the same time.



This chapter describes all other features available in the software.

# 17.3 Backing up OBS

All system settings you have made on the web pages behind the [Backup System Administration Logon] link are saved in %INSTALL\_DIR%\config\obs.xml. You just need to backup this file to backup all the settings.

Of course, all files under the [User Homes] directories and [System Home] directory are to be backed up unless you can afford to lose your users' backup data and all system information logged by OBS.

#### 17.4 Restricting access to system page by IP address

For better security, you can restrict access to the system administration console by IP addresses. To do so, please do the followings:

- i. Open %INSTALL\_DIR%\webapps\obs\WEB-INF\web.xml
- ii. Locate the [filter] section near the beginning of "web.xml"

web.xml
<pre></pre>

iii. Change the [Range2] parameter value from "127.0.0.1-127.0.0.1" (shown in red and bold above) to a range of IP addresses from where access to the system administration console is allowed.

For example, changing [Range2] value from "127.0.0.1-127.0.0.1" to "192.168.1.1-192.168.1.255" to allow the 192.168.1.x network to invoke the APIs.

web.xml (Updated)
<pre>veb.xnn (Updated) <filter> <filter> <filter-name>SystemConsole</filter-name> <filter-class>com.ahsay.obs.www.IPFilter</filter-class> <init-param> <param-value>localhost</param-value> </init-param> <init-param> <init-param> <param-name>Range2</param-name> <param-name>Range2</param-name> <param-value>192.168.1.1-192.168.1.255</param-value> <!--/initer--> </init-param></init-param></filter></filter></pre>

Please note that you can configure more than one IP range by adding additional init parameters (i.e. "Range3", "Range4" and so do) to the filter XML tag.

For example,

```
<filter>
<filter-name>SystemConsole</filter-name>
<filter-class>com.ahsay.obs.www.IPFilter</filter-class>
<init-param>
<param-name>Rangel</param-name>
</init-param>
<init-param>
<init-param>
<param-name>Range2</param-name>
<param-value>192.168.1.1-192.168.1.255</param-value>
</init-param>
<param-name>Range3</param-name>
<param-value>192.168.2.1-192.168.2.255</param-value>
</init-param>
<param-value>192.168.2.1-192.168.2.255</param-value>
</init-param>
<param-value>192.168.2.1-192.168.2.255</param-value>
</init-param>
<param-value>192.168.2.1-192.168.2.255</param-value>
</init-param>
</param-value>192.168.2.1-192.168.2.255</param-value>
</init-param>
</param-value>192.168.2.1-192.168.2.255</param-value>
</init-param>
</param-value>192.168.2.1-192.168.2.255</param-value>
</param-value>
</param-value>192.168.2.1-192.168.2.255</param-value>
</param-value>
</param-valu
```

iv. Restart OBS



# **18 External APIs**

OBS contains a set of APIs (Application Programming Interface), which allows you to integrate external applications (e.g. billing system or automated registration system) with OBS. This chapter describes what APIs are available and how you can invoke different APIs.

You can find more information on processing XML using Java at http://java.sun.com/xml/.

### 18.1 Overview

OBS APIs can be invoked by using standard HTTP request method (i.e. either POST or GET). For example, to invoke the [Remove User] API, simply use any programming/scripting languages of your choice to invoke "http://BACKUP\_SERVER/obs/api/RemoveUser.do?SysUser=system&SysPwd=system&LoginName=test" to delete user "test".

URL encoding must be applied to all non-alphanumeric parameters when submitting the API requests as specified in the HTTP protocol specification. For example, a value of "GMT-08:00 (PST)" must be submitted to OBS in external API as "GMT%2d08%3a00+%28PST%29".

### 18.2 IP Restrictions

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

- i. Open %INSTALL\_DIR%\webapps\obs\WEB-INF\web.xml
- ii. Locate the [filter] section near the beginning of "web.xml"



iii. Change the [Range1] parameter value from "127.0.0.1-127.0.0.1" (shown in red and bold above) to another range of IP addresses from where APIs can be invoked.

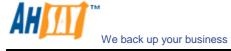
For example, changing [Range1] value from "127.0.0.1-127.0.0.1" to "192.168.1.1-192.168.1.255" to allow the 192.168.1.x network to invoke the APIs.

web.xml (Updated)
<pre></pre>

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

For example,

```
<filter>
<filter-name>LocalhostOnly</filter-name>
<filter-class>com.ahsay.obs.www.IPFilter</filter-class>
```



< i	.nit-param>
	<param-name>Range1</param-name>
	<param-value>localhost</param-value>
< /	'init-param>
< i	.nit-param>
	<param-name>Range2</param-name>
	<pre><param-value>192.168.1.1-192.168.1.255</param-value></pre>
< /	'init-param>
< i	.nit-param>
	<param-name>Range3</param-name>
	<pre><param-value>192.168.2.1-192.168.2.255</param-value></pre>
< /	'init-param>
<td>ilter&gt;</td>	ilter>

iv. Restart OBS

# 18.3 User Authorization

The following table describes all information required to invoke the [Auth User] API to check whether an existing user is authorized.

UR	JRL:				
	http://BACKUP_SERVER/obs/api/AuthUser.do				
Pai	rameters:				
	Key	Value	Descriptions		
	SysUser	String	OBS's System Username		
	SysPwd	String	OBS's System password		
	LoginName	String	Login name of the user		
	Password	String	Password of the user		
Ret	Return Value:				
	If successful, returns <ok></ok> If there is an error, returns <err>%ERROR_MESSAGE%</err>				
Exa	ample:				
	http://BACKUP_SERVER/obs/api/AuthUser.do?SysUser=system&SysPwd=system&LoginName=test&Password=abc				

## 18.4 Adding User

The following table describes all information required to invoke the [Add User] API to add a new user to OBS.

URL	URL:				
	http://BACKUP_SERVER	R/obs/api/Ad	id <u>User.do</u>		
Para	Parameters:				
	Key	Value	Descriptions		
	SysUser	String	OBS's System Username		
	SysPwd	String	OBS's System password		
	LoginName	String	New user's login name		
	Password	String	New user's password		
	Alias	String	New user's alias		
	Language	String	New user's language, e.g. [ en   cs   da   de   es   fr   fi   is   it   ja   lt   nl   no   pt_PT   sl   sv   zh_TW   zh_CN ] where "en" = English, "cs" = Czech, "da" = Danish, "de" = German, "es" = Spanish, "fr" =French, "fi" = Finnish, "is" = Icelandic, "it" =Italian, "ja" = Japanese, "It" = Lithuanian, "nl" = Dutch, "no"=Norwegian, "pt_PT" = Portuguese, "sl" = Slovenian, "sv" = Swedish, "zh_CN" = Chinese (Simplified), "zh_TW" = Chinese (Traditional)		
	Туре	String	New user's type, e.g. [TRIAL   PAID ]		
	ClientType	String	New user's client type, e.g. [ OBM   ACB ]		
	AdGroup	String	Advertisement group (ACB clients only) e.g. [ ALL   NONE ]		
	Quota	Number	New user's quota, e.g. 104857600 (for 100MB)		
	UserHome	String	User Home to use for the new user (must be one of the configured user home), e.g. C:\Program Files\Ahsay Offsite Backup Server\user		
	EnableMSSQL	Boolean	Whether to enable Microsoft SQL Server module for the new user, e.g. [Y   N]		
	EnableMSExchange	Boolean	Whether to enable Microsoft Exchange Server module for the new user, e.g. [Y   N]		
	EnableOracle	Boolean	Whether to enable Oracle module for the new user, e.g. [Y   N]		
	EnableLotusNotes	Boolean	Whether to enable Lotus Notes module for the new user, e.g. [Y   N]		
	EnableLotusDomino	Boolean	Whether to enable Lotus Domino module for the new user, e.g. [Y   N]		



EnableInFileDelta	Dealars	
	Boolean	Whether to enable In-File Delta module for the new user, e.g. [Y   N]
EnableShadowCopy	Boolean	Whether to enable Shadow Copy module for the new user, e.g. [Y   N]
EnableExchangeMailbo	ox Boolean	Whether to enable Brick Level Microsoft Exchange module for the new user, e.g. [Y   N]
ExchangeMailboxQuota		The number of Microsoft Exchange mailboxes allowed for the user.
Contact[1-9]	String	Extra contact name. Notes, There can be more than one extra name added, extra contact name must be in pair with extra email
Email[1-9]	String	Extra contact e-mail. Notes, There can be more than one extra email added, extra contact email must be in pair with extra contact name
Timezone	String	New User's time zone setting. It has to be either one of the following entries: Please make sure the parameter is properly URL encoded. E.g. GMT-08:00 (PST) => GMT%2d08%3a00+%28PST%29 GMT-11:00 (WST) GMT-04:00 (AMT) GMT+03:00 (MSD) GMT+08:00 (IRKST)
		Simi-11:00 (NUT)         GMT-04:00 (XMT)         GMT+04:00 (NUT)         GMT+04:00 (NUT)           GMT-11:00 (NUT)         GMT-04:00 (CTT)         GMT+04:00 (AZST)         GMT+08:00 (PHT)           GMT-11:00 (NUT)         GMT-03:00 (ART)         GMT+04:00 (AZST)         GMT+08:00 (PHT)           GMT-10:00 (HADT)         GMT-03:00 (ART)         GMT+04:00 (GST)         GMT+08:00 (BRT)           GMT-10:00 (HST)         GMT-03:00 (GFT)         GMT+04:00 (ASMST)         GMT+08:00 (JAYT)           GMT-10:00 (TKT)         GMT-03:00 (WGST)         GMT+04:00 (SAMST)         GMT+09:00 (JST)           GMT-10:00 (CKT)         GMT-03:00 (WGST)         GMT+04:00 (MUT)         GMT+09:00 (JST)           GMT-10:00 (CKT)         GMT-02:00 (ST)         GMT+04:00 (KET)         GMT+09:00 (YAKST)           GMT-09:00 (GAMT)         GMT-02:00 (ST)         GMT+05:00 (TMT)         GMT+09:00 (PWT)           GMT-08:00 (PST)         GMT-01:00 (EGST)         GMT+05:00 (TJT)         GMT+10:00 (DDUT)           GMT-07:00 (MDT)         GMT-01:00 (EGST)         GMT+05:00 (TT)         GMT+10:00 (VAST)           GMT-06:00 (CST)         GMT+00:00 (WET)         GMT+10:00 (VAST)         GMT+10:00 (VAST)           GMT-06:00 (CST)         GMT+00:00 (WET)         GMT+10:00 (TT)         GMT+11:00 (VAST)           GMT-06:00 (CST)         GMT+00:00
Bandwidth	String	0 = Unlimited Bandwidth
Notes	String	
Email	String	New user's contact email
SendWelcomeMail	String	[Y   N]
Return Value:		
If successful, returns <		RROR_MESSAGE%
Example:		

# 18.5 Modifying User Profile

The following table describes all information required to invoke the [Modify User] API to update a user's profile in an OBS.

