Ahsay Offsite Backup Server v5.5

Administrator's Guide

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Author: Scherring Chong

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1 Overview

1.1 Benefits

- Easy Backup of
 - 1. Microsoft Exchange Server 2000 / 2003 / 2007
 - 2. Microsoft SQL Server 7.0 / 2000 / 2005
 - 3. Lotus Domino/Notes 5.0 or above
 - 4. Oracle 8i or above
 - 5. MySQL 3.2.4 or above
 - 6. Windows System State
 - 7. Outlook and Outlook Express (i.e. *.pst, *.dbx and *.wab)
 - 8. Important personal settings, e.g. Desktop, Favorite, My Documents and History etc
 - 9. Other common files (e.g. *.doc, *.xls)
 - 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 5.5) Introduction of AhsayOBS, Free Edition
- (New in 5.5) Ability to initiate backup from AhsayOBS
- (New in 5.5) Windows Active Directory authentication support
- (New in 5.5) Load balancing support
- Full support of Microsoft Exchange individual email, contacts, calendars, tasks etc.
- New easy to use backup client for home/SOHO users.
- Allow the administrator to set whether to "copy a file" to retention area when the file permissions are updated.
- Choose whether to restore "file permissions" during restore.
- For "Local Copy" backup, ability to choose whether to perform a local copy backup only and skip the offsite backup.
- Lotus Notes/Domino agent for Linux.
- 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 1st 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
AhsayOBS	 Windows 2000 / 2003 (server recommended) Linux kernel 2.4 or above Solaris 2.x or above AIX HP-UX FreeBSD Mac OS X 10.2 or above All other operating systems that supports Java2 Runtime Environment 1.4.2 or above 	 Memory: 512MB (minimum) 1GB (recommended) Disk Space: 300MB Network Protocol: TCP/IP (http/https)
AhsayRPS	 Windows 2000 / 2003 (server recommended) Linux kernel 2.4 or above Solaris 2.x or above AIX HP-UX FreeBSD Mac OS X 10.2 or above All other operating systems that supports Java2 Runtime Environment 1.4.2 or above 	 Memory: 128MB (minimum) 512MB (recommended) Disk Space: 100MB Network Protocol: TCP/IP (http/https)



* 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 ap	plications		
	Supported Platforms	Application Compatibilities	Hardware Requirements
AhsayOBM	 Windows 95 / 98 / ME / NT / 2000 / XP / 2003 / Vista Linux kernel 2.4 or above NetWare 5.1 or above Solaris 2.x or above AIX HP-UX FreeBSD Mac OS X 10.3 or above All other operating systems that supports Java2 Runtime Environment 1.4.0 or above 	 Microsoft Exchange Server 2000 / 2003 / 2007 Microsoft SQL Server 7.0 / 2000 / 2005 Lotus Domino / Lotus Notes 5.0 or above Oracle 8i or above MySQL 3.2.4 or above Outlook / Outlook Express i.e. *.pst, *.dbx and *.wab Other common files e.g. *.doc, *.xls Also supports backing up of: Windows System State (all platforms except Vista) Windows NTFS access privileges Linux access privileges and modes Mac OS X metadata and resource forks 	 Memory: 128MB (minimum) 256MB (recommended) Disk Space: 110MB Network Protocol: TCP/IP (http/https)
AhsayACB	 Windows 95 / 98 / ME / NT / 2000 / XP / 2003 / Vista Mac OS X 10.3 or above 	 Outlook / Outlook Express i.e. *.pst, *.dbx and *.wab Other common files e.g. *.doc, *.xls Also supports backing up of: o Windows NTFS access privileges 	 Memory: 128MB (minimum) 256MB (recommended) Disk Space: 110MB Network Protocol: TCP/IP (http/https)



2 Installation

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

2.1 Install Software

To install AhsayOBS 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 AhsayOBS, please do the followings:

On Windows

- v. Logon as [administrator] to Windows
- vi. 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]
- vii. Startup/Shutdown
 - a. To startup AhsayOBS, press the [Start] button
 - b. To shutdown AhsayOBS, press the [Stop] button

<u>On Linux/Unix</u>

- viii. Logon as [root]
- ix. To startup AhsayOBS , please run

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

x. To shutdown AhsayOBS, please run

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

On Mac OS X

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



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

iii. To shutdown AhsayOBS, 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 AhsayOBS 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.