URL	URL:				
	http://BACKUP_SERVER/obs/api/ModifyUser.do Parameters:				
Para					
	Key	Value	Descriptions		
	SysUser	String	OBS's System Username		
	SysPwd	String	OBS's System password		
	LoginName	String	User's login name		
	Password	String	User's password		



Type ClientType	String	User's language, e.g. [ en   cs   da   de   es   fr   fi   is   it   ja   lt   nl   no   pt_PT   sl   sv   zh_TW zh_CN ] where "en" = English, "cs" = Czech, "da" = Danish, "de" = German, "es" = Spanish, "fr" =French, "fi" = Finnish, "is" = Icelandic, "it" =Italian, "ja" = Japanese, "It" = Lithuanian, "nl" = Dutch, "teri" Newspice "ter DT".
ClientType	String	"no"=Norwegian, "pt_PT" = Portuguese, "sl" = Slovenian, "sv" = Swedish, "zh_CN" = Chinese (Simplified), "zh_TW" = Chinese (Traditional)
		User's type, e.g. [ TRIAL   PAID ]
Status	String	User's client type, e.g. [ OBM   ACB ]
	String	User's status, e.g. [ENABLE   SUSPENDED ]
Quota	Number	User's quota, e.g. 104857600 (for 100MB)
	String	User Home to use for the new user (must be one of the configured user home), e.g. C:\Program Files\Ahsay Offsite Backup Server\user
EnableMSSQL	Boolean	Whether to enable Microsoft SQL Server module for this user, e.g. [Y   N]
EnableMSExchange	Boolean	Whether to enable Microsoft Exchange Server module for this user, e.g. [Y   N]
EnableOracle	Boolean	Whether to enable Oracle module for this user, e.g. [Y   N]
EnableLotusNotes	Boolean	Whether to enable Lotus Notes module for this user, e.g. [Y   N]
EnableLotusDomino	Boolean	Whether to enable Lotus Domino module for this user, e.g. [Y   N]
···· , ···	Boolean	Whether to enable MySQL module for this user, e.g. [Y   N]
	Boolean	Whether to enable In-File Delta module for this user, e.g. [Y   N]
.,,	Boolean	Whether to enable Shadow Copy module for this user, e.g. [Y   N]
ő	Boolean	Whether to enable Brick Level Microsoft Exchange module for this user, e.g. [ Y $\mid$ N ]
8	Number	The number of Microsoft Exchange mailboxes allowed for this user.
	String	Whether to append or overwrite contact information [Y   N]
	String	Extra contact name. Notes, There can be more than one extra name added, extra contact nam must be in pair with extra email below
Email1	String	Extra contact e-mail. Notes, There can be more than one extra email added, extra contact ema must be in pair with extra contact name above
		$ \begin{array}{l} \label{eq:second} Please make sure the parameter is properly URL encoded. E.g. GMT-08:00 (PST) => \\ \end{tabular} \\ \e$
Bandwidth	Number	GMT-04:00 (BOT) 0 = Unlimited Bandwidth
	String	
urn Value:	Sung	
If successful, returns <ok <="" td=""><td>15</td><td></td></ok>	15	
If there is an error, returns		ROR_MESSAGE%
mple:		
	obs/api/Mo	difyUser.do?SysUser=system&SysPwd=system&LoginName=test&Password=abc&Alias=Testii



n%2Ecom&Contact2=paul&Email2=paul%40anotherDomain%2Ecom&EnableExchangeMailbox=Y&ExchangeMailboxQuota=10&ClientT ype=OBM

# 18.6 Deleting User

The following table describes all information required to invoke the [Remove User] API to remove an existing user from an OBS.

URI	URL:				
	http://BACKUP_SER	VER/obs/api/R	lemoveUser.do		
Par	ameters:				
	Key Value Descriptions				
	SysUser	String	OBS's System Username		
	SysPwd	String	OBS's System password		
	LoginName	String	Login name of user to be deleted		
Ret	urn Value:				
	If successful, returns <ok></ok> If there is an error, returns <err>%ERROR_MESSAGE%</err>				
Exa	Example:				
	http://BACKUP_SER\	VER/obs/api/R	emoveUser.do?SysUser=system&SysPwd=system&LoginName=test		

# 18.7 Listing Users

The following table describes all information required to invoke the [List Users] API to get a list of all users available within OBS.

URL:		
http://BACKUP_SE	RVER/obs/api/Li	istUsers.do
Parameters:		
Key	Value	Descriptions
SysUser	String	OBS's System Username
SysPwd	String	OBS's System password
Return Value:		
If successful, return	IS	
Timezor DataFile RetainF EnableA EnableA EnableI EnableB Bandwic Status= <contact gmt+08:00<br="" name="Jo&lt;/td&gt;&lt;th&gt;ie=">I="1234" DataSiz ile="1234" Retair ISSQL="Y" Enablotus Doracle="Y" Enablotus OtusDomino="Y" IFileDelta="Y" Er ischangeMailbox ith="0" Notes="" IENABLE" Regis Sohn (Email)" em<th>nSize="1234" bleMSExchange="Y" leLotusNotes="Y" " EnableMySQL="Y" nableShadowCopy="Y" (=Y ExchangeMailboxQuota=10</th></contact>	nSize="1234" bleMSExchange="Y" leLotusNotes="Y" " EnableMySQL="Y" nableShadowCopy="Y" (=Y ExchangeMailboxQuota=10	
If there is an error, Where	returns <err>%E</err>	RROR_MESSAGE%
ClientType = cl Quota = quota Timezone = us Language = us DataFile = tota DataSize = tota RetainFile = tot RetainSize = to EnableMSSQL	Tas er type [ PAID   T ent type [ OBM   in bytes er's time zone er's language number of files i l amount of bytes al number of fibytes al number of fibytes al amount of bytes = MS SQL enab	ACB j in the data area s in the data area s in the retention area tes in the retention area

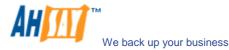


	EnableOracle = Oracle enabled [Y   N] EnableLotusNotes = Lotus Notes enabled [Y   N] EnableLotusDomino = Lotus Domino enabled [Y   N] EnableMySQL = MySQL enabled [Y   N] EnableInFileDelta = In-file Delta enabled [Y   N] EnableShadowCopy = Shadow Copy enabled [Y   N] EnableExchangeMailbox = MS Exchange Mailbox enabled [Y   N] ExchangeMailboxQuota = MS Exchange Mailbox quota Bandwidth = user's bandwidth Notes = user's notes Status = status of user account [ENABLE   SUSPENDED] (added since v.5.2.2.5) RegistrationDate = registation date of user account (added since v.5.2.2.5)
Exa	mple:
	http://BACKUP_SERVER/obs/api/ListUsers.do?SysUser=system&SysPwd=system

# 18.8 Getting User Information

The following table describes all information required to invoke the [Get User] API to get a user's account information.

http://BACKUP S	SERVER/obc/opi/C	at lear do	
arameters:	SERVER/ODS/api/C	<u>1000000000000000000000000000000000000</u>	
Key	Value	Descriptions	
SysUser	String	OBS's System Username	
SysPwd	String	OBS's System password	
LoginName	String	The user's login name	
eturn Value:			
If successful, retu	irns		
DataF Retair Uncor Enabl Enabl Enabl Excha UserF Regis	ile="1234" DataSiz File="1234" Retain npressedSize="55 eMSSQL="Y" Enable eOracle="Y" Enable leLotusDomino="Y" eInFileDelta="Y" E ungeMailboxquota= lome="C:\Program trationDate="11852	nSize="1234" 837504" bleMSExchange="Y"	
<contact name='&lt;br&gt;&lt;/user&gt;&lt;br&gt;If there is an erro&lt;/th&gt;&lt;th&gt;"John (Email2)" err&lt;/th&gt;&lt;th&gt;nail="john@yourcompany.com" /&gt;&lt;br&gt;nail="johnmy@yourcompany.com" /&gt;&lt;br&gt;sERROR_MESSAGE%&lt;/err&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;Contact name=&lt;br&gt;&lt;/user&gt;&lt;br&gt;If there is an erro&lt;br&gt;Where&lt;br&gt;LoginName =&lt;br&gt;Alias = user' s<br="">UserType = U<td>"John (Email2)" en r, it returns <err>% - login name</err></td><th>nail="johnmy@yourcompany.com" /&gt; pERROR_MESSAGE% TRIAL ]</th><td></td></contact>	"John (Email2)" en r, it returns <err>% - login name</err>	nail="johnmy@yourcompany.com" /> pERROR_MESSAGE% TRIAL ]	
<contact name="&lt;br"> If there is an erro Where LoginName = Alias = user's UserType = u ClientType = Status = statu Quota = quot Timezone = u</contact>	"John (Email2)" en r, it returns <err>% = login name s alias user type [ PAID   T client type [ OBM ] us of user account</err>	nail="johnmy@yourcompany.com" /> pERROR_MESSAGE% TRIAL ]	
<contact name="&lt;br"> If there is an erro Where LoginName = Alias = user's UserType = t ClientType = Status = statu Quota = quot Timezone = t Language = to DataFile = to DataSize = to RetainFile = 1 RetainSize =</contact>	"John (Email2)" err r, it returns <err>% login name s alias user type [ PAID   T client type [ PAID   T client type [ OBM   us of user account a in bytes user's timezone user's language tal number of files i otal amount of byte total amount of byte</err>	nail="johnmy@yourcompany.com" /> SERROR_MESSAGE% "RIAL ] ACB ] [ENABLE   SUSPENDED] (added since v.5.2.2.5) in the data area s in the data area s in the retention area tes in the retention area tes in the retention area	
<contact name="&lt;br"> If there is an erro Where LoginName = Alias = user's UserType = U ClientType = Status = statu Quota = quot Timezone = U DataFile = to DataFile = to DataSize = tu RetainSize = Uncompress EnableMSSC EnableMSSC</contact>	"John (Email2)" err r, it returns <err>% login name s alias user type [ PAID   T client type [ OBM   us of user account a in bytes user's timezone user's language tal number of files i otal amount of byte total amount of byte tot</err>	hail="johnmy@yourcompany.com" /> SERROR_MESSAGE% "RIAL ] ACB ] [ENABLE   SUSPENDED] (added since v.5.2.2.5) in the data area s in the data area s in the retention area tes in the retention area tes in the retention area unt (bytes) of uncompressed file size in data area led [Y   N ] ange enabled [Y   N ] [Y   N ]	
<contact name="&lt;br"> If there is an erro Where LoginName = Alias = user's UserType = U ClientType = Status = statu Quota = quot Timezone = U Language = U DataFile = to DataFile = to DataFile = to RetainFile = to RetainFile = to RetainFile = to RetainFile = to BataSize = Uncompress EnableMSSC EnableMSSC EnableMSSC EnableLotusI EnableLotusI EnableMFile[ EnableMSAC</contact>	"John (Email2)" err r, it returns <err>% login name s alias user type [ PAID   T client type [ OBM   us of user account a in bytes user's timezone user's language total amount of byte total amount of byte total amount of byte total amount of byte edSize = total amo DL = MS SQL enabled Notes = Lotus Note Domino = Lotus Dc L = MySQL enabled Delta = In-file Delta byte opy = Shadow</err>	hail="johnmy@yourcompany.com" /> SERROR_MESSAGE% [RIAL] [ACB] [ENABLE   SUSPENDED] (added since v.5.2.2.5) in the data area s in the data area s in the retention area tes in the retention area unt (bytes) of uncompressed file size in data area led [Y   N] hange enabled [Y   N] is enabled [Y   N] bit [Y   N] bit [Y   N] bit [Y   N]	



 UserHome = the directory where OBS stores the backup files and backup logs (added since v.5.2.2.5) RegistrationDate = registation date of user account (added since v.5.2.2.5) MailboxUsage = the number of mailboxes used (added since v5.2.5.0)

 Example:

 http://BACKUP\_SERVER/obs/api/GetUser.do?SysUser=system&SysPwd=system&LoginName=John

# 18.9 Adding a Backup Set

The following table describes all information required to invoke the [Add Backup Set] API to add a new backup set.