On Linux/Unix

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

```
(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.

On Mac OS X

- i. Logon as a Mac user with [administrative privileges]
- ii. Shutdown AhsayOBS, 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 AhsayOBS. Please consult the information in the following chapters for a complete reference to all features available in AhsayOBS.

3.1 Getting started

To setup your AhsayOBS, please do the followings:

- i. Point your browser to http://your-server/.
- ii. Login as AhsayOBS administrator.

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



iii. Setup backup server

<u> </u>	Server Configuration Rose	ine Job Software License Replication Config Other Options	Log
Switch to Ahsay [™] Replication Server	System Settings		
Introduction	Login Name	: system	
Inderstanding Ahsay Online Backup Suite	Password	:	
Ahsay ¹¹⁴ Offsite Backup Server (AhsayOBS) a server application which offers online backup services in its users	Host Name	: backup.yourcompany.com	
Ahsay ^{**} Online Backup Manager	System Home	: C:Program Files/AhsayObs55/system	
AhsayOBM) is a full-featured client application used to backup data to the AhsayOBS	User Homes	1. C:Program Files\AhsayObs55\user	
Ahsay" A-Click Backup (AhsayACB) is a lite		New	
lient application for easy backup / recovery of files o / from the AhsavOBS.	Email System Settings		
Ahsay [™] Replication Server (AhsayRPS) rovides an offsite store for backed up data from nultiple AhsayOBSs.	SMTP Server	: Host Name Login Name Password 1. smtp your-company.com New	
Getting Started with AhsayOBM	Report Sender	Name EMail Backup Manager report@your-company.com	
Cetting Started with AhsavACB Key Features	Administrator Contact	: Name EMail 1. System Admin admin@your-company.com New	
Documentations	Language of System Reports	English	
System Management	📕 Use Proxy		
Contact us	Туре	: HTTP •	
	Proxy Host	: Port :	
	Proxy Username	: (optional)	
	Proxy Password	: (optional)	
	📕 Use Windows Active D	irectory (AD) Authentication	
	Domain Name	:	
REINSTALL FOLDERLY webapes (POOT) IN (Domain Controller IP	:	
ommon is to customize your company logo and the	Domain Controller Name	t iris.ahsay.com	
ames of softwares. After that, you can delete the ontent of "RenameProcedure" to remove this line.	RemoveAhsayOBS	* C After a user account has been deleted from AD for 30 🗾 da	ys, AhsayOBS will delete this user
	Powered by Offste Backup Softwa Copyright (c) 1999-2008	re, Free Edition	Buy Licenses Onl



Prior to using AhsayOBS 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 AhsayOBS 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.your-company.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 AhsayOBS. To add a backup user to the system, please do the followings:

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



	Manage System Mar	age Log Manage User Select Langui	age
O mandy comme success starter	Add User List User	Run Backup Log	out
Switch to Ahsay [™] Replication Server	User Setting		-
Introduction	Login Name		
Understanding Ahsay Online Backup Suite	Password	1	
Offsite Backup Server (AhsayOBS) is a server application which offers online backup services to the unacted	Alias	•	I
⊙ Ahsay™ Online Backup Manager	Timezone	: GMT+08:00 (CST)	
(AhsayOBM) is a full-featured client application used to backup data to the AhsayOBS.	Language	: English	
O Ahsay™ A-Click Backup (AhsayACB) is a lite	Backup Client	: AhsayOBM User 💌	
client application for easy backup / recovery of files to / from the Ahsay/OBS Ahsay ¹⁰⁰ Ahsay ¹⁰⁰ Replication Server (AhsayRPS) provides an offsite store for backed up data from multiple Ahsay/OBS.	Assigned Adgroups	C Do not show any advertisement to this user Conly the following Adgroups: F Detaut Adgroup	
	Туре	: Paid User 💌	
Getting Started with AhsayOBM	Email	:	
Getting Started with AhsayACB ▼	Welcome email	: 🕅 Send welcome email to new users 🔲 Include encrypted password in welcome email	
* Key Features V	Backup Setting		
Documentations V System Management V	User Home	Use Auto User Home Allocation Settings Where backup files for this user are to be stored on this server. Prease use the Manage system -> Server Configuration page to add another directory to the list above. To modify Auto User Home Allocation Settings, please use the Manage System -> Server Configuration page -> Options	
Contact us	Backup Quota	: 50.0 @ Mbytes C Gbytes	
	Bandwidth	: Unlimited Bits/Second	
	Add-on Modules	Image: The Microsoft Exchange Server Image: Microsoft SQL Server Image: The Microsoft Exchange Server Image: Microsoft SQL Database Server Image: The The The The The Microsoft SQL Database Image: The	
Edt [INSTALL_FOLDER] \ webapps \ ROOT \ Ib \ common.js to customize your company logo and the names of softwares. After that, you can delete the		M ac AnasyceM VM Royality □ W Continuous Data Protection Add Reset	
content of RenameProcedure to remove this line.	Powered by Ahsay Onlin	e Backup Software, Standard Evaluation Edition	1
	Copyright (c) 1999-2008	Buy Licenses Only	ne:

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 AhsayOBM client or AhsayACB client
Advertise Group	For AhsayACB clients only. Choose whether advertisements are displayed at
	the bottom of the AhsayACB 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. Login as the new user
 - a. Point your browser to http://your-server/.
 - b. Click the [User Login] link at the top
 - c. Login 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 Ahsay Online Backup Manager (AhsayOBM) 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 AhsayOBS 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 AhsayOBS 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 AhsayOBS as non-root user

If you are running AhsayOBS on Linux, you are advised to run the AhsayOBS service as non-root user. (AhsayOBS 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 "<u>How do I run AhsayOBS</u> <u>under non-root user on Linux?</u>" 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.

	Manage System Manage Lo	g Manage User	Administrator's Guide Select Language
S Ansay Chane Buckup server	Server Configuration Rout	ine Job Software License Replication Config Other Options	Logout
Switch to Ahsay™ Replication Server	System Settings		<u> </u>
Introduction	Login Name	: system	
Understanding Ahsay Online Backup Suite	Password	:	
Offsite Backup Server (AhsayOBS) is a server application which offers online backup services to its users.	Host Name	: backup.yourcompany.com	
O Ahsay™ Online Backup Manager	System Home	C:\Program Files\AhsayObs55\system	
(AhsayOBM) is a full-featured client application used to backup data to the AhsayOBS.	User Homes	1. C:\Program Files\AhsayObs55\user	
G Ahsay™ A-Click Backup (AhsayACB) is a lite		New	
client application for easy backup / recovery of files to / from the AhsayOBS.	Email System Settings		
O Ahsay™ Replication Server (AhsayRPS) provides an offsite store for backed up data from multiple AhsayOBSs.	SMTP Server	Host Name Login Name Password Smtp.your-company.com New	
	Report Sender	: Name EMail Backup Manager report@your-company.com	
● Getting Started with AhsayACB ▼ ★ Key Features ▼	Administrator Contact	: Name EMail 1. System Admin admin@your-company.com New	
Documentations	Language of System Reports	English	
System management	🔲 Use Proxy		
⊠ <u>Contact us</u> ▼	Туре	: HTTP 💌	
	Proxy Host	: Port :	
	Proxy Username	: (optional)	
	Proxy Password	: (optional)	
	📕 Use Windows Active Di	irectory (AD) Authentication	
	Domain Name	:	
Edit TALL FOLDEDI) websees) DOOT) III)	Domain Controller IP	:	
common.js to customize your company logo and the	Domain Controller Name	: iris.ahsay.com	
names of softwares. After that, you can delete the content of "RenameProcedure" to remove this line.	RemoveAhsayOBS Account	: After a user account has been deleted from AD for 30 🔽 a	days, AhsayOBS will delete this user
	Powered by Offsite Backup Softwa Copyright (c) 1999-2008	re, Free Edition	Buy Licenses Online!

Ahsay ¹¹⁴ Offsite Backup Server	Manage System Manage	Log Manage User		Administrator's Guide Select Lan
	Server Configuration R	outine Job Software License Rep.	ication Config Other Options	<u>1</u>
Switch to Ahsay™ Replication Server	Options			
	Language Settings	Bulgarian	Catalan	Czech
ntroduction		Danish	German	Greek Modern
derstanding Ahsay Online Backup Suite		English	Spanish	🔽 Euskara
Ahsay™ Offsite Backup Server (AhsayOBS)		Finnish	French	🔽 Hungarian
ices to its users.		☑ Icelandic	✓ Italian	I Japanese
hsay™ Online Backup Manager		Korean	✓ Lithuanian	Dutch
I to backup data to the AhsayOBS.		Norwegian	Polish	Portuguese (Brazil)
hsay™ A-Click Backup (AhsayACB) is a lite		Portuguese (Portugal)	Romanian	Russian
t application for easy backup / recovery of files rom the AbsavOBS		Slovenian	Swedish	🔽 Thai (Thai digits)
hsay™ Replication Server (AhsayRPS)		Turkish	Chinese (Simplified)	Chinese (Traditional)
des an offsite store for backed up data from ble AhsayOBSs.	Features Settings	: 🔽 Show Help link	Show FAQ link	
		Show Restore Link	Show Install Link	
tting Started with AhsayOBM	Permission Updated Fi	les : 🔽 Keep a copy of all files w	ith old permissions in the retention	area
etting Started with AhsayACB	Moved Files	: 🔽 Keep a copy of all files u	nder old file paths in the retention a	area
ev Features V	Auto User Home Allocation	: User Home 1. C:\Program Files\AhsayO	Current QPS Ratio bs55\user 33.6% (50.1G / 148.96	5G) Unlimited 9%
	Welcome email	: 🔽 Send welcome email to r	ew users 🛛 🗖 Include encrypt	ed password in welcome email
stem management, ¥	🗹 Enable Free Trial Re	gistration		
ontact us 🔻	Backup Quota	50 Mbytes 👻		
		Ouota will be reset to	00 Mbytes after 30 Days	
		C User will be suspended a	fter 30 T Davs	
	Add-on Modules			
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		MySQL Database Server	Oracle Database Server	
		Lotus Domino	Lotus Notes	
		In-rite Delta	10 Volume Shadow Copy	
INSTALL_FOLDERI V webapps \ ROOT \ lib \ mon.js to customize your company logo and the		Microsoft Exchange Mailb	ox 110	
es of softwares. After that, you can delete the	Remove User	60 💌 Days after registration	n	

This section describes all settings under the [Manage System] -> [Server Configuration] 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 AhsayOBS 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 AhsayOBS 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 AhsayOBS 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.
Language of System Reports	The language which will be used in all system reports
Use Proxy	Whether to use proxy to access the internet
Туре	The type of proxy to be used (HTTP / SOCKS)
Proxy Host / Port	Proxy server host and port number
Proxy Username / Password	Proxy user name and password if user authentication is used
Use Windows Active Directory	Whether to use Windows Active Directory Authentication
(AD) Authentication	
Domain Name	The domain name to be used for AD authentication
Domain Controller IP	The IP address of the domain controller
Remove AhsayOBS Account	Whether to delete AhsayOBS user account when AD user account is
	disabled/deleted
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
Permission updated files	It determines whether the existing file are copied to retention area before
	updating the permission settings
Moved Files	It determines whether the existing file are copied to retention area before
	updating the file paths
Auto User Home Allocation	Maximum QPS Ratio can be changed
Welcome Email	It determines if welcome emails will be sent to new users and other options
	on welcome emails
Enable Free Trial Registration	Whether to enable free trial user registration
Backup Quota	The default backup quota of trial users
Add-on Modules	The default modules available to trial users
Remove User	Whether to remove trial users and the length of trial period



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)





The languages currently supported by AhsayOBS 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.









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 AhsayOBS 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 AhsayOBS 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 AhsayOBS (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 AhsayOBS defines a directory in which AhsayOBS will store all its system information.

The user home directories for AhsayOBS define a list of directories in which AhsayOBS 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 AhsayOBS. 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 AhsayOBS easily. For example, if you want to add more storage to AhsayOBS, 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 AhsayOBM "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 "<u>How do I set the user home directory to a network drive?</u>" 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 AhsayOBS 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 AhsayOBS 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 AhsayOBS. 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 AhsayOBS.

The [Email System Setting] -> [Administrator Contact] entry defines the administrative contact of AhsayOBS. AhsayOBS 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 AhsayOBS 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 Windows Active Directory (AD) Authentication Setting

When Windows Active Directory Authentication is enabled, user authentication will be dispatched to Windows Active Directory (AD) automatically if AhsayOBS fails to authenticate a user logon using its own records. This means that if an AD is present in the network, it is only required to create an user account once in AD and the same user account can also be used in AhsayOBS, because AhsayOBS will create this user account automatically after authenticating this logon using AD. When this user logons to AhsayOBS, AhsayOBS will use Free Trial Registration settings above (even if it is not enabled) as the template of user profile (i.e. backup quota and add-on modules settings, but not Microsoft Exchange Mailbox which will be disabled by default) to be created. The user account created will be of "Paid" type and of "AhsayACB" backup client (unless the user logons using "AhsayOBM").

To enable this feature, simply check the box of [Use Windows Active Directory (AD) Authentication] under the [Manage System] -> [Server Configuration] page (by default it is enabled).

To further synchronize AhsayOBS and AD, removal of users can be configured. If you want to delete/disable AhsayOBS user account when the user is removed from AD, you can check the boxes in the section of [Remove AhsayOBS Account]. You can have both options checked and create your own standard. For example, setting [After a user account has been deleted from AD for 20 days, AhsayOBS will delete this user account automatically] and [After a user account has been deleted from AD for 10 days, AhsayOBS will disable this user account automatically], can result that when the user account is removed from AD after 10 days, the user account will be deleted.



5.8 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.

Abravia Offrite Backup Server	Manage System Manage	Log Manage User		Administrator's Guide Select Lang
S Ansay Onsile Backup server	Server Configuration R	outine Job Software License Repl	lication Config Other Options	Lo
Switch to Abasy M Daplication Foreign	Options			
switch to Ansay Replication Server	Language Settings	: 🗹 Bulgarian	Catalan	Czech
Introduction		Danish	German	Greek Modern
Inderstanding Ahsay Online Backup Suite		English	Spanish	Euskara
Ahsay™ Offsite Backup Server (AhsayOBS)		Finnish	French	Hungarian
ervices to its users.		☑ Icelandic	✓ Italian	I Japanese
Ahsay™ Online Backup Manager		Korean	✓ Lithuanian	Dutch
AnsayOBM) is a full-featured client application sed to backup data to the AhsayOBS.		Norwegian	Polish	Portuguese (Brazil)
Ahsay™ A-Click Backup (AhsayACB) is a lite		Portuguese (Portugal)	Romanian	Russian
ient application for easy backup / recovery of files / from the AbsavOBS		Slovenian	Swedish	🗹 Thai (Thai digits)
Ahsay [™] Replication Server (AhsayRPS)		Turkish	Chinese (Simplified)	Chinese (Traditional)
rovides an offsite store for backed up data from ultiple AhsavOBSs.	Features Settings	: 🗹 Show Help link	Show FAQ link	
		Show Restore Link	Show Install Link	
Getting Started with AhsayOBM	Permission Updated Fi	les 🗄 🔽 Keep a copy of all files w	ith old permissions in the retention a	irea
Getting Started with AhsayACB 🛛 🔻	Moved Files	: 🔽 Keep a copy of all files u	nder old file paths in the retention ar	ea
Key Features	Auto User Home Allocation	: User Home 1. C:\Program Files\AhsayO	Current QPS Ratio bs55\user 33.6% (50.1G / 148.960	G) Unlimited 9%
	Welcome email	: 🗹 Send welcome email to n	ew users 🛛 🗖 Include encrypte	d password in welcome email
System Management	Enable Free Trial R	egistration		
Contact us	Backup Quota	: 50 Mbytes 👻		
		Ouota will be reset to	00 Mbytes V after 30 V Days	
		C User will be suspended at	fter 30 Dave	
	Add-on Modules			
		Microsoft Exchange Serve	er Microsoft SQL Server	
		MySQL Database Server	Oracle Database Server	
		Lotus Domino	Lotus Notes	
		In-rite Delta	10 Volume Shadow Copy	
ommon.js to customize your company logo and the		Microsoπ Exchange Mailb	ox 10	
ames of softwares. After that, you can delete the	Remove User	60 🗾 Days after registratio	on	

Кеу	Description
Show FAQ link	It defines whether the [FAQs] link should appear at the top right hand corner of the
	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)

5.9 File Permissions

The [File Permissions] settings under the [Manage System] -> [Server Configuration] page defines whether AhsayOBS 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.



5.10 Free Trial Setting

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

Trial users do not count towards the maximum number of users allowed within AhsayOBS by the software license and there can be unlimited number of trial users within AhsayOBS. 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 AhsayOBM upon installation of AhsayOBM (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.

	Language : English
📔 Backup	Server
http 💌	
he Proxy S	etting
🔲 Use prox	y to access the backup server
Type :	Proxy
	O Sock
Address:	
	Port:
User Name	:
Password :	
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ial Registrat Login Name Password : Confirm Pas Contact	Next Cancel 1

*ALL fields are required

Submit 🛢 🛛 Cancel 😣

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 AhsayOBS to remove trial backup users from the system automatically after backup users have registered for 60 days.

Already a user?



6 Software License

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

plication Server	cense Setting				
	consee Name	 EvaluationOnly 			
nline Backup Suite					
Server (AhsayOBS)	cense Key	: 62pMG-YPD6I-3ggaG-b	5MCT-xA		
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ent application	ompany Name	:			
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AhsayRPS)	ontact Phone Number				
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	hauten	. 10		10	
	nsayACB	: 10	U	10 Available	_
V 44	icrocoft Exchange Somer	Quota	Usea	Available	
T	icrosoft Exchange Server	. 10	1	(a	
V	icrosoft Exchange Mailbox	: 10	0	10	
T	icrosoft SQL Server	: 10	1	9	
0	racle Database Server	: 10	1	9	
м	ySQL Database Server	: Unlimited			
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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.
Company Name	The company name used for contact
Contact Name	The name of the contact person



Contact Email	The email address of the contact person
Contact Number	The phone number of the contact person
AhsayOBM	The maximum number of AhsayOBM backup accounts allowed
AhsayACB	The maximum number of AhsayACB backup accounts allowed
User Add-on	It shows whether different add-on modules are enabled for AhsayOBM/AhsayACB
Modules	(client side). You need to have a new license key to enable these modules.
	Quota – the total number licenses of a particular module available in total
	➤ Used – the total number licenses of a particular module assigned to all users
	Available – the total number licenses of a particular module available for further
Server Add-on	It shows whether different add-on modules are enabled for AhsayOBS/AhsayRPS
Modules	(server side). You need to have a new license key to enable these modules.
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
	AhsayOBS this date.
Free Upgrade Until	The last date you are allowed to upgrade to the latest AhsayOBS 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 AhsayOBS, 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 AhsayOBS on another server, you will get an "Internal Error 1011" or "Internal Error 1012" message. You can still run this copy of AhsayOBS 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 AhsayOBS 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 AhsayOBS 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.



6.3 Evaluation Expiry and Free Edition

After the evaluation period, the evaluation key will be expired and the AhsayOBS will be stopped from servicing. Although the service will still be alive, AhsayOBM and AhsayACB cannot do backups anymore. You should get the following screen when it happens:

Absort Offsite Backup Server	Manage System Manage Log Man	age User			Administra	tor's Guide Select Langua
	Server Configuration Routine Job S	Software L	icense <u>Replication</u>	n Config Other Opti	ons	Logo
Switch to Ahsay™ Replication Server	Standard Evaluation	Licen	se.checkLic	Time1 Licen	se expired o	n 2008-07-26.
Introduction			Server is	stopped.		
Understanding Ahsay Online Backup Suite						
GAhsay™ Offsite Backup Server (AhsayOBS) is a server application which offers online backup services to its users.	To request a Free Licens	se" bu	please fill in tton. A free	n correct co license key	will be sent	tion and click to the contact
OAhsay™ Online Backup Manager (AhsayOBM) is a full-featured client application used to backup data to the AhsayOBS.		Peques	email a	Buy Licenses	Online	
GAhsay™ A-Click Backup (AhsayACB) is a lite client application for easy backup / recovery of files to / from the AhsavOBS.	License Setting	ivequea	clor nee neense	Duy Licenses	onime:	
O Ahsay™ Replication Server (AhsayRPS) provides an offsite store for backed up data from	Licensee Name	: Ev	aluationOnly			
multiple AnsayOBSs.	License Key	: 62	oMG-YPD6I-3ggaG-b	5MCT-xA		
Getting Started with AhsayOBM	Contact					
Getting Started with AhsayACB	Company Name	: [
Key Features 🔻	Contact Name	: [
Documentations	Contact Email Address	:				
System Management	Contact Phone Number	: [
	Number of users		Quota	Used	Available	
	AhsayOBM	:	10	2	8	
	AhsayACB	:	10	0	10	
	User Add-on Modules		Quota	Used	Available	
	Microsoft Exchange Server	:	10	1	9	
	Microsoft Exchange Mailbox	:	10	0	10	
Edit [INSTALL_FOLDER] \ webapps \ ROOT \ lib \ common.js to customize your company logo and the	Microsoft SQL Server	:	10	1	9	
ames of softwares. After that, you can delete the content of "RenameProcedure" to remove this line.	Oracle Database Server	:	10	1	9	
	Powered by Ahsay Online Backup Software Copyright (c) 1999-2008	, Standard Ev	aluation Edition			Buy Licenses Onlin

If you want to continue using AhsayOBS, you can press the [Buy Licenses Online] button to purchase new licenses. However, if you have not yet decided to purchase our product, you are welcomed to apply for a free license. Input all contact details (including [Company Name], [Contact Name], [Contact Email Address], [Contact Phone Number]), and then press the [Request for free license] button. An email will be sent to your email account in a short time.

	Manage System Manage Log Mana	ige User			Administra	tor's Guide Select Languag
S Andy Chane backup server	Server Configuration Routine Job S	oftware Lie	cense <u>Replication</u>	Config Other Option	ons	Logou
Switch to Ahsay [™] Replication Server	[Standard Evaluation	Licens	e.checkLic Server is	Time] Licen stopped.	se expired o	n 2008-07-26.
Understanding Ahsay Online Backup Suite						
GAhsay [™] Offsite Backup Server (AhsayOBS) is a server application which offers online backup services to its users.	A Free License key lic	is sent ense k	to the con ey and clic	tact email a k "update"	ddress. Plea button.	se fill in that
O Ahsay™ Online Backup Manager (AhsayOBM) is a full-featured client application used to backup data to the AhsayOBS.		Request	for free license	Buy Licenses	Online!	
G Ahsay™ A-Click Backup (AhsayACB) is a lite client application for easy backup / recovery of files	License Setting					
to / from the AhsayOBS. Absay™ Replication Server (AbsayRPS)	Licensee Name	: Eval	uationOnly			
provides an offsite store for backed up data from multiple AhsayOBSs.	License Key	: 62pl	NG-YPD6I-3ggaG-b	5MCT-xA		
	Contact					-
Getting Started with AhsayOBM	Company Name	: your	-company			
<u>Getting Started with AhsayACB</u> V	Contact Name	: your	-name			
★ Key Features	Contact Email Address	: your	-email@your-comp	any.com		
System Management	Contact Phone Number	: (cou	ntry-code) your-nun	nber		
Contactus V	Number of users		Quota	Used	Available	
	AhsayOBM	:	10	2	8	
	AhsayACB	:	10	0	10	
	User Add-on Modules		Quota	Used	Available	
	Microsoft Exchange Server	÷	10	0	10	
	Microsoft Exchange Mailbox	:	10	0	10	
	Microsoft SQL Server	:	10	0	10	
Edit [INSTALL_FOLDER] \ webapps \ ROOT \ lib \ common.js to customize your company logo and the	Oracle Database Server	:	10	0	10	
names of softwares. After that, you can delete the content of "RenameProcedure" to remove this line.	MySQL Database Server		Unlimited			
	Powered by Ahsay Online Backup Software, Copyright (c) 1999-2008	Standard Eva	luation Edition			Buy Licenses Online



Within the email, you will have the licensee name and license key received. Copy and paste the values to the fields on the page of [Manage System] -> [Software License] respectively. After that, press the [Update] button at the end of the page. Then you should be able to continue to use AhsayOBS (with more limitations).

If you have created some users in AhsayOBS before, you may obtain the following page:

Manage System Manage Log Mana	ge User	rence Penlicatio	n Config I Other Onti	Administra	<u>ttor's Guide</u> <u>Select Lan</u>
Quota is exceede	d. Sor	ne users a	re suspende	d due to out	of quota.
License Setting					
Licensee Name	: FRE	E_your-email@you	r-company.com99		
License Key	: XXXX	x000000000000000000			
Contact					
Company Name	: your	-company			
Contact Name	: your	-name			
Contact Email Address	: your	-email@your-comp	any.com		
Contact Phone Number	: (cou	intry-code) your-nun	nber		
Number of users		Quota	Used	Available	
AhsayOBM	:	0	0	0	
AhsayACB	:	2	0	2	
User Add-on Modules		Quota	Used	Available	
Microsoft Exchange Server	:	0	0	0	
Microsoft Exchange Mailbox	:	0	0	0	
Microsoft SQL Server	:	0	0	0	
Oracle Database Server	:	0	0	0	
MySQL Database Server	:	Unlimited			
Lotus Domino		0	0	0	
Lotus Notes	:	0	0	0	
In-File Delta	:	2	1	1	
the second s		2			
	Manage System Jannate Luo Mana Derver. Confavorator Routine.Zok Sec Cuchta is exceeded License Setting License Key Contact Company Name Contact Name Contact Email Address Contact Phone Number Microsoft Exchange Server Microsoft Exchange Server Microsoft Exchange Server Microsoft SQL Server Oracle Database Server MySQL Database Server Lotus Domino Lotus Notes In-File Delta	Manage System Janage Lug Manage Lug Manage Lug Manage Lug Software Likes Confauration Routine.200 Routine.200 Software Likes Confauration Routine.200 Ro	Manage System Manage Log Manage User Cerver Configuration Routine Zob Software License Replication Quota is exceeded. Some users and License Setting License Name : [FREE_your-email@you License Key : [vour-company Contact Company Name : [vour-company Contact Name : [vour-company Contact Email Address : [vour-email@your-comp Contact Phone Number : [(country-code) your-num Number of users Quota AhsayACB : 2 User Add-on Hodules Quota Microsoft Exchange Server : 0 Microsoft SQL Server : 0 MySQL Database Server : Unlimited Lotus Domino : 0 Lotus Notes : 0	Manage System Manage Log Manage Log Canver.Configuration Routine 20k Software License Replication: Config Other.Config Quota is exceeded. Some users are suspended License Setting License Name : [FREE_your-email@your-company.com99 License Key : [oouronopany.com Contact Contact Name : [your-email@your-company.com Contact Email Address : [your-email@your-company.com Contact Email Address : [your-email@your-company.com Contact Final Address : [your-email@your-company.com Contact Final Address : [gounty-code) your-number Number of users Quota Used Microsoft Exchange Server : 0 0 Microsoft SQL Server : 0 0 MySQL Database Server : 0 0 Lotus Domino : 0 0 0 Lotus Notes : 0 0 0 Licus Notes : 0 0 0	Administre Administre Censene Configuration Routine Zab Software License Regilication Config Other Outions Context Configuration Routine Zab Software License Regilication Config Other Outions License Setting Itense e Rame : [FREE_your-email@your-company.com99 License Key : [vour-company Contact Contact Tame : Contact Tame : [vour-company.com99 : Contact Tame : [vour-company.com99 : Contact Tame : [vour-email@your-company.com : Contact Tamai : [vour-email@your-company.com : Contact Tamai : [vour-email@your-company.com : Contact Famil Address : [vour-email@your-company.com : Contact Famil Address : [vour-ename] : Number of users Quota Used Available AhsaydBM : 0 0 0 Microsoft Exchange Server : 0 0 0 Microsoft SQL Server : 0 0 0 MySQL Database Server : 0 0 0 Licuts Notes : 0 0 0

The system prompts that the quota is exceeded, because generally free version of AhsayOBS has more limitations on number of users, modules and features than evaluation version. When it changes to Free Edition, the extra users will be suspended and the user accounts will stop functioning. Users to be suspended are chosen randomly. It is recommended to remove/suspend the extra users before switching to free edition.

After you have purchased a new license, you can apply the licensee name and license key as described in previous sections. You can then re-activate the users by using the tools in [Manage User]. For more information on [Managing User], please refer to the section of "Managing User" in this document.



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 AhsayOBS. 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.

	Manage System Manage Log Ma	anage Us	er		Administrator's Guide Select Language
S Ansay "Onshe Backup Server	Server Configuration Routine Job	Softwa	are License Rep	lication Confid	Other Options Logout
Switch to Absav™ Replication Server					
	User Report	10			Time to run
Introduction	Backup Report	:	• Enable C	Disable	At the start of every hour
Understanding Ahsay Online Backup Suite	Online Restore Report	:	Enable C	Disable	At the start of every hour
Shsay™ Offsite Backup Server (AhsayOBS) is a server application which offers online backup	Setting Change Report	:	€ Enable C	Disable	At the start of every hour
Abrav TM Online Backup Manager	Missed Backup Report	10	C Enable C	Disable	At the start of every hour
(AhsayOBM) is a full-featured client application used to backup data to the AhsayOBS.	Inactive User Report	:	€ Enable C	Disable	Daily at 09 • : 20 • (HH:MM)
O Ahsay [™] A-Click Backup (AhsayACB) is a lite	Off-line Backup Reminder	:	€ Enable C	Disable	Daily at 09 💌 : 25 💌 (HH:MM)
client application for easy backup / recovery of files to / from the AhsayOBS.	Backup Quota Reminder	:	€ Enable C	Disable	Daily at 09 • : 05 • (HH:MM)
O Ahsay™ Replication Server (AhsayRPS)					when [Storage/Quota] > 90%
multiple AhsayOBSs.	Trial User Reminder	:	€ Enable C	Disable	Daily at 09 • : 50 • (HH:MM)
					Remind user 25 - days after registration
Getting Started with AhsayOBM	System Report				Time to run
© Getting Started with AhsayACB ▼	Usage Report	* :	€ Enable C	Disable	Daily at 09 💌 : 55 💌 (HH:MM)
🚖 Key Features 🔹 🔻	Error Report	:	€ Enable C	Disable	Daily at 09 • : 15 • (HH:MM)
	System Job				Time to run
Documentations V	Inactive User Removal	:	€ Enable C	Disable	Daily at 09 • : 35 • (HH:MM)
System Management V	Retention Policy Job	:	€ Enable C	Disable	Daily at 09 • : 40 • (HH:MM)
💌 <u>Contact us</u> 🔻	Rebuild User Storage	:	€ Enable O	Disable	Every Sun v at 09 v : 30 v (HH:MM)
	System Log Removal	:	€ Enable C	Disable	Daily at 09 • : 45 • (HH:MM)
					Keep Logs for 365 - Days
	Debug Log Removal		€ Enable C	Disable	Daily at 09 • : 10 • (HH:MM)
					Keep Logs for 60 💌 Days
				Jpdate Res	set
common.js to customize your company logo and the names of softwares. After that, you can delete the	Kev: Backup Report Hou	irly job si	ending backup re	ports to users	who have their backup job completed within the last hour.
content of "RenameProcedure" to remove this line.		1. 5.1	1. 1. et	· · ·	
	Powered by Ahsay Online Backup Softwa Copyright (c) 1999-2008	are, Standa	ard Evaluation Edition		Buy Licenses Online!

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. AhsayOBS 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 AhsayOBS.