URL:	JRL:				
http://BACKUP S	SERVER/obs/api/Ac	IdBackupSet.do			
Parameters:	Parameters:				
Key	Value	Descriptions			
SysUser	String	OBS's System Username			
SysPwd	String	OBS's System password			
LoginName	String	The user's login name			
Return Value:					
If successful, retu	ırns				
<backupset 1122260638375"="" id="&lt;/td&gt;&lt;td colspan=3&gt;&lt;BackupSet ID="></backupset>					
If there is an erro	r, returns <err>%EF</err>	RROR_MESSAGE%			
where ID = new bac	where ID = new backup set ID				
Example:					
http://BACKUP_S	SERVER/obs/api/Ac	ldBackupSet.do?SysUser=system&SysPwd=system&LoginName=John			

### 18.10 Deleting a Backup Set

The following table describes all information required to invoke the [Delete Backup Set] API to delete a backup set for a particular user.

UR	URL:				
	http://BACKUP SER	VER/obs/api/D	veleteBackupSet.do		
Par	ameters:				
	Key	Value	Descriptions		
	SysUser	String	OBS's System Username		
	SysPwd	String	OBS's System password		
	LoginName	String	The user's login name		
	BackupSetID	String	The ID of the backup set to delete		
Ret	urn Value:				
	If successful, returns <ok></ok> If there is an error, returns <err>%ERROR_MESSAGE%</err>				
Exa	Example:				
	http://BACKUP_SERVER/obs/api/DeleteBackupSet.do?SysUser=system&SysPwd=system&LoginName=John&BackupSetID=11222606 38375				

## 18.11 Listing Backup Sets

The following table describes all information required to invoke the [List Backup Sets] API to list all the backup sets for a particular user.

UR	URL:				
	http://BACKUP_SERVER/obs/api/ListBackupSets.do				
Par	Parameters:				
	Key	Value	Descriptions		
	SysUser	String	OBS's System Username		
	SysPwd	String	OBS's System password		
	LoginName	String	The user's login name		



#### **Return Value:**

If successful, returns
<backupsets></backupsets>
<backupset id="1099561060222" name="BackupSet-1" type="File"></backupset>
<backupset id="1099561060223" name="BackupSet-2" type="Microsoft SQL Server"></backupset>
<backupset id="1099561060224" name="BackupSet-3" type="Oracle Database Server"></backupset>
<backupset id="1099561060225" name="BackupSet-4" type="Microsoft Exchange Server"></backupset>
<backupset id="1099561060226" name="BackupSet-5" type="Lotus Domino"></backupset>
<backupset id="1099561060227" name="BackupSet-6" type="Lotus Notes"></backupset>
<backupset id="1099561060228" name="BackupSet-7" type="MySQL"></backupset>
<backupset id="1099561060229" name="BackupSet-8" type="System State"></backupset>
<backupset id="1099561060230" name="BackupSet-9" type=" Microsoft Exchange Mail"></backupset>
<backupset id="1099561060231" name="BackupSet-10" type=" Microsoft Exchange Mail (MAPI)"></backupset>
If there is an error, returns <err>%ERROR_MESSAGE%</err>
where
ID = backup set ID
Name = backup set name
Type = backup set type
xample:
http://BACKUP_SERVER/obs/api/ListBackupSets.do?SysUser=system&SysPwd=system&LoginName=John

# 18.12 Getting a Backup Set

The following table describes all information required to invoke the [Get Backup Set] API to get a backup set.

URL:			
http://BACKUP_SERVER/obs/api/GetBackupSet.do			
arameters:			
Key	Value	Descriptions	
,	String	OBS's System Username	
SysPwd	String	OBS's System password	
LoginName	String	The user's login name	
BackupSetID	String	The backup set ID	
Return Value:			
SysUser         String         OBS's System Username           SysPwd         String         OBS's System password           LoginName         String         The user's login name			



	Mon="N" Tue="N" Wed="N" Thu="N" Fri="N" Sat="N" Day="1" Week="1" Month="1" Year="2007"/> <setting datetype="EXACT" day="32" fri="N" id="1168669484781" mon="N" month="1" name="Retention Policy-4" numofcopiestokeep="4" sat="N" sun="N" thu="N" tue="N" type="QUARTERLY" wed="N" week="1" year="2007"></setting> <setting datetype="EXACT" day="32" fri="N" id="1168669493468" month="1" name="Retention Policy-5" numofcopiestokeep="7" sat="N" sun="N" thu="N" tue="N" type="YEARLY" wed="N" week="1" year="2007"></setting> <setting datetype="EXACT" day="32" fri="N" id="1168669493468" mon="N" month="1" name="Retention Policy-5" numofcopiestokeep="7" sat="N" sun="N" thu="N" tue="N" type="YEARLY" wed="N" week="1" year="2007"></setting> <setting datetype="EXACT" day="32" fri="N" id="1168669493468" mon="N" month="1" name="Retention Policy-6" numofcopiestokeep="7" sat="N" sun="N" thu="N" tue="N" type="YEARLY" wed="N" week="1" year="2007"></setting> <setting datetype="EXACT" day="25" fri="N" id="1168669503984" mon="N" month="1" name="Retention Policy-6" numofcopiestokeep="7" sat="N" sun="N" thu="N" tue="N" type="CUSTOM" wed="N" week="1" year="2007"></setting>
	<prebackupcommand id="1168669311468" name="Pre-backup Command-1" path="pre-command.bat" workingdir="D:\"></prebackupcommand> <postbackupcommand id="1168669328625" name="Post-backup Command-1" path="post-command.bat" workingdir="D:\"></postbackupcommand>
	<extralocalbackup backupto="C:\LocalBackup" enabled="Y" setlocalcopypermission="N" skipoffsitebackup="N" zip="N"></extralocalbackup> <deltaweeklyschedule fri="" mon="" sat="D" sun="" thu="" tue="" wed=""></deltaweeklyschedule> <deltamonthlyschedule <br="" apr="F" criteria="Friday" date="1" feb="F" jan="F" jun="F" mar="F" may="F" occurrenace="First">JUL="F" AUG="F" SEP="F" OCT="F" NOV="F" DEC="F"/&gt;</deltamonthlyschedule>
	If there is an error, returns <err>[UserCacheManager] User 'Johnny' not found.</err> <err>Backup Set for ID='1065821983563' not found</err>
	where under Tag <backup set=""></backup>
	ID = backup set ID
	Name = backup set name TransferBlockSize = block size for transfer
	FollowSymbolicLink = follow symbolic link (Linux only)
	Type = backup set type AdminUsername = administrator user name
	AdminPassword = administrator password
	WorkingDir = temporary working directory OracleSID = Oracle SID setting
	Port = Oracle port number
	Host = Oracle hostname
	LogRetentionDays = retention day logging NotesINI = path location of notes.ini file
	BackupSystemState = whether to backup system state
	LanDomain = LAN domain name LanUsername = LAN user name
	LanPassword = LAN password
	LastBackupRun = time of last backup run
	LastBackupAccess = time of last backup EnableInFileDelta = enabling in-file delta feature
	MinDeltaFileSize = minimum delta file size setting field
	DeltaBlockSize = delta block size setting field MaxNumOfDelta = maximum delta number setting field
	MaxNulloiDeita – maximum delta ratio setting field
	EnableShadowCopy = enabling shadow copy feature field
	EnableOfflineBackup = enabling offline copy feature filed EnableLogoutBackup = enabling logout backup feature field
	FullBackup = enabling full backup field
	LastBackupCompleted = time when the last backup was completed BackupIntervalDay = Offline backup day interval
	BackupIntervalHour = Offline backup hour interval
	LogoutType = unused OfflineNotificiationDay = Offline backup email reminder days
	DeleteTempFile = Remove temporary files after backup
	SqlServer = SQL server hostname DefaultDeltaType = Default in-file delta type
	TotalUncompressedDataSize = Total uncompressed size in bytes of the data area
	NumberOfFiles = Total number of files in the data area
	TotalBackupSetSize = Total compressed size in bytes of the data area TotalBSetRetainUncompress = Total uncompressed size in bytes of the retention area
	TotalBSetRetainFileNo = Total number of files in the retention area
	TotalBsetRetainFileSize = Total compressed size in bytes of the retention area ScheduleHost = Computer name of this backup set that the scheduler will use to determine whether to run
	Tag < SelectedSource >
	SelectedSource = selected sources for backup
	Tag < DeseletedSource > DeseletedSource = deselected sources for backup
1	Tag < DailySchedule >
	ID = schedule ID Name = schedule name
1	Hour = time setting for such schedule
	Minute = time setting for such schedule Duration = how long to run. Use -1 for "Stop on completion"
1	BackupType = Backup set type
	Tag < WeeklySchedule >
<u> </u>	ID = schedule ID