This job will run daily as defined by the [Daily at] setting. If you want the administrative contacts of AhsayOBS 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 AhsayOBS.

This job will run daily as defined by the [Daily at] setting. If you want the administrative contacts of AhsayOBS 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 AhsayOBS 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 AhsayOBS 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 AhsayOBS 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 (AhsayRPS) to work with AhsayOBS. For further information, please refer to the <u>Ahsay Replication Server Administrator's Guide</u>.



9 Managing Other Options

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

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		Total	100% 0	/1/1	
		Update Res	set		
ze Block size used to d	detect changes v	within backup fil	es.		
Size In-File Delta backup	In-File Delta backup will only be applied to files larger than this size				
elta The default in-file de	The default in-file delta calculation method used.				
Full File Settings to control w	when to upload t	the full file.			
p An adgroup groups multiple advertisements into a logical unit which can then be assigned to different users. All advertisements within an adgroup will be presented to all AhsayACB users who have been assigned to this adgroup.					
sements Advertisement settings for all AhsayACB clients.					
Name The name of this advertisement.					
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Кеу	Description
In-file delta setting for all	Select this option to enable and use in-file delta technology for all AhsayACB
AhsayACB users	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	The in-file delta type to use for calculating the delta file
	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.
	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.
Upload Full File	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:
	Maximum No. of Delta – the total number of deltas uploaded since the last
	full file. The default setting is 100 deltas.
	Delta Ratio – the ratio of the Delta Size divided by the Full file size. The
	default setting is 50%.
Adgroup for all AhsayACB	An adgroup groups multiple advertisements into a logical unit which can then be
and AnsayOBM users	assigned to different users. All advertisements within an adgroup will be
	presented to all users who have been assigned to this adgroup.
Advertisements	Click the Add link to add new advertisements

9.1 In-file Delta Settings for all AhsayACB users

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

An adgroup groups multiple advertisements into a logical unit which can then be assigned to different users. All advertisements within an adgroup will be presented to all users who have been assigned to this adgroup.

To add new a new adgroup, type the name of the adgroup in the empty field located under [Adgroup for all AhsayACB and AhsayOBM users] and next to the [New] text. Press the [Update] button at the bottom and a new adgroup will be created.

9.7 Advertisements

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

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 AhsayACB 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.

Anady Chane Backop Server	Server Configuration	Routine Job Software Licer	se Replication Config Other Options	Lo	
Switch to Ahsay™ Replication Server	Add new advertise	ement			
Introduction	Name		:		
nderstanding Ahsay Online Backup Suite	Assigned Adgroup	05	: 🔽 Default Adgroup		
Ahsay™ Offsite Backup Server (AhsayOBS) a server application which offers online backup	GIF Image		:	Browse	
Ahsay™ Online Backup Manager nsayOBM) is a full-featured client application ad to backup data to the AhsayOBS.	Flash Image (will be displayed if client's machine)	Flash player is available on	:	Browse	
Ahsay ^m A-Click Backup (AhsayACB) is a lite	Text		:		
from the AhsayOBS.	Text Animation		: Scroll left 💌		
Ahsay™ Replication Server (AhsayRPS) vides an offsite store for backed up data from	Text Alignment		: Left 💌		
tiple AhsayOBSs.	URL		http://		
Setting Started with AhsayOBM			Enable tracking		
Setting Started with AhsayACB	Seconds		: 10 💌		
Key Features V			Update Cancel		
Documentations System Management V	<u>Key :</u> Name	The name of this advertisen	ient.		
Contact us	Start Date	The starting date of this advertisement.			
	Image	The image to be displayed at the bottom of the AhsayACB client.			
	Text	The text message to be displayed at the bottom of the AhsayACB client			
	Text Animation	n Text message animation in AhsayACB. Options are "Scroll Left", "Scroll Right" and "None".			
	Text Alignment	t Text message alignment in AhsayACB. Options are "Left", "Right" and "Center".			
	URL	The target UBL of this advertisement. To enable tracking, please add the following code into the Flash image: on (release) { getUBL (clickTAG, "_blank"); }			
[INSTALL FOLDER] \ webapps \ ROOT \ lib \	Seconds	The time in seconds to display this advertisement.			
mon.js to customize your company logo and the nes of softwares. After that, you can delete the tent of "RenameProcedure" to remove this line.	Hits	The number of times your u last 7 days] / [Hits within th	sers clicked this advertisement. The values are [Hits w a last 30 days]	ithin 1 day] / [Hits within the	
	Powered by Ahsay Onlin Copyright (c) 1999-2008	e Backup Software, Standard Eval	ation Edition	Buy Licenses On	

Кеу	Description
Name	The name of the advertisement.
Assigned Adgroups	It determines if the advertisement should be included in the adgroup(s).
GIF Image	The full pathname of the image file to be displayed at the bottom of the AhsayOBM/AhsayACB client. The image size should be 468 x 60, and the format should be in GLE
Flash Image	The full pathname of the flash image file to be displayed at the bottom of the AhsayOBM/AhsayACB client. The image size should be 468 x 60. Flash player must be available on the client's machine in order to display the image.
Text	The text to be displayed at the bottom of the AhsayOBM/AhsayACB 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.
	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 AhsayOBM/AhsayACB, a
	browser will open and displays this web page.
Enable tracking	When selected, every time the user clicks the advert in the
	AhsayOBM/AhsayACB client, a "Hits" 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 AhsayOBS.

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 AhsayOBS.

A Abravit Offite Backup Server	Manage System Man	age Log Manage User	Select Language
S Andy Chane Backop Server	Add User List User	Run Backup	Logout
Switch to Ahsay [™] Replication Server	User Setting		-
Introduction	Login Name	:	
Understanding Ahsay Online Backup Suite	Password		
G Ahsay™ Offsite Backup Server (AhsayOBS) is a server application which offers online backup services to its users	Alias		
OAhsay™ Online Backup Manager	Timezone	: GMT+08:00 (CST)	
(AhsayOBM) is a full-featured client application used to backup data to the AhsayOBS.	Language	: English 💌	
G Ahsay™ A-Click Backup (AhsayACB) is a lite	Backup Client	: AhsayOBM User 💌	
client application for easy backup / recovery of files to / from the AhsayOBS.	Assigned Adgroups	C Do not show any advertisement to this user C Only the following Adgroups: D Default Adgroup	
	Туре	: Paid User 💌	
Getting Started with AhsayOBM	Email		
Getting Started with AhsayACB	Welcome email	Send welcome email to new users Include encrypted password in welcome email	
★ Key Features 🔹	Backup Setting		
Image: System Management	User Home	Use Auto User Home Allocation Settings Where backup files for this user are to be stored on this server. Please use the Manage System -> Server Configuration page to add another directory to the list ab To modify Auto User Home Allocation Settings, please use the Manage System -> Server Configura Options	ove. tion page ->
⊠ <u>Contact us</u> ▼	Backup Quota	: 50.0 C Mbytes C Gbytes	
	Bandwidth	: Unlimited V Bits/Second	
	Add-on Modules	V Verificrosoft Exchange Server V MySQL Database Server V Oracle Database Server V O Lotus Domino Vert Ver	
Edit [NSTALL_FOLDER] \ webapps \ ROOT \ lib \ common.js to customize your company logo and the names of softwares. After that, you can delete the content of "RenameProcedure" to remove this line.		AhsayOBM JVM Royalty Continuous Data Protection Add Reset	
	Powered by Ahsay Online Copyright (c) 1999-2008	e Backup Software, Standard Evaluation Edition Buy Lie	censes Online!

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 AhsayOBM client or AhsayACB client
Assigned Adgroups	Choose whether advertisements are displayed at the bottom of the backup client
Туре	Either [Trial] or [Paid] type. Trial accounts and paid users differ in the following ways:
	 Trial users can only have a maximum backup quota of 500MB after the trial period. Trial users subject to automatic removal as defined by the [Free Trial Registration] setting (though automatic removal can be disabled) 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 AhsayOBS by using the [Manage System] -> [System Configuration] page.


	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 🔟 link next the user you would like to remove.

9		Select Language
	Add User List User Run Backup	Loqout
Switch to Ahsay [™] Replication Server	Search by J. @ Login Name O Alian Event Users' II	same Statistics to CSV Broadcast Message
Introduction	[A-B C-D E-F G-H I-J K-L M-N O-P O-R S-T U-V W-X Y-Z Oth	ers Trial Paid Suspended All]
Understanding Ahsay Online Backup Suite	No. User Add-on Modules Login Name Registration Date Tri (Alias)	al Expiry Date Used / Quota (%)
GAhsay [™] Offsite Backup Server (AhsayOBS) is a server application which offers online backup services to its users.	1 1 2008-08-14 (Today) Nev	ver Expire 0 / 50M (0%)
O Ahsay™ Online Backup Manager (AhsayOBM) is a full-featured client application used to backup data to the AhsayOBS.		
OAhsay™ A-Click Backup (AhsayACB) is a lite client application for easy backup / recovery of files to / from the AhsayOBS.		
O Ahsay™ Replication Server (AhsayRPS) provides an offsite store for backed up data from multiple AhsayOBSs.		
<u> <u> Getting Started with AhsayOBM</u> </u>		
Getting Started with AhsayACB ▼ ★ Key Features ▼		
Documentations		
System Management 🗸		
Contact us		
Edit [INSTALL_FOLDER] \ webapps \ ROOT \ lb \		
common is to customize your company logo and the names of softwares. After that, you can delete the		
content of "RenameProcedure" to remove this line.	Powered by Ahsay Online Backup Software, Standard Evaluation Edition	Part Licenses Online!
	Convright (a) 1999 2009	DUV LICENSES VIIII IE
	copyrigin (c) 1999-2000	
Kov	Description	
Key Search By	Description	be applied to [Login N
Key Search By	Description Define whether alphabetically search should [Alias]	be applied to [Login Na
Key Search By	Description Define whether alphabetically search should [Alias]. Indicates the add on modules for this account	be applied to [Login Na
Key Search By User Add-on modules	Description Define whether alphabetically search should [Alias]. Indicates the add-on modules for this account Login Name of this account. Click the link to	be applied to [Login Ni
Key Search By User Add-on modules Login Name (Alias)	Description Define whether alphabetically search should [Alias]. Indicates the add-on modules for this accout Login Name of this account. Click the link to blankets is the alias, and the ison indicates	be applied to [Login Ni nt. see account details. Th
Key Search By User Add-on modules Login Name (Alias)	Description Define whether alphabetically search should [Alias]. Indicates the add-on modules for this accout Login Name of this account. Click the link to blankets is the alias, and the icon indicates	be applied to [Login Na nt. see account details. Th the client type (AhsayO
Key Search By User Add-on modules Login Name (Alias)	Description Define whether alphabetically search should [Alias]. Indicates the add-on modules for this account Login Name of this account. Click the link to blankets is the alias, and the icon indicates AhsayACB).	be applied to [Login Nant. o see account details. The client type (AhsayO
Key Search By User Add-on modules Login Name (Alias) Registration Date	Description Define whether alphabetically search should [Alias]. Indicates the add-on modules for this account Login Name of this account. Click the link to blankets is the alias, and the icon indicates AhsayACB). Date when this account was created.	be applied to [Login Na nt. see account details. Th the client type (AhsayO
Key Search By User Add-on modules Login Name (Alias) Registration Date Trial Expiry Date	Description Define whether alphabetically search should [Alias]. Indicates the add-on modules for this account Login Name of this account. Click the link to blankets is the alias, and the icon indicates AhsayACB). Date when this account was created. The expiry date of trial users. If it expires, to the provide the provident of the	be applied to [Login Na nt. see account details. Th the client type (AhsayO
Key Search By User Add-on modules Login Name (Alias) Registration Date Trial Expiry Date	Description Define whether alphabetically search should [Alias]. Indicates the add-on modules for this account Login Name of this account. Click the link to blankets is the alias, and the icon indicates AhsayACB). Date when this account was created. The expiry date of trial users. If it expires, the paid users will show "Never Expire" in this fit.	be applied to [Login Ni nt. see account details. Th the client type (AhsayO he user account will be eld.
Key Search By User Add-on modules Login Name (Alias) Registration Date Trial Expiry Date Used/Quota (%)	Description Define whether alphabetically search should [Alias]. Indicates the add-on modules for this account Login Name of this account. Click the link to blankets is the alias, and the icon indicates AhsayACB). Date when this account was created. The expiry date of trial users. If it expires, the paid users will show "Never Expire" in this fit The used/allocated quota (and the quota user)	be applied to [Login Ni nt. see account details. Th the client type (AhsayO he user account will be leld. age percentage) of this
Key Search By User Add-on modules Login Name (Alias) Registration Date Trial Expiry Date Used/Quota (%) Remove	Description Define whether alphabetically search should [Alias]. Indicates the add-on modules for this account Login Name of this account. Click the link to blankets is the alias, and the icon indicates AhsayACB). Date when this account was created. The expiry date of trial users. If it expires, the paid users will show "Never Expire" in this fit is fit and the quota uses. Remove this backup user.	be applied to [Login Ni nt. see account details. Th the client type (AhsayO he user account will be ield. age percentage) of this
Key Search By User Add-on modules Login Name (Alias) Registration Date Trial Expiry Date Used/Quota (%) Remove Export Users' Usage	Description Define whether alphabetically search should [Alias]. Indicates the add-on modules for this account Login Name of this account. Click the link to blankets is the alias, and the icon indicates AhsayACB). Date when this account was created. The expiry date of trial users. If it expires, the paid users will show "Never Expire" in this fit is fit in this fit is account was created. The used/allocated quota (and the quota us Remove this backup user. Export all users' usage statistics to a .csv fil	be applied to [Login Ni nt. see account details. Th the client type (AhsayO he user account will be eld. age percentage) of this e.
Key Search By User Add-on modules Login Name (Alias) Registration Date Trial Expiry Date Used/Quota (%) Remove Export Users' Usage Statistics to CSV	Description Define whether alphabetically search should [Alias]. Indicates the add-on modules for this account Login Name of this account. Click the link to blankets is the alias, and the icon indicates AhsayACB). Date when this account was created. The expiry date of trial users. If it expires, the Paid users will show "Never Expire" in this fit The used/allocated quota (and the quota us Remove this backup user. Export all users' usage statistics to a .csv fil	be applied to [Login Ni nt. see account details. Th the client type (AhsayO he user account will be ield. age percentage) of this e.



10.3 Broadcast messages to backup users

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.