-	Sun = enable field
	Mon = enable field
	Fue = enable field Ned -enable field
	Thu = enable field
	ri = enable field
5	Sat = enable field
F	lour = time setting for such schedule
	/inute = time setting for such schedule
	Duration = how long to run. Use -1 for "Stop on completion"
	BackupType = Backup set type
	< MonthSchedule > D = schedule ID
	Vame = schedule name
	Date = exact day of the month. When "0" use occurrence and criteria.
	Dccurrence= occurrence to run e.g. First, Second, Third, Forth Last
	Criteria = day to run e.g. Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday
	Hour = time setting for such schedule
	Ainute = time setting for such schedule
	Duration = how long to run. Use -1 for "Stop on completion"
	JackupType = Backup set type
	< CustomSchedule > D = schedule ID
	Vame = schedule name
	BackupType = Backup set type
	Jate = the date to run this schedule
	-lour = time setting for such schedule
	/linute = time setting for such schedule
	Duration = how long to run. Use -1 for "Stop on completion"
	D = filter ID
	Name = filter name Fype = filter type
	TopDir = the top most directory to apply this filter
	opuin – die do most die de die de die de die de die die die
0	Dnly = filter mode
	ApplyToDir = applying to such directory
A	ApplyToFile = applying to such file
	< Pattern>
	Pattern = the filter pattern to apply
	< RetentionPolicy >
	Jnit= type for the retention policy, by JOB, DAYS, or CUSTOMIZE Period= days for the policy
	< Retention Setting >
	D = retention ID
	DverlapSensitive = enable feature setting
Tag	< Setting>
	D = retention ID
	Name = retention name
	Type = retention type. Allowed values are [DAILY   WEEKLY   MONTHLY   QUARTERLY   YEARLY   CUSTOM
	NumOfCopiesToKeep = number of copies to keep
	DateType = normally empty. Use "EXACT" when the date is known. Sun Mon Tue, Wed Thu Fri, Sat – days enabled
	Sun, Mon, Tue, Wed, Thu, Fri, Sat = days enabled Day, Week, Month, Year = date enabled
	< PreBackupCommand>
	D = pre-command ID
	Jame = pre-command name
F	Path = path for such pre command
	VorkingDir = directory for such pre-command
	< PostBackupCommand >
	D = post command ID
	Name = post command name
	Path = path for such post command NorkingDir = directory for such post command
	< ExtraLocalBackup >
	ENABLED = enable "Extra Local Copy" feature field
	Tip = zip the copied file feature
	sackupTo = location to save extra copy
S	SkipOffsiteBackup = whether to skip off-site backup
	SetLocalCopyPermission = set local copy permission
	< DeltaWeeklySchedule>
	Sun, Mon, Tue, Wed, Thu, Fri, Sat = advance delta weekly schedule enabled. [I D F]
	< DeltaMonthlySchedule>
	Date = exact day of the month. When "0" use occurrence and criteria. Dccurrence= occurrence to run e.g. First, Second, Third, Forth Last
	Criteria = day to run e.g. Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday
	an, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec = advance monthly schedule enabled. [   D   F ]
mple	
	//BACKUP_SERVER/obs/api/GetBackupSet.do?SysUser=system&SysPwd=system&LoginName=John&BackupSetID=10770970



## 18.13 Updating a Backup Set

The following table describes all information required to invoke the [Update Backup Set] API to update a backup set. Note, use [Get Backup Set] API above to retrieve a backup set and save it as an xml file; modify the file as you need, and post it as a content using parameter name "Profile" when calling [Update Backup Set] API

URL	.:		
	http://BACKUP_SE	RVER/obs/api/U	pdateBackupSet.do
Para	ameters:		
	Key	Value	Descriptions
	SysUser	String	OBS's System Username
	SysPwd	String	OBS's System password
	LoginName	String	The user's login name
	Profile	String	The whole content of backup set in XML format posted up when calling this API
Retu	urn Value:	•	
	If successful, returns <ok></ok> If there is an error, returns <err>%ERROR_MESSAGE%</err>		
Exa	Example:		
	http://BACKUP SE	RVER/obs/api/U	lpdateBackupSet.do?SysUser=system&SysPwd=system&LoginName=John

### 18.14 Listing Backup Jobs

The following table describes all information required to invoke the [List Backup Jobs] API to get a list of all backup jobs for all backup sets.

URL:				
http://BACKUP_S	http://BACKUP_SERVER/obs/api/ListBackupJobs.do			
Parameters:				
Key	Key Value Descriptions			
SysUser	String	OBS's System Username		
SysPwd	String	OBS's System password		
LoginName	String	The user's login name		
Return Value:	•			
<backupsets> <backupset <br="" id="/&lt;br&gt;&lt;BackupJob ID="><backupjob <br="" id="/&lt;br&gt;&lt;BackupJob ID="></backupjob></backupset>  </backupsets>	<backupset id="1121746638656"> <backupjob id="2005-12-29-12-00-00"></backupjob> <backupjob id="2005-12-30-12-00-00"></backupjob> <backupjob id="2005-12-31-12-00-00"></backupjob> </backupset> 			
ID = backup s Tag <backupjob></backupjob>	Where under Tag <backupset> ID = backup set ID Tag <backupjob> ID = backup job ID</backupjob></backupset>			
Example:	Example:			
http://BACKUP_S	http://BACKUP_SERVER/obs/api/ListBackupJobs.do?SysUser=system&SysPwd=system&LoginName=John			

#### 18.15 Listing Backup Job Status

The following table describes all information required to invoke the [List Backup Job Status] API to get a list of all backup jobs for all backup sets.

URL:				
http://BACKUP	http://BACKUP_SERVER/obs/api/ListBackupJobStatus.do			
Parameters:	Parameters:			
Key	Value	Descriptions		
SysUser	String	OBS's System Username		



	1			
	SysPwd	String	OBS's System password	
	LoginName	String	The user's login name. Optional argument, if specified, only the backup jobs of the user is displayed otherwise all backup jobs are displayed.	
	BackupDate	String	A date in YYYY-MM-DD format	
Retu	urn Value:	•		
	If successful, returns <backupjobs backupd<="" td=""><td>ate="2007-0</td><td>11-02" &gt;</td></backupjobs>	ate="2007-0	11-02" >	
	BackupJobStatus="BS <backupjob <br="" endtime="2007-01-02 02:01:04" id="2007-&lt;/td&gt;&lt;td&gt;_STOP_SU0&lt;br&gt;01-02-16-45&lt;/td&gt;&lt;td&gt;-01" loginname="demo" starttime="2007-01-02 02:01:01">CCESS" BackupSetID="1190692945178" /&gt; -45" LoginName="demo" StartTime="2007-01-02 16:45:45" EndTime="2007-01-02 16:45:48" CCESS" BackupSetID="1190692945178" /&gt;</backupjob>			
		urns <err>%</err>	ERROR_MESSAGE%	
	where under			
	Tag <backupjobs></backupjobs>	- 6 1 1		
	BackupDate = date Tag <backupjob></backupjob>	от раскир		
	ID = backup job ID			
	LoginName = user	name		
	StartTime = job star			
	EndTime = job end			
			f the backup job as follow:	
	1. BS_STOP_S	UCCESS = ba	ackup completed successfully	
	<ol><li>BS_STOP_B</li></ol>	Y_SYSTEM_E	RROR = backup stopped due to system error	
			R = backup stopped by scheduler	
			ackup stopped by user	
			<pre>KCEEDED = backup stopped due to quota exceeded</pre>	
			H_ERROR = backup completed with errors	
			TH_WARNING = backup completed with warnings	
			UP = backup missed	
		ckup in prog		
	<ol> <li>Others = other client errors not defined above.</li> <li>BackupSetID = backup set ID (added since v5.2.5.0)</li> </ol>			
Exa	Example:			
		R/obs/ani/	istBackupJobStatus.do?SysUser=system&SysPwd=system&LoginName=John&BackupDate=2007-	
	01-08	-11/005/apl/L	isibaokupsobotatus.uo: 0ysoset=systemaoysr wu=systemaboyimatme=soffiaDatkupDate=2007-	
	0100			

# 18.16 Getting Backup Job Report

The following table describes all information required to invoke the [Get Backup Job Report] API to get a backup job status.

URL:			
http://BACKUP_SE	http://BACKUP_SERVER/obs/api/GetBackupJobReport.do		
Parameters:	arameters:		
Key	Value	Descriptions	
SysUser	String	OBS's System Username	
SysPwd	String	OBS's System password	
LoginName	String	The user's login name	
BackupSetID	String	A backup set ID	
BackupJobID	String	A backup job ID	
Return Value:	•		
EndTim NumOfE NumOfD NumOfD NumOff NumOff <info timestam<br=""> <warn timestam<br=""> <error timesta<br=""> <newfile lastm<="" th=""><th><pre>ne="2005-07- trorEntries lewFiles="1" JpdatedFiles levtedFiles lovedFiles=" p="2005-12-3 p="2005-12-3 mp="2005-12-3 odified="2005-12-3</pre></th><th><pre>12-11-20" StartTime=" 2005-07-19 12:11:20" 19 12:21:20" JobStatus="BS_STOP_SUCCESS" ="0" NumOfWarnEntries="0" TotalNewFilesSize="37487104" ="1" TotalUpdatedFilesSize="37487104" ="1" TotalDeletedFilesSize="37487104" 1" TotalMovedFilesSize="37487104" &gt; 31 12:59:59" Message="??????" /&gt; 31 12:59:59" Message="??????" /&gt; 31 12:59:59" Message="?????" /&gt; 31 12:59:59" Message="?????" /&gt; 35-12-31 12:59:59" Name="C:\abc.doc" tModified="2005-12-31 12:59:59"/&gt;</pre></th></newfile></error></warn></info>	<pre>ne="2005-07- trorEntries lewFiles="1" JpdatedFiles levtedFiles lovedFiles=" p="2005-12-3 p="2005-12-3 mp="2005-12-3 odified="2005-12-3</pre>	<pre>12-11-20" StartTime=" 2005-07-19 12:11:20" 19 12:21:20" JobStatus="BS_STOP_SUCCESS" ="0" NumOfWarnEntries="0" TotalNewFilesSize="37487104" ="1" TotalUpdatedFilesSize="37487104" ="1" TotalDeletedFilesSize="37487104" 1" TotalMovedFilesSize="37487104" &gt; 31 12:59:59" Message="??????" /&gt; 31 12:59:59" Message="??????" /&gt; 31 12:59:59" Message="?????" /&gt; 31 12:59:59" Message="?????" /&gt; 35-12-31 12:59:59" Name="C:\abc.doc" tModified="2005-12-31 12:59:59"/&gt;</pre>	



<pre><updatedfile <="" lastmodified="2005-12-31 12:59:59" name="C:\abc.doc" pre=""></updatedfile></pre>
FileSize="374 LastModified="2005-12-31 12:59:59"/>
<pre></pre> <pre>&lt;</pre>
FileSize="374 LastModified="2005-12-31 12:59:59"/>
FILESIZE="3/4 Lastmodilled="2005-12-31 12-59-59"/>
<pre><movedfile <="" fromfile="C:\abc.doc" lastmodified="2005-12-31 12:59:59" pre="" tofile="C:\abc.doc"></movedfile></pre>
FileSize="374 LastModified="2005-12-31 12:59:59"/>
If there is an error, returns <err>%ERROR_MESSAGE%</err>
where under
Tag <backupjob></backupjob>
ID = backup job ID
StartTime = backup job start time
EndTime = backup job end time
JobStatus = status of backup job
NumOfErrorEntries = number of backup job errors
NumOfWarnEntries = number of backup job warnings
NumOfNewFiles = number of new files
TotalNewFilesSize = new files size
NumOfUpdatedFiles = number of updated files
TotalUpdatedFilesSize = updated files size
NumOfDeletedFiles = number of deleted files
TotalDeletedFilesSize = deleted files size
NumOfMovedFiles = number of moved files
TotalMovedFilesSize = move files size
Tag <info>, <warn>, <error></error></warn></info>
TimeStamp = time of this message
Message = message text
Tag <newfile>, <updatedfile>, <deletedfile>, <movedfile></movedfile></deletedfile></updatedfile></newfile>
Name = filename
FileSize = filesize
LastModified = last modified time of such file
Example:
http://BACKUP_SERVER/obs/api/GetBackupJobReport.do?SysUser=system&SysPwd=system&LoginName=john&BackupSetID=11(
78758790&BackupJobID=2007-01-08-16-02-07

# 18.17 Getting Backup Job Report Summary

The following table describes all information required to invoke the [Get Backup Job Report Summary] API to get a backup job status.

URL:					
http://BACKUP_S	http://BACKUP_SERVER/obs/api/GetBackupJobReportSummary.do				
Parameters:	arameters:				
Key	Value	Descriptions			
SysUser	String	OBS's System Username			
SysPwd	String	OBS's System password			
LoginName	String	The user's login name			
BackupSetID	String	A backup set ID			
BackupJobID	String	A backup job ID			
Return Value:	•				
NumOfl NumOfL NumOfL NumOfL	EndTime="2007-01-08 16:02:12" BackupJobStatus="BS_STOP_SUCCESS" NumOfWarnEntries="0" NumOfErrorEntries="0" NumOfUpdatedFiles="10" TotalNewFilesSize="790256" NumOfUpdatedFiles="0" TotalUpdatedFilesSize="0" NumOfDeletedFiles="0" TotalDeletedFilesSize="0" NumOfMovedFiles="0" TotalDevedFilesSize="0" NumOfUpdatedPermissionFiles="0" TotalUpdatedPermissionFilesSize="0"> 				
where under Tag <backupjob> ID = backup jo</backupjob>	If there is an error, returns <err>%ERROR_MESSAGE%</err> where under Tag <backupjob> ID = backup job ID StartTime = backup job start time</backupjob>				
EndTime = ba	ckup job end time	e			



-	
	JobStatus = status of backup job
	NumOfErrorEntries = number of backup job errors
	NumOfWarnEntries = number of backup job warnings
	NumOfNewFiles = number of new files
	TotalNewFilesSize = new files size
	NumOfUpdatedFiles = number of updated files
	TotalUpdatedFilesSize = updated files size
	NumOfDeletedFiles = number of deleted files
	TotalDeletedFilesSize = deleted files size
	NumOfMovedFiles = number of moved files
	TotalMovedFilesSize = move files size
	NumOfUpdatedPermissionFiles = number of updated file permission files (added since v5.2.5.0)
	TotalUpdatedPermissionFilesSize = updated file permission files size (added since v5.2.5.0)
Exa	mple:
	http://BACKUP_SERVER/obs/api/GetBackupJobReportSummary.do?SysUser=system&SysPwd=system&LoginName=john&BackupSetI
	D=1108378758790&Backup.lobID=2007-01-08-16-02-07

# 18.18 Listing Backup Files

The following table describes all information required to invoke the [List Backup Files] API to get all backup files by given a directory.

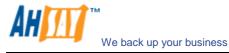
JRL:					
http://BACKUP SE	http://BACKUP_SERVER/obs/api/ListBackupFiles.do				
Parameters:	arameters:				
Key	Value	Descriptions			
SysUser	String	OBS's System Username			
SysPwd	String	OBS's System password			
LoginName	String	The user's login name			
BackupSetID	String	A backup set ID			
BackupJobID	String	A backup job ID			
Path	String	A directory path			
Return Value:					
Backup	OriginalFileSize="187" FileSize="1712" BackupByJob="2005-07-25-17-07-07" InBackupJob="Current" LastModified="1109233592750" /> 				
If there is an error,	returns <err>%E</err>	RROR_MESSAGE%			
OriginalFileSize FileSize = the fi BackupedByJol InBackupJob =	where under Name = name of the file OriginalFileSize = the first size of the file when first uploading FileSize = the file size while doing uploading BackupedByJob = the day when such file uploaded InBackupJob = The file which has been updated LastModified = The time of last modification				
Example:					
http://BACKUP_SE 790&BackupJobID=	http://BACKUP_SERVER/obs/api/ListBackupFiles.do?SysUser=system&SysPwd=system&LoginName=john&BackupSetID=1108378758 790&BackupJobID=2007-001-08-16-02-07&Path=C:\Documents%20and%20Settings\john.my.company.				

## **18.19 Getting User Storage Statistics**

The following table describes all information required to invoke the [Getting User Storage Statistics] API to get a list of storage information for a user.

URL:			
	http://BACKUP_SERVER/obs/api/GetUserStorageStat.do		
Parameters:			
	Key	Value	Descriptions
	SysUser	String	OBS's System Username
	SysPwd	String	OBS's System password
	LoginName	String	The user's login name





turn Value:         If successful, returns <statistics 2005-07"<="" td="" yearmonth='2005-07"&lt;/td&gt;         AvgDtatSize="AvgDtatRawSize ="AvgDtatAne="&lt;br&gt;AvgDtatSize" AvgDtatRawSize = "AvgDtatAne="&lt;br&gt;AvgDtatSize" AvgTotatSize="AvgTotatStorageRawSize="AvgDtatAne="&lt;br&gt;AvgTotatStorageSize="AvgTotatStorageRawSize="AvgTotatStorageNo=" &gt;         &lt;Storage Date='>         &gt;DatatSize="O'UploadRawSize="O'DtatAne="0"         &gt;DatatSize="O'UploadRawSize="O'TotatStorageRawSize="O'TotatStorageNo=" &gt;         <storage date='2005-07"&lt;/td&gt;         &gt;DatatSize="O' dtatane="0">DatatSize="O'DtatAne="0"         &gt;DatatSize="O'DtatAne="0"         &gt;TotatStorageSize="O'DtatAne="0"         &gt;TotatStorageSize="O'DtatAne="0"         &gt;DatatSize="O'DtatAne="0"         &gt;DatatSize="O'DtatAne="0"         &gt;TotatStorageSize="O'DtatAne="0"         &gt;PostStor="O'DtatAne="0"         &gt;PostStorageSize="O'TotatStorageRawSize="O'TotatStorageNo="0" /&gt;         <statistics< td="">         If there is an error, returns <err> <errorset< td="">         YearMonth = month of a year         AvgDtatANe= average size in data area         AvgDtatANe= average size in tetention area         AvgDtatANe= average size in retention area         AvgDtatANe= average unbaced size         AvgDtatANe= average unbaced size         AvgDtatANe= average unumber of fliles in storage</errorset<></err></statistics<></storage></statistics>	YearMonth String Year and month (yyyy-MM)								
<pre> Statistics YearMonth="2005-07" AvgDataNo:="AvgDataNo:=" AvgDataSize="AvgDataNo:=" AvgDataSize="AvgUploadRawSize="AvgUploadNo:=" AvgTotaSize="VolutionadRawSize="AvgUploadNo:=" AvgTotaSize="VolutionadRawSize="AvgUploadNo:=" AvgTotaSize="VolutionadRawSize="AvgUploadNo:=" AvgTotaSize="VolutionadRawSize="VolatNo="0" RetainSize="VolatRawSize="VolatNo="0" RetainSize="VolatRawSize="VolatNo="0" RetainSize="VolatRawSize="VolptadNo="0" RetainSize="VolatRawSize="VolatStorageRawSize="VoltadStorageNo="0"/&gt; </pre> (Statistics) If there is a error, returms  error, wERROR_MESSAGE%  Where under Tag Castatstics = average size in data area AvgDataNo= average size in retention area AvgDataRawSize = average size in retention area AvgDataRawSize = average size in retention area AvgDataRawSize = average uploaded size (in bytes) (added since v5.2.5.0) AvgRetainRawSize = average size in storage AvgUploadRawSize = average size in storage Tag StorageNo = vorage number of files in storage Tag StorageNo = vorage number of tipes in data gate  AvgUploadRawSize = total size in retention area AvgUploadRawSize = total size in retention area AvgUploadNo= average	eturn Value:								
AvgDataSize="AvgDataRawSize="AvgDataNo=" AvgRetainRawSize="AvgDataNo=" AvgTotaSize="AvgDataNo=" AvgTotaSize="Constraints" AvgTotaSize="Constraints" AvgTotaSize="Constraints" DataSize=	If successful, returns								
where under Tag <statistics> YearMonth = month of a year AvgDataSize = average size in data area AvgDataRawSize = average size in data area AvgRetainSize = average size in retention area AvgRetainSize = average size in retention area AvgRetainSize = average size in retention area AvgRetainNo = average uploaded size (in bytes) (added since v5.2.5.0) AvgRetainRawSize = average uploaded size (in bytes) (added since v5.2.5.0) AvgUploadSize = average uploaded size (in bytes) (added since v5.2.5.0) AvgUploadNo = average number of uploaded files AvgUploadNo = average number of uploaded files AvgTotalStorageSize = average size in storage AvgTotalStorageNo = average number of files in storage AvgTotalStorageNo = average number of files in storage Tag <storage> Date = the date of the statistics calculated DataSize = total data size uploaded DataSize = total data size uploaded DataRawSize = total data size uploaded DataRawSize = total size in retention area RetainSize = total size in retention area RetainNo = total number RetainNo = total number in retention area UploadSize = total uploaded size UploadSize = total uploaded size (in bytes) (added since v5.2.5.0) UploadNo = total uploaded size of storage TotalStorageSize = total size of storage TotalStorageSize = total size of storage TotalStorageNize = total s</storage></statistics>	AvgDataSize="" AvgRetainSize= AvgUploadSize= AvgTotalStorage <storage date="&lt;br">DataSize=" RetainSize= UploadSize Storage Date= DataSize=" RetainSize= UploadSize UploadSize TotalStorage</storage>	AvgDataSize="" AvgDataRawSize ="" AvgDataNo="" AvgRetainSize="" AvgRetainRawSize= "" AvgRetainNo="" AvgUploadSize="" AvgUploadRawSize="" AvgUploadNo="" AvgTotalStorageSize="" AvgTotalStorageRawSize="" AvgTotalStorageNo="" > <storage <br="" date="2005-07-25">DataSize="0" DataRawSize="0" DataNo="0" RetainSize="0" RetainRawSize="0" RetainNo="0" UploadSize="0" UploadRawSize="0" UploadNo="0" TotalStorageSize="0" TotalStorageRawSize="0" TotalStorageNo="0" /&gt; <storage <br="" date="2005-07-26">DataSize="0" DataRawSize="0" RetainNo="0" (Storage Date="2005-07-26" DataSize="0" DataRawSize="0" RetainNo="0" RetainSize="0" RetainRawSize="0" RetainNo="0" RetainSize="0" DataRawSize="0" RetainNo="0" AttainSize="0" RetainRawSize="0" RetainNo="0" (Storage Date="2005-07-26" DataSize="0" DataRawSize="0" RetainNo="0" (Storage Date="2005-07-26" DataSize="0" DataRawSize="0" RetainNo="0" (UploadSize="0" DataRawSize="0" RetainNo="0" (Storage Date="2005-07-26" (Storage Date="2005-07-26" (DataSize="0" DataRawSize="0" TotalStorageRawSize="0" TotalStorageNo="0" /&gt; <storage <br="" date="2005-07-26">(DataSize="0" DataRawSize="0" TotalStorageRawSize="0" TotalStorageNo="0" /&gt; <storage <br="" date="2005-07-26">(DataSize="0" TotalStorageRawSize="0" TotalStorageNo="0" /&gt; <storage datarawsize="0" date="0" totalstorageno="0" totalstoragerawsize="0"></storage> <storage date="0" totalstorageno="0" totalstoragerawsize="0"></storage> <statistics></statistics></storage></storage></storage></storage></storage></storage></storage>							
Tag <statistics> YearMonth = month of a year AvgDataSize = average size in data area AvgDataNo = average number of files in data area AvgRetainSize = average size in retention area AvgRetainSize = average size in retention area AvgRetainNo = average number of files in retention area AvgRetainNo = average number of files in retention area AvgRetainNo = average size in retention area AvgRetainNo = average size in retention area AvgRetainNo = average number of files in retention area AvgUploadSize = average uploaded size AvgUploadSize = average uploaded size (in bytes) (added since v5.2.5.0) AvgUploadNo = average number of uploaded files AvgUploadSize = average size in storage AvgUploatSize = average size in storage AvgUploatSize = average size in storage (in bytes) (added since v5.2.5.0) AvgUploatSize = average number of files in storage Tag <storage> Date = the date of the statistics calculated DataSize = total data size uploaded DataSize = total data size uploaded DataSize = total data size uploaded DataNo = total data size uploaded UploadSize = total size in retention area RetainSize = total size in retention area (in bytes) (added since v5.2.5.0) RetainNo = total number RetainSize = total uploaded size UploadSize = total uploaded size (in bytes) (added since v5.2.5.0) UploadNo = total uploaded size (in bytes) (added since v5.2.5.0) TotalStorageRawSize = total size of storage TotalStorageSize = total size of storage TotalStorageNaveSize = total size of storage TotalStorageN</storage></statistics>		eturns <err>%E</err>	RROR_MESSAGE%						
ample:	YearMonth = mo AvgDataSize = a AvgDataRawSiz AvgDataNo = av AvgRetainRize = AvgRetainRawS AvgRetainNo = a AvgUploadSize = AvgUploadRawS AvgUploadNo = AvgUploadRawS AvgUploadNo = AvgTotalStorage AvgTotalStorage AvgTotalStorage AvgTotalStorage AvgTotalStorage AvgTotalStorage avgTotalStorage AvgTotalStorage Etal = the date of DataSize = total DataNo = total d RetainSize = total DataNo = total UploadSize = total	average size in 6 e = average size erage number c ize = average size ize = average s average number = average uploa Size = average uploa Size = average average number Size = average RawSize = average RawSize = average iNo = average r of the statistics - data size uploa total data size uploa total data size uploa total data size u at number al size in retentii = total size in reter al uploaded num = total size of vSize = total size	e in data area (in bytes) (added since v5.2.5.0) of files in data area n retention area ize in retention area (in bytes) (added since v5.2.5.0) r of files in retention area aded size uploaded size (in bytes) (added since v5.2.5.0) er of uploaded files size in storage trage size in storage (in bytes) (added since v5.2.5.0) number of files in storage calculated ded uploaded (in bytes) (added since v5.2.5.0) on area tention area (in bytes) (added since v5.2.5.0) ntion area e d size (in bytes) (added since v5.2.5.0) ber storage te of storage (in bytes) (added since v5.2.5.0)						
		= total storage i	number						