🗲 Ahsay™ Offsite Backup Server 🔡	Manage System	anage Log Manage User	Select Langua
	Add User List Use	r <u>Run Backup</u>	Log
Switch to Ahsay™ Replication Server	Broadcast Mess	age	
Introduction	From	: "Backup Manager" <report@ahsay.com></report@ahsay.com>	
nderstanding Ahsay Online Backup Suite	То	CAll CPaid CTrial	
a server application which offers online backup rvices to its users.		C AhsayOBM User C AhsayACB User C Admin ("Backup Manager" <report@ahsay.com>)</report@ahsay.com>	
Ahsay™ Online Backup Manager hsavOBM) is a full-featured client annication	Subject		
ed to backup data to the AhsayOBS.	Message	•	
Ahsay™ A-Click Backup (AhsayACB) is a lite ent application for easy backup / recovery of files / from the AhsayOBS.			
Ahsay™ Replication Server (AhsayRPS) vides an offsite store for backed up data from tiple AhsayOBSs.			
ietting Started with AhsayOBM			
Getting Started with AhsayACB			
Key Features 🗸 🗸		C Tast C Hand	
Documentations V	Attachment	Browse	
system Management V		Send Reset	
Contact us			
	Kev		
	From	Whom the message is from	
	То	Who should receive the message	
	Subject	Subject of the message	
	Message	The content of the message	
	Text	Plain text message	
	Html	Message in HTML format	
[INSTALL_FOLDER] \ webapps \ ROOT \ lib \ mon.js to customize your company logo and the ses of softwares. After that, you can delete the tent of "RenameProcedure" to remove this line.			
	Powered by Ahsay O Copyright (c) 1999-20	nline Backup Software, Standard Evaluation Edition Buy	Licenses Onli

Кеу	Description
From	Sender of this message
То	Broadcast message to the following user types:
	All – all backup users
	Paid – backup users of [Paid] user type
	Trial – backup users of [Trial] user type
	AhsayOBM User – backup users of AhsayOBM client type
	AhsayACB User – backup users of AhsayACB client type
	Admin – backup administrator, i.e. email address defined on the [Manage System]
	-> [Server Configuration] -> [Administrator Contact] list (useful if you want to test
	the broadcast feature before sending the message out to all users)
Subject	Subject of this message
Message	Content of this message
Text/Html	The content type of this message, i.e. whether content should be considered as plain
	text or HTML.
Attachment	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.



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 AhsayOBS using AhsayOBM, 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 AhsayOBM 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.

Absorver Offeite Backup Server	Manage System Manage Log Manage User [demo]	Select Language
S Ansay Onsile Backup Server	Add User List User Run Backup User Profile Backup Set File Explorer Report Statistics	Logout
Switch to Ahsay™ Replication Server	Backup Set : BackupSet-0 V Add Remove	
Introduction		
Understanding Ahsay Online Backup Suite	BackunSet-0	
S Ahsay™ Offsite Backup Server (AhsayOBS) is a server application which offers online backup services to its users.	[Help] Type	
O Ahsay™ Online Backup Manager (AhsayOBM) is a full-featured client application used to backup data to the AhsayOBS.	C	
GAhsay™ A-Click Backup (AhsayACB) is a lite client application for easy backup / recovery of files to / from the AhsayOBS.	End Microsoft Exchange Mail Level Backup [Help] Backup Source Backup the following files/directories :	
O Ahsay™ Replication Server (AhsayRPS) provides an offsite store for backed up data from multiple AhsayOBSs.	1 . [Add] Exclude the following files/directories : 1 . [Add]	
Getting Started with AhsayOBM	[Help] Backup Schedule [Add] No schedules defined	
G Getting Started with AhsayACB	Backup Set - Options	
🚖 Key Features 🔻 🔻	[Help] 🗖 🎚 Enable In-File Delta	
Documentations ▼	Block Size : Auto 💌 Bytes	
E Svetem Management	Minimum Size : 25 Mbytes	
	Default In-file Delta Type : [Advanced]	
⊠ <u>Contact us</u> V	Upload Full File when Maximum No. of Delta greater than : 100 (-1 = Unlimited) OR	
	Upload Full File when Delta Ratio greater than : 50 💌 Delta Size / File Size (%)	
	Temporary directory for storing backup files :	
	[Help] Retention Customization Policy	
	7 Days •	
	C Customize	
	[Help] 🔽 🕄 Volume Shadow Copy	
common.js to customize your company logo and the	[Help] 🗹 Backup File Permission	
names or softwares. After that, you can delete the content of "RenameProcedure" to remove this line.	[Help] 🗖 Enable off-line backup	
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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)

Ahsov - Offsite Backup Server	Manage System Manage Log Manage User [demo]	Select Language
O and a sum the set of the	Add User List User Run Backup User Profile Backup Set File Explorer Report Statistics	Logout
Switch to Ahsay [™] Replication Server	Enable Local Copy Comula : Others/Regime	-
O Introduction	Zin conied file(e)?	
Understanding Ahsay Online Backup Suite	Skip Offsite Backup C Yes C No	
Other Ansay ^m Offsite Backup Server (AhsayOBS) is a server application which offers online backup services to its users.	Set Local Copy Permission C Yes No Retention Customization Policy T Days	
Online Backup Manager (Ahsay0BM) is a full-featured client application used to backup data to the Ahsay0BS.	[hieg] Network Resources Authentication for Windows : Domain :	
O Ahsay™ A-Click Backup (AhsayACB) is a ite client application for easy backup / recovery of files to / from the AhsayOBS.	User Name : Password :	
O Ahsay™ Replication Server (AhsayRPS) provides an offsite store for backed up data from multiple AhsayOBSs.	(Ital) Pre-backup command 1 · Name [ddd]	
Getting Started with AhsayOBM V	Command Working Directory	
G Getting Started with AhsayACB	[Helg] Post-backup command 1. Name [Add]	
E Documentations	Command Working Directory	
51 System Management V	[Help] Online Restore IP restriction	
Contact us	1 - From To [Add] No IP restrictions if no IP addresses are provided.	_
	Time Mark Interval: 60 Minute	
	Minimum Update Interval: 10 X Minute Backup these files upon changes automatically:	
	C All files on local hard disks but exclude those files defined the following filters	
	C All files on local hard disks defined by the backup source and backup filter settings	
Edit [NSTALL_FOLDER] \ webapps \ ROOT \ Ib \ common is to customize your company logo and the names of softwares. After that, you can delete the context of "Deagen/Decoding" to remove this line.	C All files on local hard disks under the following paths Do not backup files defined as system files	
servers or reliance location to remove the line.	Powered by Ahsay Online Backup Software, Standard Evaluation Edition Copyright (c) 1999-2008	Buy Licenses Online

10.6 Initiating Backup from AhsayOBS

While users can backup data from their computers by using AhsayOBM or AhsayACB, backups can be initiated from AhsayOBS web console. Go to the page of [Manage User] -> [Run Backup], and you will have something similar in the following screenshot:

	Manage System Manage Log Manage User			Select Language
	Add User List User Run Backup			<u>Logout</u>
Switch to Ahsay™ Replication Server	Search by : • Login Name O Alias			
Introduction	[A-B C-D E-F G-H I-3 K-L M-N O-P	IQ-R S-T U-	-V W-X Y-Z Others	Trial Paid Suspended All]
Understanding Ahsay Online Backup Suite	No. Discussion Login Name (Alias) -> Backup Set	Backup is Backu	Used / Quota (%)	Last Backup
G Ahsay™ Offsite Backup Server (AhsayOBS) is a server application which offers online backup services to its users.	1 O (demo)	pending Type	8.4M / 50M (16%)	
OAhsay™ Online Backup Manager (AhsayOBM) is a full-featured client application	BackupSet-0	No		Thu Aug 14 13:06:51 CST 2008
used to backup data to the AhsayOBS. OAhsay™ A-Click Backup (AhsayACB) is a lite client application for easy backup / recovery of files	2 (NewAccount Name)	No	8.4M / 50M (16%)	Tue Aug 12 19:20:45 CST 2008
to / from the AhsayOBS.		Run Backun	Cancel Backup	
O Ahsay™ Replication Server (AhsayRPS) provides an offsite store for backed up data from		Run Backup	Cancer Backup	
● Getting Started with AbsayOBM ● Getting Started with AbsayACB ★ Key Features ▲ Lege Features ▲ System Management ▲ Contactus				
Edit [NSTALL_FOLDER] \ webapps \ ROOT \ Ib \ common js to customize your company logo and the names of softwares. After that, you can delete the constent of Persember forcing it is no				
	Powered by Ahsay Online Backup Software, Standard Evalue Copyright (c) 1999-2008	ation Edition		Buy Licenses Online!

Some definitions of the fields related are shown in the following table:

Кеу	Description
No.	Number count of user.
Login Name (Alias)	The login name of the user with the alias bracketed behind. If there is any backup set,
-> Backup Set	the name of the backup set will be shown under the user login name.
Backup is pending	"Yes" if the backup job is pending after pressing [Run Backup]; Otherwise "No".
Backup Type	Type of backup. For files only backup, the backup type will be empty.
Used / Quota (%)	The used data size of the user on the server and the total quota of data size that the
	user can use. The percentage of used size over quota is bracketed behind.
Last Backup	The creation time of the latest backup.

For each specific backup set of specific user to be backed up, check the box next to each of them. Please make sure the chosen backup sets have [Run scheduled backup in this computer] enabled in AhsayOBM / AhsayACB, under the section of [Backup Schedule] (by default it is enabled). Then press the [Run Backup] button at the bottom of the page. The [Backup is pending] of the chosen backup sets will be changed to "Yes", and after a short time AhsayOBM / AhsayACB will start backing up the data sources from the specific machine.

When the backup is finished, the [Backup is pending] value will become "No", and the [Last backup] will show the time of the last backup.

10.7 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.





10.8 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.

Abrour Office Backup Server	Manage System Manage Log Manage User [demo]	Select Language
S Ansay - Onsile Buckup server	Add User List User Run Backup User Profile Backup Set File.	Explorer Report Statistics Locout
O Switch to Ahsay™ Replication Server		12.02
O latraduation	Backup Set : Backup Set - Backup Job : 2008-08-14	13.06
O introducion	Job Status : Backup finished successfully	Detailed More Information?
Understanding Ahsay Online Backup Suite	Backup Time : 2008/08/14 13:06 - 2008/08/14 13:07 (CST)	Report available.
Ahsay" Offsite Backup Server (AhsayOBS)	Backup Job Statistics	User Account Statistics
services to its users.	New Files* 4 [8.4M bytes]	Data Area 8.4M bytes
Ahsay™ Online Backup Manager	Updated Files* 0 [0 bytes]	Retention Area 0 bytes
(AhsayOBM) is a full-featured client application	Updated Access Permissions* 0 [0 bytes]	Total Upload 8.4M bytes
used to backup data to the AhsayOBS.	Deleted Files* 0[0 bytes]	Backup Quota 50M bytes
GAhsay™ A-Click Backup (AhsayACB) is a Ite	Moved Files* 0 [0 bytes]	Remaining Quota 41.6M bytes
client application for easy backup / recovery of files	" Unit = Number of files [Total file size]	
provides an offste store for backed up data from multiple AlaxyoDSs. • Ø Gotting Startled with AhsayOBM • G Gotting Startled with AhsayACB • Key Leahuces •		
Documentations V System Management V		
S Contact us		
Edit [NSTALL_FOLDER] \ webapps \ ROOT \ Ib \ common, is to customize your company logo and the names of softwares. After that, you can delete the content of "RenameProcedure" to remove this line.		
	Powered by Ahsay Online Backup Software, Standard Evaluation Edition Copyright (c) 1999-2008	Buy Licenses Online!

10.9 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.

A DEPOSITION OF THE REPORT OF THE SHOW AND A	Manage System Man	age Log Manage User	qc-rh9-ora9]		Select Langue
S Anady - Onane Bdckop server	Add User List User	Run Backup Uper Profile	Backup Set File Explorer 5	Report Statistics	Log
Culture in Alexandri Deplication Courses					
Switch to Ansay " Replication Server	Storage Usage Su	mmary			lonth (YYYY-MM); 2008-08 -
A Introduction	Date	Data Area*	Retention Area*	Uploaded Size*	Total Storage*
	2008-08-01	\$12.19M [534]	834.7M [519]	5.37M [14]	1.32G [1053]
Understanding Ahsay Online Backup Suite	2008-08-02	512.19M [534]	483.8M [113]	0[0]	995.99M [647]
Absay" Offsite Backup Server (Absay085)	2008-08-03	512.19M [534]	483.8M [68]	0[0]	995.99M [602]
is a server application which offers online backup	2008-08-04	512.19M [487]	60.42M [126]	0[0]	572.61M [613]
services to its users.	2008-08-05	512.19M [487]	0[81]	0[0]	512.19M [568]
Abau T Oolina Bashun Hananar	2008-08-06	512.19M [487]	0 [36]	0[0]	512.19M [523]
Ansay Online backup Manager	2008-08-07	512.19M [487]	0101	010	512.19M [487]
Ansayuom) is a rul-reatured client application	2008-08-08	512.19M [487]	0[0]	1010	512.19M [487]
see to backup data to the Ansayoos.	2008-08-09	512.19M [487]	0101	010	512.19M [487]
Ahsay [™] A-Click Backup (AhsayACB) is a life	2008-08-10	512.19M [487]	0[0]	0101	512-199 [487]
client application for easy backup / recovery of files	2008-08-11	512.19M 487	0101	010	512.1981 487
to / from the AhsayOBS.	2008-08-12	512.194 [407]	0101	0101	512.194 [407]
O Ahsay™ Replication Server (AhsayRPS)	2008-08-13	512.19M [487]	142 200 (22)	4326 [1]	512.199 487
provides an offsite store for backed up data from	Average	215'134 [431]	143.294 [72]	923K[1]	022-4914 [203]
s secteral sacces web room and any Getting. Started with AbsarACB Ker Features Documentations System Management Control we Control we	Data Area Retention Area Uploaded Size Total Storage	Total backup data stored Total backup data stored for the number of days s system. Total data uploaded on a Data Area + Retention A	in the data area in the retention area. Old copi- pecified by the retention policy particular date rea	es of updated or deleted bac of the backup set before th	kup files are retained here sy are removed from the
se substitutes to					
MEMORY AND AND A SUBJECT AND A					
Set (INSTALL_FOLDER) webacos 18001 \B 1 sommon, a lo cuatorize your company logo and the aareas of a fortwarras. After that, you can detect the sounder of "Resamand/coden for servers the B de.					



11 AutoUpdate

This chapter describes how you can use the AutoUpdate feature to deliver update of AhsayOBM to all running instances of AhsayOBM 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 AhsayOBS contains a patch for AhsayOBM which is more recent than the one running on its own machine, it will download and install the patch from AhsayOBS automatically (%INSTALL_DIR%\webapps\obs\liveUpdate\obm???.zip)
- iii. Scheduled backup now run with the latest version of AhsayOBM

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 AhsayOBM if backup scheduler is not enabled or no scheduled backup has been run since a new update has been installed on AhsayOBS.

11.2 Using AutoUpdate

When you install an updated version of AhsayOBS on your backup server, a new version of the AutoUpdate module for AhsayOBM is already bundled with the updated version of AhsayOBS. This means that a new version of AhsayOBM will be delivered to all your client machines through AutoUpdate when you install an updated version of AhsayOBS 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 refer to the <u>Ahsay Customization Portal User Guide</u> from the AhsayOBM customization portal for more information.

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 AhsayOBS
- 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.a" 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 AhsayOBM 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 AhsayOBS.

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 AhsayOBS'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 AhsayOBS 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 AhsayOBS (e.g. obs).

iii. Check if all files are installed correctly

Logon to the web interface of AhsayOBS 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 AhsayOBS'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 AhsayOBM to decrypt and restore the backup files available in the offline backup back to its original format



13 Load-Balancing Configuration

For further information, please refer to the Load-Balancing OBS Setup Guide.



14 Secure Socket Layer (SSL) Configuration

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

14.1 Installing a trusted SSL certificate

Default installation of AhsayOBS 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
<pre>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 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? [no]: yes</cn=www.secure-company.com,></pre>
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



14.2 Enforcing SSL to the web interface

If you want all users to connect to the web interface of AhsayOBS 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"

·····
==== Please uncomment the following section to enforce SSL for the web interface == === Please uncomment the following section to enforce SSL for the web interface ==
</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> <user-data-constraint> <transport-guarantee>CONFIDENTIAL</transport-guarantee> </user-data-constraint> </web-resource-collection></security-constraint> </pre>

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

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



15 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 AhsayOBS.

15.1 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.



Кеу	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



15.2 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.

S Ahsay™ Offsite Backup Server 🔤	Manad	e System Manage Log Manage	User		Administr	rator's Guide Select Lang
	Syste	m Log Backup Job Restored File	e Backup Error Replication Log Adv	ertisement Log		Lo
Switch to Ahsay [™] Replication Server	Dat	е (үүүү-мм-рр): 2008-08-11 💌				
Introduction	No.	Backup Time	Login Name > Backup Set > Job Number	Client	Upload	Job Status
nderstanding Ahsay Online Backup Suite	1	11/08 03:33PM - 11/08 03:33PM	demo > > 2008-08-11 (15:33)	5.5.0.9	8.86M	OK
Ahsay™ Offsite Backup Server (AhsayOBS) a server application which offers online backup	2	11/08 03:43PM - 11/08 03:43PM	<u>demo</u> > > <u>2008-08-11 (15:43)</u>	5.5.0.9	0	OK (no files backed up)
Ahsay™ Online Backup Manager	3	11/08 05:04PM - 11/08 05:04PM	<u>demo</u> > > <u>2008-08-11 (17:03)</u>	5.5.0.9	0	OK (no files backed up)
sed to backup data to the AhsavOBS.	4	11/08 05:32PM - 11/08 05:32PM	demo > > 2008-08-11 (17:31)	5.5.0.9	0	User interrupted
Ahsay™ A-Click Backup (AhsavACB) is a lite	5	11/08 05:47PM - 11/08 05:47PM	demo > > 2008-08-11 (17:47)	5.5.0.9	0	User interrupted
lient application for easy backup / recovery of files o / from the AhsayOBS.	6	11/08 05:53PM - 11/08 05:53PM	<u>demo</u> > > 2008-08-11 (17:53)	5.5.0.9	0	OK (no files backed up)
Ahsay™ Replication Server (AhsayRPS) rovides an offsite store for backed up data from	7	11/08 05:54PM - 11/08 05:54PM	<u>demo</u> > > <u>2008-08-11 (17:54)</u>	5.5.0.9	0	OK (no files backed up)
nultiple AhsayOBSs.	8	11/08 05:54PM - 11/08 05:54PM	<u>demo</u> > > 2008-08-11 (17:54)	5.5.0.9	4k	OK
	9	11/08 05:56PM - 11/08 05:56PM	<u>demo</u> > > 2008-08-11 (17:55)	5.5.0.9	8.87M	OK
Getting Started with AhsayOBM	10	11/08 05:56PM - 11/08 05:56PM	<u>demo</u> > > <u>2008-08-11 (17:56)</u>	5.5.0.9	0	OK (no files backed up)
Getting Started with AhsayACB	11	11/08 06:21PM - 11/08 06:22PM	<u>demo</u> > > 2008-08-11 (18:21)	5.5.0.9	0	OK
	12	11/08 06:22PM - 11/08 06:22PM	<u>demo</u> > > 2008-08-11 (18:22)	5.5.0.9	0	ОК
Key Features	13	11/08 06:46PM - 11/08 06:46PM	demo > > 2008-08-11 (18:46)	5.5.0.9	4k	OK
Documentations T	14	11/08 06:48PM - 11/08 06:48PM	demo > > 2008-08-11 (18:47)	5.5.0.9	8.86M	ОК
System Management	15	11/08 06:49PM - 11/08 06:49PM	<u>demo</u> > > <u>2008-08-11 (18:49)</u>	5.5.0.9	0	OK (no files backed up)
of stell management	16	11/08 06:50PM - 11/08 06:50PM	demo > > 2008-08-11 (18:50)	5.5.0.9	4k	OK
It (NSTALL_FOLDER) \ webapps \ ROOT \ IIb \						
common js to customize your company logo and the names of softwares. After that, you can delete the content of "RenameProcedure" to remove this line.	Powe	red by Ahsay Online Backup Software, St	andard Evaluation Edition			

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



15.3 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.



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



15.4 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.



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



15.5 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 AhsayACB clients for a particular date. You can review displayed adverts on any particular date by selecting the required date from the drop down list.

	System	Log Backup Job	Restored File Backup Error Rep	lication Log	Advertisemen	t Log		L
Switch to Ahsay [™] Replication Server	Date	YYYY-MM-DD): 2	008-08-07 💌				Rows/Page: 50	•
Introduction			<< 1 2	3 4 5 6	280 >>			
nderstanding Ahsay Online Backup Suite	No.	Timestamp	Name	Туре	User Name	Remote IP	URL	
AbaauM Offaita Baakun Sanuar (AbaauOBS)	1	12:00:04 AM	Your advertisement	IMP	vincent-obm	192.168.6.188	www.ahsay.com/	
Ansay Offsite backup server (Ansayobs)	2	12:00:04 AM	Easy to use A-Click Backup	IMP	vincent-acb	192.168.6.188	www.ahsay.com	
a server application which others online backup	3	12:00:06 AM	Easy to use A-Click Backup	IMP	vincent-acb	192.168.6.188	www.ahsay.com	
IVICES to its users.	4	12:00:11 AM	Change URL	IMP	vincent-obm	192.168.6.188	www.ahsay.com	
Ahsay [™] Online Backup Manager	5	12:00:11 AM	Your advertisement	IMP	vincent-acb	192.168.6.188	www.ahsay.com/	
sayOBM) is a full-featured client application	6	12:00:13 AM	Your advertisement	IMP	vincent-acb	192.168.6.188	www.ahsay.com/	
d to backup data to the AhsayOBS.	7	12:00:18 AM	Easy to use A-Click Backup	IMP	vincent-obm	192.168.6.188	www.ahsay.com	
Absay™ A-Click Backup (AbsavACB) is a life	8	12:00:18 AM	Change URL	IMP	vincent-acb	192.168.6.188	www.ahsay.com	
nt application for easy backup / recovery of files	9	12:00:20 AM	Change URL	IMP	vincent-acb	192.168.6.188	www.ahsay.com	
from the AbsavOBS	10	12:00:25 AM	Your advertisement	IMP	vincent-obm	192.168.6.188	www.ahsay.com/	
nom nic Anadyobs.	11	12:00:25 AM	Easy to use A-Click Backup	IMP	vincent-acb	192.168.6.188	www.ahsav.com	
Ahsay [™] Replication Server (AhsayRPS)	12	12:00:27 AM	Easy to use A-Click Backup	IMP	vincent-acb	192.168.6.188	www.ahsav.com	
vides an offsite store for backed up data from	13	12:00:32 AM	Change URI	IMP	vincent-ohm	192,168,6,188	www.absay.com	
iple AhsayOBSs.	14	12:00:32 AM	Your advertisement	IMP	vincent-acb	192,168,6,188	www.ahsay.com/	
	15	12:00:34 AM	Your advertisement	IMP	vincent-ach	192,168,6,188	www.ahsay.com/	
	16	12:00:39 AM	Easy to use A-Click Backup	IMP	vincent-ohm	192 168 6 188	www.absay.com	
etting Started with AhsayOBM	17	12:00:39 AM	Change LIRI	IMP	vincent-ach	192 168 6 188	www.absay.com	
	18	12:00:41 AM	Change LIRI	IMP	vincent-ach	192 168 6 188	www.ahsay.com	
etting Started with AhsayACB 🛛 🔻	10	12:00:46 AM	Your advertisement	IMP	vincent-ohm	192 168 6 188	www.abcay.com/	
	20	12:00:46 AM	Easy to use A. Click Backup	TMD	vincent ophi	102 160 6 100	www.unsuy.com	
ev Features 🗸 🗸 🗸	21	12:00:48 AM	Easy to use A-Click Backup	IMP	vincent-acb	192.168.6.188	www.ansay.com	
	22	12:00:52 AM	Change LIRI	IMD	vincent-aco	102 160 6 100	www.ansay.com	
ocumentations	22	12.00.55 AM	Vaus advartisement	IND	vincent-obhi	192.100.0.100	www.ansay.com	
ocumentations v	25	12:00:55 AM	Your advertisement	IMP	vincent-acb	192.100.0.100	www.ansay.com/	
vetom Managomont	24	12:00:33 AM	Four advertisement	IND	vincent-aco	192.100.0.100	www.ansay.com/	
ystern management	20	12:01:00 AM	Change URI	IMP	vincent-opm	192.100.0.100	www.ansay.com	
entectue 🖉	26	12:01:00 AM	Change URL	IMP	Vincent-acb	192.168.6.188	www.ansay.com	
Unitaci us	2/	12:01:02 AM	Change UKL	IMP	Vincent-acb	192.100.0.100	www.ansay.com	
	28	12:01:07 AM	Your advertisement	IMP	vincent-opm	192.168.6.188	www.ansay.com/	
	29	12:01:07 AM	Easy to use A-Click Backup	IMP	vincent-acb	192.168.6.188	www.ansay.com	
	30	12:01:09 AM	casy to use A-Click Backup	IMP	vincent-acb	192.168.6.188	www.ansay.com	
	31	12:01:14 AM	Change UKL	IMP	vincent-obm	192.168.6.188	www.ansay.com	
	32	12:01:14 AM	Your advertisement	IMP	vincent-acb	192.168.6.188	www.ansay.com/	
	33	12:01:16 AM	Your advertisement	IMP	vincent-acb	192.168.6.188	www.ahsay.com/	
	34	12:01:21 AM	Easy to use A-Click Backup	IMP	vincent-obm	192.168.6.188	www.ahsay.com	
	35	12:01:21 AM	Change URL	IMP	vincent-acb	192.168.6.188	www.ahsay.com	
	36	12:01:23 AM	Change URL	IMP	vincent-acb	192.168.6.188	www.ahsay.com	
	37	12:01:28 AM	Your advertisement	IMP	vincent-obm	192.168.6.188	www.ahsay.com/	
	38	12:01:28 AM	Easy to use A-Click Backup	IMP	vincent-acb	192.168.6.188	www.ahsay.com	
	39	12:01:30 AM	Easy to use A-Click Backup	IMP	vincent-acb	192.168.6.188	www.ahsay.com	
[INSTALL_FOLDER] Webapps (ROOT \ID \	40	12:01:35 AM	Change URL	IMP	vincent-obm	192.168.6.188	www.ahsay.com	
mon.js to customize your company logo and the	41	12:01:35 AM	Your advertisement	IMP	vincent-acb	192.168.6.188	www.ahsay.com/	
ies of softwares. After that, you can delete the	42	12:01:37 AM	Your advertisement	IMP	vincent-acb	192.168.6.188	www.ahsay.com/	
tent of "RenameProcedure" to remove this line.	42	10.01.40 444	Esserte use A Click Paskus	TMD	uincent ohm	100 100 0 100	unun abeau com	

Кеу	Description					
Date	The date when the advertisements listed below were displayed					
Rows/Page	he number of rows to display per page					
Timestamp	The time when the advert was displayed					
Name	The name of the advertisement					
Туре	Advertisement display types:					
	IMP – Impression, this advertisement was displayed					
	HIT – Hit, this advertisement was displayed and the user clicked the advert to go to					
	the target web page.					
User Name	The user account name of the AhsayACB client					
Remote IP	The remote IP address of the AhsayACB client					
URL	The target URL associated with this advert					

15.6 Reviewing access logs

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



16 Branding AhsayOBM (Partners Only)

16.1 Customization Portal

The AhsayOBM customization portal (http://partners.ahsay.com/) allows you to do the followings:

- i. Building an AhsayOBM 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 AhsayOBM
- 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 AhsayOBM
- vi. Hide/Show language selection list in AhsayOBM
- vii. Hide/Show the backup server URL textbox in AhsayOBM
- viii. Set the default language for AhsayOBM
- ix. Enable/Disable languages for AhsayOBM
- x. Enable/Disable user account profile update from AhsayOBM
- xi. Customize the terms of use statements shown in the installer of AhsayOBM

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

Please refer to the <u>Ahsay Customization Portal User Guide</u> from the AhsayOBM customization portal for more information.



17 Branding AhsayOBS

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

17.1 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.

17.2 Different welcome pages for different domains

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

- i. 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
<pre><%@ page language="java" %></pre>
<%
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.
%>
<%
String sURL = "index_defaultDomain.html";
<pre>String sRequestURL = request.getRequestURL().toString().toLowerCase();</pre>
String[] asMap = {
"domain2.com", "index_comain2.ntml",
};
for(int i=0; asMap!=null && i <asmap.length; i+="2)" td="" {<=""></asmap.length;>
<pre>String sDomain = asMap[i].toLowerCase();</pre>
if(sRequestURL_indexOf(sDomain)!=-1) {
sURL=asMap[i+1];
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.



17.3 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 AhsayOBS 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



17.4 Customizing the Look and Feel of the web interface

The Look and Feel (e.g. font size and color) of the web interface of AhsayOBS 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 AhsayOBS 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 (Original)
<pre>/* menu bar - background color; text color, weight */ .usermenu_menubar { background-color: #FFCC00; color: #000000 font-weight: normal }</pre>

Extract of jsp_en.css (updated)
<pre> /* menu bar - background color; text color, weight */ .usermenu_menubar { background-color: red; color: #000000 font-weight: normal }</pre>

iii. Restart your browser to see the changes

17.5 Customizing all text of the web interface

All text displayed on the web interface of AhsayOBS 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 AhsayOBS (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 AhsayOBS backup services to see the changes

17.6 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 AhsayOBS (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 AhsayOBS 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.

17.7 Localizing the software

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



18 Advanced Configuration

The default installation of AhsayOBS 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 fulfill your special needs.

18.1 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 AhsayOBS from port 80 and 443 to some other port numbers by:

i. Open %INSTALL_DIR%\conf\server.xml



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 AhsayOBS
- 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

	Manage System Manage Lo	g Manage User	Administrator's Guide Select Langu
S windy Chante Backep Server	Server Configuration Rout	ine Job Software License Replication Config Other Options	Loc
Switch to Ahsay™ Replication Server	System Settings		
Introduction	Login Name	; system	
nderstanding Ahsay Online Backup Suite	Password	:	
Ahsay [™] Offsite Backup Server (AhsayOBS) a server application which offers online backup	Host Name	a backup.yourcompany.com:8080	
Ahsay™ Online Backup Manager	System Home	: C:\Program Files\AhsayObs55\system	
whsayOBM) is a full-featured client application sed to backup data to the AhsayOBS.	User Homes	1. C:\Program Files\AhsayObs55\user	
Ahsay™ A-Click Backup (AhsayACB) is a lite		New	
/ from the AhsayOBS.	Email System Settings		
Ahsay™ Replication Server (AhsayRPS) ovides an offsite store for backed up data from ultiple AhsayOBSs.	SMTP Server	Host Name Login Name Password I. mail.your-company.com New	=
Getting Started with AhsayOBM	Report Sender	Name EMail Backup Manager report@your-company.com	
Getting Started with AhsayACB V Key Features V	Administrator Contact	: Name EMail 1. System Admin admin@your-company.com New	
Documentations V	Language of System Reports	English	
system management	🔲 Use Proxy		
Contact us	Туре	: HTTP 💌	
	Proxy Host	: Port :	
	Proxy Username	: (optional)	
	Proxy Password	: (optional)	
	📕 Use Windows Active Di	rectory (AD) Authentication	
	Domain Name	:	
t [INSTALL_FOLDER] \ webapps \ ROOT \ lib \	Domain Controller IP	:[]	
mmon is to customize your company logo and the mes of softwares. After that, you can delete the intent of "RenameProcedure" to remove this line.	Domain Controller Name RemoveAhsayOBS	: iris.ahsay.com :	ays, AhsavOBS will delete this user
	Powered by Ahsay Online Backup S Copyright (c) 1999-2008	offware, Standard Evaluation Edition	Buy Licenses On

18.2 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 AhsayOBS 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 <="" classname="org.apache.coyote.tomcat5.CoyoteConnector" td=""></connector>
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"/>
Define a SSL HTTP/1.1 Connector on port 443
<connector <="" classname="org.apache.coyote.tomcat5.CoyoteConnector" td=""></connector>
<pre>address="0.0.0.0" port="443" maxHttpHeaderSize="8192" maxKeepAliveRequests="1" maxThreads="1000" minSpareThreads="25" maxSpareThreads="100"</pre>
enableLookups="Talse" disableUploadTimeout="true"
keystoreFile="conf/keystore" keystorePass="changeit"
clientAuth="false" sslProtocol="TLS" connectionTimeout="600000"/>

ii. Change the [address] values (shown in red and bold above) to the IP addresses that are to be used for AhsayOBS. 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 AhsayOBS

If you are going to use IIS along with AhsayOBS 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 AhsayOBS (by default IIS will use the all IP addresses available). Failing to do so will result in failing to start both IIS and AhsayOBS at the same time.

This chapter describes all other features available in the software.

18.3 Backing up AhsayOBS

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 AhsayOBS.

18.4 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"



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></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>
<param-value>localhost</param-value>
```



```
</init-param>
<init-param>
<param-name>Range2</param-name>
<param-value>192.168.1.1-192.168.1.255</param-value>
</init-param>
<init-param>
<param-name>Range3</param-name>
<param-value>192.168.2.1-192.168.2.255</param-value>
</init-param>
```