#### 18.20 Listing User Storage

The following table describes all information required to invoke the [List Users Storage] API to get a list of storage information for all users available within OBS.

UR	JRL:					
	http://BACKUP_S	ERVER/obs/api/L	istUsersStorage.do			
Par	ameters:					
	Key	Value	Descriptions			
	SysUser	String	OBS's System Username			
	SysPwd	String	OBS's System password			
Ret	urn Value:	<u>.</u>				
	If successful, return	rns				
	<ul> <li><users></users></li> <li><users></users></li> <li><user <="" alias="" li="" loginname="john" quota="" usertype=""> <li>EnableMSSQL="Y" EnableMSExchange="Y"</li> <li>EnableCoracle="Y" EnableMSSQL="Y"</li> <li>EnableLotusDomino="Y" EnableMySQL="Y"</li> <li>EnableInFileDelta="Y" EnableShadowCopy="Y"</li> </user></li></ul>					



	EnableExchangeMailbox=Y ExchangeMailboxQuota=10
	DataSize="1234" DataFile="1234"
	RetainSize="1234" RetainFile="1234"
	Status="SUSPENDED"
	ClientType="OBM" Language="en" >
	<contact email="john@yourcompany.com" name="John (Email1)"></contact>
	<contact email=" johnmy@yourcompany.com " name="John (Email2)"></contact>
	If there is an error, returns <err>%ERROR_MESSAGE%</err>
	Where
	LoginName = login name
	Alias = user's alias
	UserType = user type [ PAID   TRIAL ]
	Quota = quota in bytes
	Language = user's language
	EnableMSSQL = MS SQL enabled [ Y   N ]
	EnableMSExchange = MS Exchange enabled [ Y   N ]
	EnableOracle = Oracle enabled [ Y   N ]
	EnableLotusNotes = Lotus Notes enabled [ Y   N ]
	EnableLotusDomino = Lotus Domino enabled [ Y   N ]
	EnableMySQL = MySQL enabled [ Y   N ]
	EnableInFileDelta = In-file Delta enabled [ Y   N ]
	EnableShadowCopy = Shadow Copy enabled [ Y   N ]
	EnableExchangeMailbox = MS Exchange Mailbox enabled [ Y   N ]
	ExchangeMailboxQuota = MS Exchange Mailbox quota
	DataFile = total number of files in the data area
	DataSize = total amount of bytes in the data area
	RetainFile = total number of files in the retention area
	RetainSize = total amount of bytes in the retention area
	Status = status of user account [ENABLE   SUSPENDED] (added since v.5.2.2.5)
	ClientType = client type [ OBM   ACB ]
Exar	nple:
	http://BACKUP_SERVER/obs/api/ListUsersStorage.do?SysUser=system&SysPwd=system
LI	

## 18.21 Get License

The following table describes all information required to invoke the [List License] API to get version of OBS, used and unused licenses available within OBS. (added since v5.2.5.0)

URI	_:							
	http://BACKUP SERVER	R/obs/api/Ge	tLicense.do					
Par	ameters:							
	Key         Value         Descriptions           SysUser         String         OBS's System Username           SysPwd         String         OBS's System password           eturn Value:         If successful, returns <license <="" expirydate="Unlimited" obsversion="5.2.4.3" productname="Offsite Backup Suite, OEM Edition" td="">           SupportExpiryDate="2008/10/31" MaxQuota="Unlimited"&gt;<obm available="498" quota="500" used="2"></obm><acb available="498" quota="500" used="1"></acb><acb availabl<="" available="500" quota="500" th=""></acb></license>							
	SysPwd	String	OBS's System password					
Ret	urn Value:	•	•					
	Available="500" Used="0" Quota="500" Available="5 Used="1"/> <mysql quot<br="">Quota="300" Available="2 Available="499" Used="1"</mysql>	" AcbUsedC 500" Used=" ta="Unlimite 299" Used=" "/> <th>ObmUsers="0"/&gt;<msexchange available="499" quota="500" used="1"></msexchange><msexchangemail "0"/&gt;<mssql available="299" quota="300" used="1"></mssql><oracle <br="" available="499" quota="500">ed" Available="Unlimited"/&gt;<lotusdomino available="499" quota="500" used="1"></lotusdomino><lotusnotes "1"/&gt;<infiledelta available="499" quota="500" used="1"></infiledelta><volumeshadowcopy <="" quota="500" th=""></volumeshadowcopy></lotusnotes </oracle></msexchangemail </th>	ObmUsers="0"/> <msexchange available="499" quota="500" used="1"></msexchange> <msexchangemail "0"/&gt;<mssql available="299" quota="300" used="1"></mssql><oracle <br="" available="499" quota="500">ed" Available="Unlimited"/&gt;<lotusdomino available="499" quota="500" used="1"></lotusdomino><lotusnotes "1"/&gt;<infiledelta available="499" quota="500" used="1"></infiledelta><volumeshadowcopy <="" quota="500" th=""></volumeshadowcopy></lotusnotes </oracle></msexchangemail 					
	ProductName = produ ObsVersion = version ExpiryDate = expiry da SupportExpiryDate = : MaxQuota = maximur Quota = quota Available = unused qu Used = used quota	of OBS ate of OBS support exp m quota of C uota = number of xchange Br	iry date of OBS DBS ACB users which used the quota of OBM users ick level module					



	MSSQL = MSSQL module OracleUsers = Oracle module MySQL = MySQL module LotusDomino = Lotus Domino module LotusNotes = Lotus Notes module InFileDelta = In-file delta module
	VolumeShadowCopy = Volume shadow copy module
Exa	ample:
	http://BACKUP_SERVER/obs/api/GetLicense.do?SvsUser=svstem&SvsPwd=svstem

#### **18.22 Get Replication Mode**

The following table describes all information required to invoke the [List Replication Mode] API to get the mode of replication available within OBS. (added since v5.2.5.0)

URL:							
http://BACKUP	SERVER/obs/api/G	SetReplicationMode.do					
Parameters:	arameters:						
Key	Value	Descriptions					
SysUser	String	OBS's System Username					
SysPwd	String	OBS's System password					
Return Value:	•						
Or <replication m<br="">Or <replication m<="" th=""><th>ode="SYNC" File="C ode="LOGGING" File</th><td>="D:\Test-Data\obs52\user\kwong\files\1194504073875\Current\0x5f\0x3d\0xd2\0xc3\1103301195"/&gt; D:\Test-Data\obs52\user\kwong\files\1194504073875\Current\0x5f\0x3d\0xd2\0xc3\1103301195"/&gt; e="D:\Test-Data\obs52\system\\ogfiles\log0001.alf"/&gt; RROR_MESSAGE%</td></replication></replication>	ode="SYNC" File="C ode="LOGGING" File	="D:\Test-Data\obs52\user\kwong\files\1194504073875\Current\0x5f\0x3d\0xd2\0xc3\1103301195"/> D:\Test-Data\obs52\user\kwong\files\1194504073875\Current\0x5f\0x3d\0xd2\0xc3\1103301195"/> e="D:\Test-Data\obs52\system\\ogfiles\log0001.alf"/> RROR_MESSAGE%					
1. DIS 2. LO 3. UN 4. SY	de of replication as f ABLED = disabled r GGING = logging mc SYNC = un-synchror NC = synchronizatior nt replicating file	eplication ode nization mode					
Example:							
http://BACKUP	SERVER/obs/api/G	SetReplicationMode.do?SysUser=system&SysPwd=system					

#### 18.23 Send Forgot Password Email

The following table describes all information required to invoke the [Send Forgot Password Email] API to invoke the sending forgot password email operation in OBS. (added since v5.2.5.0)

UR	JRL:							
	http://BACKUP_SE	ERVER/obs/api/S	endForgotPasswordEmail.do					
Par	ameters:							
	Key	Value	Descriptions					
	SysUser	String	OBS's System Username					
	SysPwd	String	OBS's System password					
	LoginName String Login name of the user							
Ret	urn Value:	·						
	If successful, returns <reply><success></success></reply> If there is an error, returns <err>%ERROR_MESSAGE%</err>							
Exa	Example:							
	http://BACKUP_SERVER/obs/api/SendForgotPasswordEmail.do?SysUser=system&SysPwd=system&LoginName=test							

#### 18.24 Additional APIs

If you need additional APIs to automate your business workflow, please feel free to let us know.



i.

### **19 Frequently Asked Questions**

The chapter contains a list of frequently asked questions

#### 19.1 How to backup OBS?

The best method to backup an OBS is using the replication module. It performs a near real time replication of OBS and it is not necessary to shutdown the backup services when backing up OBS.

If you want to backup the complete OBS to tape, simply backup the following directories:

- The program directory (default directory is shown below)
  - a. Windows "C:\Program Files\Ahsay Offsite Backup Server"
  - b. Linux "/usr/local/obs"
  - c. Mac OS X "/Applications/OBS" and "/System/Library/StartupItems" or "/Library/StartupItems" (for Tiger or later)

This directory contains relatively static data. You can backup this directory easily using any CD/DVD burning software available in the market.

- ii. The [System Home] directory in OBS (this can be found in the [Manage System] -> [System Home] entry after you have logged onto the administrative interface of OBS)
- All [User Homes] directories in OBS (this can be found in the [Manage System] -> [User Homes] entries after you have logged onto the administrative interface of OBS)

Both [System Home] and [User Homes] directories contains dynamic data. To ensure that you have a consistent image of all files within this directory, please shutdown the backup service (or at least make sure backup activities are not very active) when backing them up.

#### 19.2 How can I rebuild an OBS server from scratch?

To rebuild an OBS from backup, please do this:

- i. Restore the program directory (the default location is shown below)
  - d. Windows "C:\Program Files\Ahsay Offsite Backup Server"
  - e. Linux "/usr/local/obs"
  - f. Mac OS X "/Applications/OBS" and "/System/Library/StartupItems" or "/Library/StartupItems" (for Tiger or later)
- ii. Restore the [System Home] directory (back to its original directory if possible)
- iii. Restore all [User Homes] directories (back to their original directories if possible)
- iv. If you have restored the [System Home] directory or any of the [User Homes] directories to another directory (instead of the original directory), please open
  - g. Windows "C:\Program Files\Ahsay Offsite Backup Server\conf\obs.xml"
  - h. Linux "/usr/local/obs/config/obs.xml"
  - i. Mac OS X "/Applications/OBS/config/obs.xml"

and modify the <system-home> and/or <user-home> parameters within the [obs.xml] file to



reflect the correct paths for these directories.

- v. (for Windows) Run [C:\Program Files\Ahsay Offsite Backup Server\bin\Install-Service.bat] to install OBS as Windows services.
- vi. Startup the backup services

#### **19.3** How can I relocate users between different user homes?

Assuming you want to relocate a user from an old drive to a new drive (e.g. from D:\User to E:\User)

- i. Logon to the backup server [Administration Console]
- ii. Under the [Manage System] page, enter another [User Home] (in this case, E:\User) in the [New] textbox provided and press the [Update] button
- Shutdown the backup service from [Control Panel] -> [Administrative Tools] -> [Services] -> [Ahsay Offsite Backup Server]
- iv. Move the user directory to the new user home (e.g. D:\user\xxxx -> E:\User\xxxx)
- v. Startup the backup service from [Control Panel] -> [Administrative Tools] -> [Services] -> [Ahsay Offsite Backup Server]

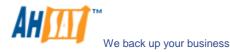
#### 19.4 How do I add new storage to an existing server?

Assuming you want to want a user to a new drive (e.g. from C:\Program Files\Ahsay Offsite Backup Server\user to E:\User)

- i. Logon to the backup server [Administration Console]
- ii. Under the [Manage System] page, enter another [User Home] (in this case, E:\User) in the [New] textbox provided and press the [Update] button
- iii. Shutdown the backup service from [Control Panel] -> [Administrative Tools] -> [Services] -> [OBS]
- iv. Move the user directory to the new user home (e.g. C:\Program Files\Ahsay Offsite Backup Server\user\xxxx -> E:\User\xxxx
- v. 5. Startup the backup service from [Control Panel] -> [Administrative Tools] -> [Services] -> [OBS]

## 19.5 How can I tell which OBM version is being used to run a backup job?

Starting from OBM 5.0.1.5, you can tell which OBM version is being used to run a backup job by inspecting the backup report of a backup job from the [OBS Web User Console] -> [Report] -> [Detailed Report] page.



		Report - Microsoft Internet E	Explorer		
ile E	<u>E</u> dit <u>V</u> ie	ew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp			
<u>d</u> ress	🖉 http	p://localhost/obs/user/showBacku	pReportFull.do?job=200	7-01-09-16-13-27&set=116832963	35203 🗾 🔁 Go
Fu	11	Backup Re	port	Generated at: Tue Jan 09 17:	39:37 GMT+08:00 2007
Bac	kup Jo	b Summary		Backup Job Statisti	cs
	Name	demo		New Files*	0 [0 bytes]
Back	up Set	FileBackupSet-1 (116832963	35203)	Updated Files*	0 [0 bytes]
Back	up Job	2007-01-09 (16:13)	,	Updated Access Permissi	
Job S	Status	Backup finished successful	lly	Deleted Files*	159 [2.2M bytes]
Back	up Time	2007/01/09 16:13 - 2007/01/	-	Moved Files*	0 [0 bytes]
			Backup Loo	* Unit = Number of files [Tot	al file size]
No.	Туре	e Timestamp	Backup Logo		
1	Info	2007/01/09 16:13	Start / Window	s XP (solomon), SolOBM 5.2.1.	01
2	Info	2007/01/09 16:13		Jie-commands	
3	Info	2007/01/09 16:13	Finished runn	ing pre-commands	
4	Info	2007/01/09 16:13	Starting to crea	ate Shadow Copy Set	
5	Info	2007/01/09 16:13	Shadow Copy	Set created successfully	
6	Info	2007/01/09 16:13		post-commands	
7	Info	2007/01/09 16:13		ing post-commands	
3	Info	2007/01/09 16:13	Deleting Shad	low Copy Volume for "C:\"	
			New Files	5	*compressed
No.		Files		Size*	Last Modified
			No new files have bee	en created.	
			Updated Fil	es	*compressed
No.		Files		Size*	Last Modified
			No files have been	updated.	
Done					Second intranet

#### 19.6 How to run OBS under non-root user under Linux/Unix?

OBS contains a set of APIs (Application Programming Interface),

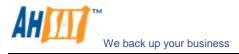
- i. Shutdown OBS by running \$OBS\_HOME/bin/startup.sh
- ii. Setup port forwarding using iptables

(For Linux Kernel 2.4 or above) [root@backup] # iptables -t nat -A PREROUTING -p tcp --dport 80 -j REDIRECT --to-port 9080 [root@backup] # iptables -t nat -A PREROUTING -p tcp --d x.x.x.x --dport 80 -j REDIRECT --toport 9040 [root@backup] # iptables -t nat -A PREROUTING -p tcp --d x.x.x.x --dport 80 -j REDIRECT --toport 9080 [root@backup] # iptables -t nat -A PREROUTING -p tcp --d x.x.x.x --dport 443 -j REDIRECT --toport 9443
(For Linux Kernel 2.2) [root@backup] # ipchains -I input --proto TCP --dport 80 -j REDIRECT 9080 [root@backup] # ipchains -I input --proto TCP --dport 443 -j REDIRECT 9080 [root@backup] # ipchains -I input --proto TCP --dport 443 -j REDIRECT 9080 [root@backup] # ipchains -I input --proto TCP --dport 443 -j REDIRECT 9080 [root@backup] # ipchains -I input --proto TCP --d x.x.x.x --dport 80 -j REDIRECT 9080 [root@backup] # ipchains -I input --proto TCP --d x.x.x.x --dport 443 -j REDIRECT 9080 [root@backup] # ipchains -I input --proto TCP --d x.x.x.x --dport 443 -j REDIRECT 9080 [root@backup] # ipchains -I input --proto TCP --d x.x.x.x --dport 443 -j REDIRECT 9080
[root@backup] # ipchains -I input --proto TCP --d x.x.x.x --dport 443 -j REDIRECT 9080
[root@backup] # ipchains -I input --proto TCP --d x.x.x.x --dport 443 -j REDIRECT 9080
[root@backup] # ipchains -I input --proto TCP --d x.x.x.x --dport 443 -j REDIRECT 9080
[root@backup] # ipchains -I input --proto TCP --d x.x.x.x --dport 443 -j REDIRECT 9443

You need to use the -d option if you have modified %INSTALL\_HOME%\conf\server.xml to listen to only a single IP address (e.g. x.x.x.x)

iii. Save this setting by running (so you don't need to type this in again when you reboot your machine)

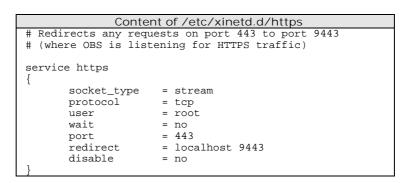
```
(For Linux Kernel 2.4 or above)
[root@backup] # service iptables save
or
```



#### (For Linux Kernel 2.2) [root@backup] # service ipchains save

- iv. Setup forward for local TCP requests from local machine
  - a. Create two files, named http and https, under the /etc/xinetd.d directory

Conte	nt of /etc/xinetd.d/http
	ests on port 80 to port 9080 cening for HTTP traffic)
<pre>service http {     socket_type     protocol     user     wait     port     redirect     disable }</pre>	<pre>= stream = tcp = root = no = 80 = localhost 9080 = no</pre>



b. Restart the xinetd service by

[root@backup] # service xinetd restart

- v. Configure OBS to listen on port 9080 and 9443 for HTTP and HTTPS traffic. Please refer to the section on <u>Listening to non-standard TCP/IP port</u> for more information.
- vi. Create a non-root user and group (both named obs) to run OBS service

[root@backup] # groupadd obsgrp [root@backup] # useradd obs -g obsgrp

Note: you need to ensure that "obs" has privilege to execute the "ifconfig" command.

vii. Shutdown the OBS backup service

(Unix / Linux)[root@backup]# /etc/init.d/obs stop(FreeBSD)[root@backup]# /usr/local/etc/init.d/obs stop

viii. Open the OBS startup script file [ /etc/rc.d/init.d ] and change the OBS\_USER environment variable line to a Linux/Unix user (e.g. obs)

export OBS\_USER=obs

ix. Change the owner and group of the \$OBS\_HOME directory and all subdirectories to "obs" and "obsgrp" respectively

[root@backup] # chown -R obs:obsgrp \$OBS\_HOME

If the [USER\_HOMES] and [SYSTEM\_HOME] directories defined under the [Manage System] page on the web interface are not located inside the \$OBS\_HOME directory, you need to change the



ownership of these directories to "obs:obsgrp" as well. For example:

[root@backup] # chown –R obs:obsgrp [USER\_HOME 1] [root@backup] # chown –R obs:obsgrp [USER\_HOME 2] [root@backup] # chown –R obs:obsgrp [SYSTEM\_HOME]

x. Startup the OBS backup service

(Unix / Linux)[root@backup]# /etc/init.d/obs start(FreeBSD)[root@backup]# /usr/local/etc/init.d/obs start

xi. You can now use "netstat -a" to verify that OBS is listening on port 9080 and port 9443. Also, you can use "ps aux" to verify that OBS is started under the user "obs".