iv. Restart AhsayOBS



19 External APIs

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

19.1 Overview

AhsayOBS 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 AhsayOBS in external API as "GMT%2d08%3a00+%28PST%29".

19.2 IP Restrictions

To avoid AhsayOBS's APIs from being exploited by hackers from an unauthorized network, AhsayOBS, 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>
<pre><init-param> <pre>cparam-name>Rangel</pre>/param-name> <pre>cparam-value>localhost</pre>/param-value> </init-param></pre>
 <init-param> <param-name>Range2</param-name> <param-value>192.168.1.1-192.168.1.255</param-value></init-param>

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.lPFilter</filter-class>
```



```
<init-param>
  <param-name>Rangel</param-name>
  <param-value>localhost</param-value>
  </init-param>
  <init-param>
  <param-name>Range2</param-name>
  <param-value>192.168.1.1-192.168.1.255</param-value>
  </init-param>
  <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>
  </param-value>192.168.2.1-192.168.2.255</param-value>
  </param-value>192.168.2.1-192.168.2.255</param-value>
  </param-value>192.168.2.1-192.168.2.255</param-value>
  </param-value>192.168.2.1-192.168.2.255</param-value>
  </param-value>192.168.2.1-192.168.2.255</param-value>
  </param-value>192.168.2.1-192.168.2.255</param-value>
  </param-value>192.168.2.1-192.168.2.255</param-value>
  </param-value>100
```

iv. Restart AhsayOBS

19.3 User Authorization

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

URL:				
	http://BACKUP_SERVER/obs/api/AuthUser.do			
Para	ameters:			
	Кеу	Value	Descriptions	
	SysUser	String	AhsayOBS's System Username	
	SysPwd	String	AhsayOBS's System password	
	LoginName	String	Login name of the user	
	Password	String	Password of the user	
Return Value:				
	If successful, returns <ok></ok> If there is an error, returns <err>%ERROR_MESSAGE%</err>			
Example:				
	http://BACKUP_SERVER/obs/api/AuthUser.do?SysUser=system&SysPwd=system&LoginName=test&Password=abc			

19.4 Adding User

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

URL	JRL:			
	http://BACKUP_SERVER/obs/api/AddUser.do			
Para	ameters:			
	Key	Value	Descriptions	
	SysUser	String	AhsayOBS's System Username	
	SysPwd	String	AhsayOBS'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, "lt" = 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 (AhsayACB 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]	



	EnableMySQL	Boolean	Whether to enable MySQL module for the new user, e.g. [Y N]
	EnableInFileDelta	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]
	EnableExchangeMailbox	Boolean	Whether to enable Brick Level Microsoft Exchange module for the new user, e.g. [Y N]
	ExchangeMailboxQuota	Number	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) GMT-11:00 (WST) GMT-04:00 (AMT) GMT+04:00 (AQTST) GMT+08:00 (IRKST) GMT-11:00 (NUT) GMT-04:00 (ART) GMT+04:00 (AQTST) GMT+08:00 (PHT) GMT-10:00 (HADT) GMT-03:00 (RST) GMT+04:00 (CST) GMT+08:00 (SGT) GMT-10:00 (HST) GMT-03:00 (RST) GMT+04:00 (CSAT) GMT+08:00 (UAT) GMT-10:00 (HST) GMT-03:00 (WST) GMT+04:00 (SAT) GMT+09:00 (JAT) GMT-10:00 (CKT) GMT-03:00 (WST) GMT+04:00 (RET) GMT+09:00 (YST) GMT-09:00 (CAMT) GMT-03:00 (SRT) GMT+04:00 (RET) GMT+09:00 (YAT) GMT-08:00 (PST) GMT-01:00 (CST) GMT+10:00 (EST) GMT+10:00 (DUT) GMT-08:00 (PST) GMT-01:00 (CAT) GMT+05:00 (VFT) GMT+10:00 (PMT) GMT-08:00 (PST) GMT-01:00 (CAT) GMT+05:00 (VTT) GMT+10:00 (CBT) GMT-08:00 (PST) GMT-01:00 (CAT)
	Notes	String	
	Fmail	String	New user's contact email
	SendWelcomoMail	String	
Det		Sung	[1 M]
Reti			
	If successful, returns <ok></ok> If there is an error, returns <err>%ERROR MESSAGE%</err>		
Exa	Example:		
	http://BACKUP_SERVER/obs/api/AddUser.do?SysUser=system&SysPwd=system&LoginName=test&Password=abc&Alias=Testing&L anguage=en&Email=abc%40abc%2Ecom&Type=PAID&Quota=100000&UserHome=E%3A%5C&EnableMSSQL=Y&EnableMSExchan ge=Y&EnableOracle=Y&EnableLotusNotes=Y&EnableLotusDomain%2Ecom&Contact2=paul&Email2=paul%40anotherDomain%2E com&EnableFxchangeMailbox=Y&ExchangeMailboxQuota=10&ClientTypa=OBM		

19.5 Modifying User Profile

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

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



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	Language	String	User's language, e.g. [en cs da de es fr fi is it ja It 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) User's type, e.g. [TRIAL PAID]
	ClientType	String	User's client type, e.g. [OBM ACB]
	Status	String	
	Sialus	Sung	
	Quota		
		String	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]
	EnableMySQL	Boolean	Whether to enable MySQL module for this user, e.g. [Y N]
	EnableInFileDelta	Boolean	Whether to enable In-File Delta module for this user, e.g. [Y N]
	EnableShadowCopy	Boolean	Whether to enable Shadow Copy module for this user, e.g. [Y N]
	EnableExchangeMailbox	Boolean	Whether to enable Brick Level Microsoft Exchange module for this user, e.g. [Y N]
	ExchangeMailboxQuota	Number	The number of Microsoft Exchange mailboxes allowed for this user.
	AppendContact	String	Whether to append or overwrite contact information [Y N]
	Contact1	String	Extra contact name. Notes, There can be more than one extra name added, extra contact name
	Email1	String	must be in pair with extra email below Extra contact a mail. Notes. There can be more than one extra amail added, extra contact amail
		Sung	must be in pair with extra contact name above
			$\begin{array}{llllllllllllllllllllllllllllllllllll$
	Bandwidth	Number	0 = Unlimited Bandwidth
	Notes	String	
Retu	Irn Value:		
	If successful, returns <of< th=""><th></th><th></th></of<>		
Exa	וו מופוס אם מווטו, ופנטווא לפורי אבורי אב		
	http://BACKUP_SERVER &Language=en&Type=P/ nableOracle=Y&EnableLo main%2Ecom&Contact2=	/obs/api/Mo AID&Status= otusNotes= paul&Emai	difyUser.do?SysUser=system&SysPwd=system&LoginName=test&Password=abc&Alias=Testing =ENABLE&Quota=100000&UserHome=E%3A%5C&EnableMSSQL=Y&EnableMSExchange=Y&E Y&EnableLotusDomino=Y&AppendContact=Y&Contact1=john.john&Email1=john.john%40someDo I2=paul%40anotherDomain%2Ecom&EnableExchangeMailbox=Y&ExchangeMailboxQuota=10&CI



19.6 Deleting User

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

URL:				
	http://BACKUP SEF	RVER/obs/api/F	RemoveUser.do	
Par	ameters:			
	Key	Value	Descriptions	
	SysUser	String	AhsayOBS's System Username	
	SysPwd	String	AhsayOBS's System password	
	LoginName	String	Login name of user to be deleted	
Ret	Return Value:			
	If successful, returns <ok></ok> If there is an error, returns <err>%ERROR_MESSAGE%</err>			
Exa	imple:			
	http://BACKUP_SERVER/obs/api/RemoveUser.do?SysUser=system&SysPwd=system&LoginName=test			

19.7 Listing Users

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

URL:					
http://BACKUF	http://BACKUP_SERVER/obs/api/ListUsers.do				
Parameters:	Parameters:				
Key	Value	Descriptions			
SysUser	String	AhsayOBS's System Username			
SysPwd	String	AhsayOBS's System password			
Return Value:					
If successful,	returns				
<users> <users> <user loginna<br="">Tim Dai Rei Ena Ena Ena Ena Ena Sta Sta <contact nam<br=""></contact></user> </users></users>	<users> <user <br="" alias="" clienttype="OBM" loginname="john" quota="" usertype="">Timezone="GMT+08:00 (CST)" Language="en" DataFile="1234" DataSize="1234" RetainFile="1234" RetainSize="1234" EnableMSSQL="Y" EnableMSExchange="Y" EnableOracle="Y" EnableLotusNotes="Y" EnableLotusDomino="Y" EnableMySQL="Y" EnableLotusDomino="Y" EnableShadowCopy="Y" EnableExchangeMailbox2Y ExchangeMailboxQuota=10 Bandwidth="0" Notes="" Status="ENABLE" RegistrationDate=" 1185249951156" > <contact email="john@yourcompany.com" name="John (Email2)"></contact> </user> </users>				
If there is an e	If there is an error, returns <err>%ERROR_MESSAGE%</err>				
Where LoginNam Alias = uss UserType ClientType Quota = q Timezone Language DataFile = DataSize = RetainFile RetainFile RetainSize EnableMS EnableMS EnableCot EnableLot EnableLot EnableLot	LoginName = login name Alias = user's alias UserType = user type [PAID TRIAL] ClientType = client type [OBM ACB] Quota = quota in bytes Timezone = user's time zone Language = user's language 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 RetainSize = total amount of bytes in the retention area EnableMSSQL = MS SQL enabled [Y N] EnableOracle = Oracle enabled [Y N] EnableLotusNotes = Lotus Notes enabled [Y N] EnableLotusDomino = Lotus Domino enabled [Y N] EnableMSSQL = 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) Example:		http://BACKUP_SERVER/obs/api/ListUsers.do?SysUser=system&SysPwd=system
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:
		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)

19.8 Getting User Information

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

URL:					
http://BACKUP S	ERVER/obs/api/0	<u>GetUser.do</u>			
Parameters:					
Key	Value	Descriptions			
SysUser	String	AhsayOBS's System Username			
SvsPwd	String	AhsavOBS's System password			
LoginName	String	The user's login name			
Poturn Value:	j				
If successful, rotu	rpc				
ii successiui, ietu	1115				
<user loginname<br="">Status Timez DataFi Retain Uncorr Enable Enable Enable Exchar UserH Regist <contact <br="" alias="" clienttype="OBM" john"="" name="
</user></th><th colspan=5> <user LoginName=" usertype="PAID">Status="ENABLE" Quota="53687091200" Timezone="GMT+08:00 (CST)" Language="en" DataFile="1234" DataSize="1234" UncompressedSize="55837504" EnableMSSQL="Y" EnableMSExchange="Y" EnableOracle="Y" EnableLotusNotes="Y" EnableOracle="Y" EnableLotusNotes="Y" EnableInFileDeita="Y" EnableMySQL="Y" EnableInFileDeita="Y" EnableMySQL="Y" ExchangeMailboxQuota="0" Bandwidth="0" Notes="" UserHome="C:\Program Files\Offsite Backup Server\user\john" RegistrationDate="1185249951156" MailboxUsage="11" > <contact email="john@yourcompany.com" name="John (Email1)"></contact> </contact></user>					
If there is an error	, it returns <err>%</err>	%ERROR_MESSAGE%			
Where LoginName = login name Alias = user's alias UserType = user type [PAID TRIAL] ClientType = client type [OBM ACB] Status = status of user account [ENABLE SUSPENDED] (added since v.5.2.2.5) Quota = quota in bytes Timezone = user's timezone Language = user's language DataFile = total number of files in the data area DataSize = total amount of bytes in the retention area RetainFile = total number of files in the retention area UncompressedSize = total amount (bytes) of uncompressed file size in data area EnableMSEQL = MS SQL enabled [Y N] EnableMSExchange = MS Exchange enabled [Y N] EnableOracle = Oracle enabled [Y N] EnableLotusNotes = Lotus Notes enabled [Y N] EnableDoracle = MSQL enabled [Y N] EnableDoracle = NySQL enabled [Y N] EnableMSSQL = MS SQL enabled [Y N] EnableDiffileDetta = In-file Detta enabled [Y N] EnableFileDetta = In-file Detta enabled [Y N] EnableShadowCopy = Shadow Copy enabled [Y N] EnableShadowCopy = Shadow Copy enabled [Y N] EnableShadowCopy = Shadow Copy enabled [Y N] EnableShadowCopy = Shadow Copy enabled [Y N] EnableShadowCop					
UserHome = 1 RegistrationD	he directory when ate = registation	e AhsayOBS stores the backup files and backup logs (added since v.5.2.2.5) date of user account (added since v.5.2.2.5)			
MailboxUsage	e = 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

19.9 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:			
	http://BACKUP_SERVER	१/obs/api/Ad	dBackupSet.do
Para	ameters:		
	Кеу	Value	Descriptions
	SysUser	String	AhsayOBS's System Username
	SysPwd	String	AhsayOBS's System password
	LoginName	String	The user's login name
Retu	urn Value:		
	If successful, returns		
	<backupset id="1122260638375"></backupset>		
	If there is an error, returns <err>%ERROR_MESSAGE%</err>		
	where		
Evample:			
1	http://BACKUP_SERVER/obs/api/AddBackupSet.do?SysUser=system&SysPwd=system&LoginName=John		

19.10 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.

URI	L:		
	http://BACKUP_SERV	ER/obs/api/[DeleteBackupSet.do
Par	ameters:		
	Key	Value	Descriptions
	SysUser	String	AhsayOBS's System Username
	SysPwd	String	AhsayOBS'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	mple:		
	http://BACKUP_SERVER/obs/api/DeleteBackupSet.do?SysUser=system&SysPwd=system&LoginName=John&BackupSetID=1122260 638375		

19.11 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.

URL:				
	http://BACKUP_SERVER/obs/api/ListBackupSets.do			
Para	ameters:			
	Key	Value	Descriptions	
	SysUser	String	AhsayOBS's System Username	
	SysPwd	String	AhsayOBS's System password	
	LoginName	String	The user's login name	
Return Value:				
f successful, returns <backupsets> -BackupSet D_ [4000564060220] Name "BackupSet 4" Type "File" (</backupsets>				
	<backupset id="1099561060222" name="BackupSet" 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
Exai	nple:
	http://BACKUP_SERVER/obs/api/ListBackupSets.do?SvsUser=svstem&SvsPwd=svstem&LoginName=.lohn

19.12 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_SER	VER/obs/api/G	etBackupSet.do		
Parameters:				
Key	Value	Descriptions		
SysUser	String	AhsayOBS's System Username		
SysPwd	String	AhsayOBS's System password		
LoginName	String	The user's login name		
BackupSetID	String	The backup set ID		
Return Value:				
If successful, returns	;			
<pre> Name="FileBackupS TransferBlockSize=" AdminUsername="" OracleSID="" Port=" LogRetentionDays=" LanDomain="" LanU LastBackupRun="11 EnableInFileDelta="" EnableShadowCopy LastBackupComplet DeleteTempFile="N" TotalBackupSetSize TotalBsetRetainFileS <selectedsource>E: <selectedsource>D</selectedsource></selectedsource></pre>	5521983552" iet-1" 131072" Follow AdminPasswor " Host="" 60" NotesINI=" sername="" La 68658269937" (" MinDeltaFile ="Y" EnableOff ed="116865825 SqlServer="" L ="1064224" Tol Size="40579168 \temp\Test.txt<	SymbolicLink="N" Type="FILE" d="" WorkingDir="D:\temp" "BackupSystemState="N" nPassword="" LastBackupAccess="1168658296640" Size="26214400" DeltaBlockSize="-1" MaxNumOfDelta="100" MaxDeltaRatio="50" lineBackup="Y" EnableLogoutBackup="N" 07156" BackupIntervalDay="1" BackupIntervalHour="0" LogoutType="" OfflineNotificiationDay="7" befaultDeltaType="" TotalUncompressedDataSize="2988032" NumberOfFiles="6" talBSetRetainUncompress="139301468" TotalBSetRetainFileNo="92" 3" ScheduleHost="John">		
<dailyschedule id="<br"><weeklyschedule id<br="">Hour="23" Minute="(<monthschedule id<br="">Duration="-1" Backu <customschedule id<br="">Duration="-1"/> <filter id="1168669;
ApplyToFile=" y"=""><p <retentionpolicy un<br=""><retentionsetting id<br=""><setting id="116866
Tue=" n"="" t<br="" wed="N"><setting id="116866
Sun=" mon="N" n"="" tu<br=""><setting id="116866
Sun=" mon="N" n"="" t<br=""><setting id="116866
Sun=" mon="N" n"="" t<br=""><setting id="116866
Mon=" n"="" tue="N" w<br=""><setting h<="" id="116866