	Sample output of verification commands above								
[root@b	[root@backup] # netstat -a								
Active	Interne	et connections	(servers	and e	stab	lished)			
Proto R	lecv-Q S	Send-Q Local A	Address		Fore	ign Add	ress	State	
tcp	0	0 *:http			*:*			LISTEN	
tcp	0	0 *:https			*:*			LISTEN	
tcp	0	0 *: <b>9080</b>			*:*			LISTEN	
tcp	0	0 *: <b>9443</b>			*:*			LISTEN	
[root@b	ackup]	# ps aux							
obs	894	0.3 11.1 778	064 57136	?	S	12:30	1:06		
/usr/lc	/usr/local/obs/java/bi								

#### 19.7 How do I start up RPS as OBS?

Assumptions:

- i. You want to kick off RPS as OBS
- ii. The [Home Directory] of the receiver of OBS configured on RPS is [D:\RepHome]
- iii. The [User Homes] of OBS are [E:\Users] and [F:\Users] on OBS
- iv. The [System Home] of OBS is [E:\System] on OBS

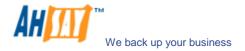
Please do this on RPS:

- i. Copy "D:\RepHome\files\C%3A\Program Files\Ahsay Offsite Backup Server" to "C:\Program Files\Ahsay Offsite Backup Server"
- ii. Copy "D:\RepHome\files\E%3A\Users" to "E:\Users", "D:\RepHome\files\F%3A\Users" to "F:\Users" and "D:\RepHome\files\E%3A\System" to "E:\System"

If the partitions for E:\ or F:\ are not available, just copy these directories to any locations you want but please make sure to open "C:\Program Files\Ahsay Offsite Backup Server\conf\obs.xml" and modify the entries for [user-home] and [system-home] with the correct paths)

- iii. Run "C:\Program Files\Ahsay Offsite Backup Server\bin\install-service.bat" to install OBS as windows services
- iv. Shutdown the [Control Panel] -> [Administrative Tools] -> [Services] -> [Ahsay Replication Server] service
- v. Startup the [Control Panel] -> [Administrative Tools] -> [Services] -> [Ahsay Offsite Backup Server] service

Please take a look at "C:\Program Files\Ahsay Offsite Backup Server\logs\obs\*.log" and "C:\Program Files\Ahsay



Offsite Backup Server\logs\cat\*.log" if you run into any problems.

#### 19.8 How do I move OBS to a new IP address?

If you want to move your OBS installation to a new IP address, please do this:

- i. Update your DNS record of the hostname of your OBS to point to a new IP address (Please note that it could take up to 24 hours for this changes to propagate to all DNS servers around the world)
- ii. Move your existing OBS installation to another IP address and restart the backup services of OBS once you are on a new IP address
- iii. All existing clients installation should pick up this change and send their backup data automatically to OBS located on the new IP address
- iv. If any existing client installation doesn't run its scheduled backup, please ask the user to restart the [Online Backup Scheduler] service under [Services]

#### 19.9 How do I move OBS to a new server?

To move an existing OBS installation to a new server, please do this:

i. Copy the program directory (the default location is shown below) from your old server to your new server

Windows – "C:\Program Files\Ahsay Offsite Backup Server"

- c. Linux "/usr/local/obs"
- Mac OS X "/Applications/OBS" and "/System/Library/StartupItems" or "/Library/StartupItems" (for Tiger or later)
- ii. Copy the [System Home] directory to the new server (back to its original directory if possible). The default location is "C:\Program Files\Ahsay Offsite Backup Server\system". If you didn't change the setting of this directory, it should have been copied over to the new server already in step (i).
- iii. Copy the [User Homes] directories to the new server (back to its original directory if possible). The default location is "C:\Program Files\Ahsay Offsite Backup Server\user". If you didn't change the setting of these directories, they should have been copied over to the new server already in step (i).
- iv. If you have restored the [System Home] directory or any of the [User Homes] directories to another directory (instead of the original directory), please open
  - a. Windows "C:\Program Files\Ahsay Offsite Backup Server\conf\obs.xml"
  - b. Linux "/usr/local/obs/config/obs.xml"
  - c. Mac OS X "/Applications/OBS/config/obs.xml"

and modify the <system-home> and/or <user-home> parameters within the [obs.xml] file to reflect the correct paths for these directories.

- v. (for Windows) Run [C:\Program Files\Ahsay Offsite Backup Server\bin\Install-Service.bat] to install OBS as Windows services.
- vi. Startup the backup services

Note that after moving OBS to the new server, you will need to activate your existing license key on the new OBS machine. When doing so, you would get the following error message at the top of the [Software License] page:

Internal Error no. 1011



This is because one license key can only be used to activate one machine at the same time. However, there is a 7-day grace period. Your new server should remain functional for 7 days after the activation. To resolve this error, you need to:

- i. Switch off the old OBS server
- ii. Submit a ticket to Technical Support, quoting "Internal Error no. 1011" and provide your licensee name and license key
- iii. We will then reset your license key on our side
- iv. You can then activate your new OBS server again and the error will be gone

#### **19.10** How do I set the user home directory to a network drive?

If you want to set the [User Home] directory to a network drive, please use UNC path instead of drive letter as your [Manage System] -> [User Homes] entry, i.e. use \\SERVER\SHARE instead of H:\.

If user authentication is required to access the network drive, please use [Control Panel] -> [Administrative Tools] -> [Services] -> [Ahsay Offsite Backup Server] -> [Log on] -> [This Account] to setup an username/password gain to access the network path. Also, please make sure the Windows account you have entered into the [This Account] section has administrative privileges on the backup server itself.

## 19.11 Can I perform an integrity check on all backup files stored under OBS?

If you are interested in forcing an integrity check on all backup files stored under OBS, please do this:

- i. Browse to [OBS Web Administrator's Console] -> [Manage System] -> [Routine Job] -> [Rebuild User Storage]
- ii. Check the [Enable Backup File Validation] option
- iii. Uncheck the [Skip Validated Files] option
- iv. Select the [Move to retention dir] option
- v. Schedule the [Rebuild User Storage] job to a time in the near future
- vi. Check the [Manage Log] -> [System Log] page to see if OBS files any corrupted files

Please refer to the Rebuild User Storage section for more information.



### 20 Troubleshooting

The chapter contains solutions to all common error messages that can be found in OBS.

# 20.1 I am getting the message "Error getting report from all IP addresses" in my email. What can I do to correct this?

Please check if any of your disk partitions is full. Pay special attention to the OBS log directory:

- (Windows) C:\Program Files\Ahsay Offsite Backup Server\logs
- (Linux) /usr/local/obs/logs
- (Mac OS X) /Applications/OBS/logs

It is safe to delete any log files here from the system.

Also, are you using non-default TCP port for the backup server? If so, please append the port number of your HTTP (NOT HTTPS) connector to the [Manage System] -> [Host Name] entry.

#### E.g. backup.yourcompany.com: 8080

If you are not using custom port, open a browser on the backup server and type in the value of [Manage System] -> [Host Name] as an URL. Check if you get the backup server homepage. If you don't get the webpage, try until you can reach it and put this value in the [Manage System] -> [Host Name] field. (Please omit the page name, i.e. /index.jsp, from this entry)

If you are running OBS on Linux Kernel 2.6, you could have run into the compatibility problem of running Java program on Linux Kernel 2.6 (see this http://www.jroller.com/page/dissonance/20050630#fedora\_core\_4\_and\_jdk). Please try this to fix this problem:

- i. Open [\$OBS\_HOME/bin/startup.sh]
- ii. Change the line

export CATALINA\_OPTS="-Xms64m -Xmx512m -client -Dsun.net.inetaddr.ttl=10800 - Dnetworkaddress.cache.ttl=10800 -Dsun.net.inetaddr.negative.ttl=0 - Dnetworkaddress.cache.negative.ttl=0"

to

export CATALINA\_OPTS="-Xms64m -Xmx512m -client -Dsun.net.inetaddr.ttl=10800 - Dnetworkaddress.cache.ttl=10800 -Dsun.net.inetaddr.negative.ttl=0 - Dnetworkaddress.cache.negative.ttl=0 -Djava.net.preferIPv4Stack=true"

iii. Restart the backup service by running [service obs stop] and then [service obs start]

## 20.2 Some of my backup accounts have disappeared. What can I do to recover them?

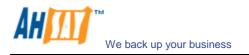
- i. Go to the log directory (C:\Program Files\Ahsay Offsite Backup Server\logs)
- ii. Take a look at the latest obs\*.log file
- iii. Scroll to the bottom and check if you can find a "Profile Corrupted" error message
- If there is one, open File Explorer and go to the [User Home] / [Login Name] / db directory for this user
- v. Check if Profile.xml is missing (or corrupted, just open to take a look)
- vi. If it is missing, just use the backup copy (e.g. Profile.xml.1) to recreate a new one



- vii. It is not missing, check if this file is corrupted (Make sure the XML document is complete). If it is corrupted, just use the backup copy (e.g. Profile.xml to recreate a new one)
- viii. This account should now appear on the backup server.
- ix. If you are still no seeing all your users, just go back to step 2 and check if there is another corrupted profile.

# 20.3 OBS running on Linux crashes unexpectedly and randomly when Samba is being used to access user home stored on another server?

Please use CIFS that supports large file sizes over SMB.



## 21 Appendixes

#### 21.1 Contact Us

If you need any additional information, please submit your question to us using our <u>Helpdesk Ticketing System</u>.