Mon=" n"="" th="" tue="N"><td>116866911642 ="1168669135 " Duration="8" ="11686691425 pType="FILE"/> ="1168669167 208375" Name: attern>*.docit="CUSTOMIZ 0="1168669352 99443453" Nam hu="N" Fri="N" 99452343" Nam 404="N" Thu="N 99466796" Nam 19466796" Nam 19464781" Nam 404="N" Wed="N 99493468" Nam (ed="N" Thu="N 99493468" Nam (ed="N" Thu="N</td><td>1" Name="BackupSchedule" Hour="23" Minute="0" Duration="-1" BackupType="FILE"/> 671" Name="BackupSchedule" Sun="N" Mon="N" Tue="N" Wed="N" Thu="N" Fri="N" Sat="Y" BackupType="FILE"/> 93" Name="BackupSchedule" Occurrenace="First" Criteria="Day" Date="1" Hour="23" Minute="0" > "078" Name="BackupSchedule" BackupType="FILE" Date="2007-12-31" Hour="23" Minute="0" ="Filter-1" Type="END_WITH" TopDir="C:\" Include="Y" Only="N" ApplyToDir="N" attern></td></setting></setting></setting></setting></setting></setting></retentionsetting></retentionpolicy></p </filter> E" Period="7"> 281" Name=" OverlapSensitive="Y"> e="Retention Policy-1" Type="DAILY" NumOfCopiesToKeep="7" DateType="" Sun="N" Mon="N" Sat="N" Day="1" Week="1" Month="1" Year="2007"/> e="Retention Policy-2" Type="WEEKLY" NumOfCopiesToKeep="4" DateType="" Sun="N" "Fri="N" Sat="Y" Day="1" Week="1" Month="1" Year="2007"/> e="Retention Policy-3" Type="MONTHLY" NumOfCopiesToKeep="12" DateType="EXACT" "Thu="N" Fri="N" Sat="N" Day="1" Week="1" Month="1" Year="2007"/> e="Retention Policy-4" Type="MONTHLY" NumOfCopiesToKeep="12" DateType="EXACT" "Thu="N" Fri="N" Sat="N" Day="1" Week="1" Month="1" Year="2007"/> e="Retention Policy-4" Type="QUARTERLY" NumOfCopiesToKeep="4" DateType="EXACT" "Thu="N" Fri="N" Sat="N" Day="32" Week="1" Month="1" Year="2007"/> e="Retention Policy-5" Type="YEARLY" NumOfCopiesToKeep="4" DateType="EXACT" "Thu="N" Fri="N" Sat="N" Day="32" Week="1" Month="1" Year="2007"/> e="Retention Policy-5" Type="YEARLY" NumOfCopiesToKeep="4" DateType="EXACT" "Thu="N" Fri="N" Sat="N" Day="32" Week="1" Month="1" Year="2007"/> e="Retention Policy-5" Type="YEARLY" NumOfCopiesToKeep="7" DateType="EXACT" "Thu="N" Fri="N" Sat="N" Day="32" Week="1" Month="1" Year="2007"/> e="Retention Policy-5" Type="YEARLY" NumOfCopiesToKeep="7" DateType="EXACT" Sun="N" "Fri="N" Sat="N" Day="31" Week="1" Month="1" Year="2007"/> e="Retention Policy-5" Type="YEARLY" NumOfCopiesToKeep="7" DateType="EXACT" Sun="N" "Fri="N" Sat="N" Day="31" Week="1" Month="1" Year="2007"/></customschedule></monthschedule></weeklyschedule></dailyschedule>	116866911642 ="1168669135 " Duration="8" ="11686691425 pType="FILE"/> ="1168669167 208375" Name: attern>*.docit="CUSTOMIZ 0="1168669352 99443453" Nam hu="N" Fri="N" 99452343" Nam 404="N" Thu="N 99466796" Nam 19466796" Nam 19464781" Nam 404="N" Wed="N 99493468" Nam (ed="N" Thu="N 99493468" Nam (ed="N" Thu="N	1" Name="BackupSchedule" Hour="23" Minute="0" Duration="-1" BackupType="FILE"/> 671" Name="BackupSchedule" Sun="N" Mon="N" Tue="N" Wed="N" Thu="N" Fri="N" Sat="Y" BackupType="FILE"/> 93" Name="BackupSchedule" Occurrenace="First" Criteria="Day" Date="1" Hour="23" Minute="0" > "078" Name="BackupSchedule" BackupType="FILE" Date="2007-12-31" Hour="23" Minute="0" ="Filter-1" Type="END_WITH" TopDir="C:\" Include="Y" Only="N" ApplyToDir="N" attern>		



Mon="N" Tue="N" Wed="N" Thu="N" Fri="N" Sat="N" Day="25" Week="1" Month="12" Year="2007"/>
<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 <="" apr="F" criteria="Friday" date="1" feb="F" jan="F" jun="F" mar="F" may="F" occurrenace="First" td=""></deltamonthlyschedule>
JUL="F" AUG="F" SEP="F" OCT="F" NOV="F" DEC="F"/>
If there is an error, returns
<pre></pre> (UserCacheManager] User 'Johnny' not found
<err>Backup Set for ID='1065821983563' not found</err>
where under
Tag <backup_set></backup_set>
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 or last backup
EnableinFileDeita = enabling in-tile delta feature
MinDeltaFileSize = minimum delta file size setting field
DeltaBlockSize = delta block size setting field
MaxNumOrDeita = maximum delta number setting field
MaxDeitaRatio = maximum deita ratio setting neid
EnableSnadowCopy = enabling snadow copy reature field
EnableOnimeBackup = enabling onime copy realute field
EnableLogoutBackup = enabling rogout Backup realure neid
i ulibackup – eliabiling iuli backup lielu LastBackup Completed – time when the last backup was completed
BackupherralDay – Offine backup day interval
Backupintervalay – Offline backup day interval
OfflineNotificiationDay – Offline backun email reminder days
DeleteTempFile = Remove temporary files after backup
Solderver = Sol server bostname
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
Tag < DailySchedule >
ID = schedule ID
Name = schedule name
Hour = time setting for such schedule
Minute = time setting for such schedule
Duration = how long to run. Use -1 for "Stop on completion"
Backup type = Backup set type
I ag < vveekiyschedule >
ID = schedule ID
Name = schedule name
Sun = enable field
won = enable field
I ue = enable Tield
veu -enable field



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	Sat = enable field
	Hour = time setting for such schedule
	Minute = time setting for such schedule
	Duration = how long to run. Use -1 for "Stop on completion"
Тэ	Backup i ype = Backup set type
ıα	ID = schedule ID
	Name = schedule name
	Date = exact day of the month. When "0" use occurrence and criteria.
	Occurrence= 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
	Minute = time setting for such schedule
	Packurs – Rockurs act three
Та	a c (usionschedule >
	D = schedule D
	Name = schedule name
	BackupType = Backup set type
	Date = the date to run this schedule
	Hour = time setting for such schedule
	Minute = time setting for such schedule
Tai	a clifters
ıα	ID = filter ID
	Name = filter name
	Type = filter type
	TopDir = the top most directory to apply this filter
	Include = filter mode
	Only = filter mode
	Apply four = applying to such directory
Та	
ιu;	Pattern = the filter pattern to apply
Та	g < RetentionPolicy >
	Unit= type for the retention policy, by JOB, DAYS, or CUSTOMIZE
_	Period= days for the policy
Та	g < RetentionSetting >
	ID = retention ID
Та	overlapseristive = enable reactine setting
īα	D = retention ID
	Name = retention name
	Type = retention type. Allowed values are [DAILY WEEKLY MONTHLY QUARTERLY YEARLY CUSTOM
	NumOfCopiesToKeep = number of copies to keep
	Date Type = normally empty. Use "EXACT" when the date is known.
	Sun, Mon, Lue, Wed, Thu, Fri, Sat = days enabled
Тэ	Day, week, Mohini, teal = date enabled
ıα	
	Name = pre-command name
	Path = path for such pre command
	WorkingDir = directory for such pre-command
Та	g < PostBackupCommand >
	ID = post command ID
	Name = post command name
	rati = patri or such post command Workland Dir – directory for such post command
Ta	
·u	ENABLED = enable "Extra Local Copy" feature field
	Zip = zip the copied file feature
	BackupTo = location to save extra copy
	SkipOffsiteBackup = whether to skip off-site backup
-	SetLocalCopyPermission = set local copy permission
Ta	g < DeitaWeekiySchedule>
Та	sun, won, rue, weg, rhu, Fri, Sat = advance delta weekly schedule enabled. [1]D[F]
īa	y < Detication in your tedule?
	Occurrence = occurrence to run e.g. First Second Third. Forth Last
	Criteria = day to run e.g. Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec = advance monthly schedule enabled. [D F]
mn	
μh	
1.44	

19.13 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://BAC	KUP_SERVER/obs/api/l	JpdateBackupSet.do	
Parameters:			
Key	Value	Descriptions	
SysUser	String	AhsayOBS's System Username	
SysPwd	String	AhsayOBS's System password	
LoginNam	e String	The user's login name	
Profile	String	The whole content of backup set in XML format posted up when calling this API	
Return Value	:		
If success If there is	ful, returns <ok></ok> an error, returns <err>%l</err>	ERROR_MESSAGE%	
Example:			
http://BAC	http://BACKLIP_SERVER/obs/api/LindateBackupSet.do?SvsLiser=svstem&SvsPwd=svstem&LindinName=.john		

19.14 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.

URI	URL:		
	http://BACKUP_SERVER	R/obs/api/Lis	stBackupJobs.do
Par	ameters:		
	Кеу	Value	Descriptions
	SysUser	String	AhsayOBS's System Username
	SysPwd	String	AhsayOBS's System password
	LoginName	String	The user's login name
Ret	urn Value:		
	<pre>successiti, returns <backupsets> <backupset 2005-1;="" <backupjob="" id="2005-1; </BackupSets> If there is an error, return </pre></th><th>6638656"> 2-29-12-00- 2-30-12-00- 2-31-12-00- s <err>%EF</err></backupset></backupsets></pre>	00" /> 00" /> 00" /> RROR_MESSAGE%	
	Where under Tag <backupset> ID = backup set ID Tag <backupjob> ID = backup job ID</backupjob></backupset>		
Exa	mple: http://BACKUP_SERVER	R/obs/api/Lis	stBackupJobs.do?SysUser=system&SysPwd=system&LoginName=John

19.15 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.

UR	L:		
	http://BACKUP SE	ERVER/obs/api/L	_istBackupJobStatus.do
Par	ameters:		
	Key	Value	Descriptions
	SysUser	String	AhsayOBS's System Username
	SysPwd	String	AhsayOBS'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
Ret	urn Value:		
	If successful, retur	ns	



	<backupjobs backupdate="2007-01-02"> <backupjob <="" endtime="2007-01-02 02:01:04" id="2007-01-02-02-01-01" loginname="demo" starttime="2007-01-02 02:01:01" th=""></backupjob></backupjobs>
	BackupJobStatus="BS_STOP_SUCCESS" BackupSetID="1190692945178" />
	<backupjob <="" endtime="2007-01-02 16:45:48" id="2007-01-02-16-45-45" loginname="demo" starttime="2007-01-02 16:45:45" td=""></backupjob>
	BackupJobStatus="BS_STOP_SUCCESS" BackupSetID="1190692945178" />
	If there is an error, it returns <err>%ERROR_MESSAGE%</err>
	where under
	Tag <backupjobs></backupjobs>
	BackupDate = date of backup
	Tag <backupjob></backupjob>
	ID = backup job ID
	LoginName = user name
	Start lime = job start time
	End lime = job end time
	BackupJooStatus = the status of the backup job as follow:
	1. BS_STOP_SUCCESS = backup completed successfully
	2. BS_STOP_BY_SYSTEM_ERROR = backup stopped due to system error
	3. BS_STOP_BY_SCHEDULER = backup stopped by scheduler
	4. BS_STOP_BY_USER = backup stopped by user
	5. $B_{2}SIOP_{2}SIOP_{2}GUOTA_EACEEDE = backup stopped ude to quota exceeded$
	7 Be STOP SUCCESS WITH WARNING - backup completed with warnings
	8 BS STOP_SOUCCESS_WITH_WARNING = backup completed with warnings
	9 Empty – backup in progress
	10 Others = other client errors not defined above
	BackupSetID = backup set ID (added since $\sqrt{5} 2.5.0$)
Eva	
LXd	
	http://BACKUP_SERVER/obs/api/ListBackupJobStatus.do?SysUser=system&SysPwd=system&LoginName=John&BackupDate=2007-
	<u>01-08</u>

19.16 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_S	http://BACKUP_SERVER/obs/api/GetBackupJobReport.do			
Parameters:				
Key	Value	Descriptions		
SysUser	String	AhsayOBS's System Username		
SysPwd	String	AhsayOBS's System password		
LoginName	String	The user's login name		
BackupSetID	String	A backup set ID		
BackupJobID	String	A backup job ID		
Return Value:	•			
If successful, retu	ns			
<pre><info 1="" <="" <deletedfile="" <error="" <newfile="" <updatedfile="" <warn="" files="" lasti="" pre="" timestat=""></info></pre>	mp="2005-12-3 mp="2005-12-3 amp="2005-12- Modified="200 ize="374 Last LastModified= ize="374 Last	<pre>1 12:59:59" Message="??????" /> 1 12:59:59" Message="??????" /> 31 12:59:59" Message="?????" /> 5-12-31 12:59:59" Name="C:\abc.doc" Modified="2005-12-31 12:59:59"/> "2005-12-31 12:59:59" Name="C:\abc.doc" Modified="2005-12-31 12:59:59"/> "2005-12-31 12:59:59"/></pre>		
<pre></pre>	ize="374 Last stModified="2 ize="374 Last	Modified="2005-12-31 12:59:59"/> 005-12-31 12:59:59" FromFile="C:\abc.doc" ToFile="C:\abc.doc" Modified="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=1108
378758790&BackupJobID=2007-01-08-16-02-07

19.17 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:				
ht	tp://BACKUP_SERVER	/obs/api/Ge	etBackupJobReportSummary.do	
Param	neters:			
Ke	ey	Value	Descriptions	
Sy	ysUser	String	AhsayOBS's System Username	
Sy	ysPwd	String	AhsayOBS's System password	
Lo	oginName	String	The user's login name	
Ba	ackupSetID	String	A backup set ID	
Ba	ackupJobID	String	A backup job ID	
Return	n Value:			
lf	successful, returns			
<br If	NumOfUpdatedFiles="0" TotalUpdatedFilesSize="0" NumOfDeletedFiles="0" TotalDeletedFilesSize="0" NumOfUpdatedPermissionFiles="0" TotalUpdatedPermissionFilesSize="0" NumOfUpdatedPermissionFiles="0" TotalUpdatedPermissionFilesSize="0" If there is an error, returns <err>%ERROR_MESSAGE%</err>			
WI Ta	here under ag <backupjob> ID = backup job ID StartTime = backup jo JobStatus = status of NumOfErrorEntries = NumOfWarnEntries = NumOfWarnEntries = NumOfUpdatedFiles = TotalUpdatedFilesSiz NumOfDeletedFilesSiz NumOfDeletedFiles = TotalDeletedFiles =</backupjob>	bb start time b end time backup job number of inumber of ne new files si = number of e = update = number of = e deleted number of ne	b backup job errors backup job warnings w files ze f updated files d files size deleted files files size 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&BackupSe tID=1108378758790&BackupJobID=2007-01-08-16-02-07

19.18 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.

URL	URL:						
	http://BACKUP_SERVER/obs/api/ListBackupFiles.do						
Para	arameters:						
	Key Value Descriptions						
	SysUser String AhsayOBS's System Username						
	SysPwd String AhsayOBS'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				
Retu	urn Value:	•					
	<files> <file name="My Document Folder" type="DIR"></file> <file backupbyjob="2005-07-25-17-07-07" filesize="1712" inbackupjob="Current" lastmodified="1109233592750" name="changeStatus.bat" originalfilesize="187" type="FILE"></file> </files>						
Exa	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 xample:						
	http://BACKUP_SERVER/obs/api/ListBackupFiles.do?SysUser=system&SysPwd=system&LoginName=john&BackupSetID=11083787 58790&BackupJobID=2007-001-08-16-02-07&Path=C:\Documents%20and%20Settings\john.my.company.						

19.19 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:	JRL:						
	http://BACKUP_SERVER/obs/api/GetUserStorageStat.do						
Para	meters:						
	Key	Value	Descriptions				
;	SysUser String AhsayOBS's System Username						
1	SysPwd String AhsayOBS's System password						
1	LoginName	String	The user's login name				
	YearMonth	String	Year and month (yyyy-MM)				
Retu	rn Value:						
	If successful, returns <pre> </pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> </pre></pre></pre></pre></pre></pre></pre></pre>						



	<storage <="" date="2005-07-25" th=""></storage>
	DataSize="0" DataRawSize="0" DataNo="0"
	RetainSize="0" RetainRawSize="0" RetainNo="0"
	UploadSize="0" UploadRawSize="0" UploadNo="0"
	TotalStorageSize="0" TotalStorageBawSize="0" TotalStorageNo="0" />
	<pre>>Storage Date="2005.07.26"</pre>
	Colorage Data = 2000 01 20 20 20 20 20 20 20 20 20 20 20 20 20
	Bataloize U Dataloawoize U Datalou U Datalou U
	The lower and the second se
	lotalstorageSize= 0 TotalstorageRawSize= 0 TotalstorageNo= 0 />
	If there is an error, returns <err>%ERROR_MESSAGE%</err>
	where under
	Tag <statistics></statistics>
	YearMonth = month of a year
	AvgDataSize = average size in data area
	AvgDataRawSize = average size in data area (in bytes) (added since v5.2.5.0)
	AvgDataNo = average number of files in data area
	AvgRetainSize = average size in retention area
	AvgRetainRawSize = $average size in retention area (in bytes) (added since v5 2 5 0)$
	AvgRetainNo = average number of files in retention area
	Avgi lahadisi e – average unloaded size
	Avguplaadusize – avelage uplaaded size (in buton) (addad since u5 2.5.0)
	Avgupiodurawojze = average upiodueu size (in bytes) (addeu since v5.2.5.0)
	Avgupticative = average number of uploaded nies
	AvgTotalStorageStze = average size in storage
	Avg i otalstorage Rawsize = average size in storage (in bytes) (added since vs.2.5.0)
	Avg I otalstorageNo = average number of files in storage
	Tag_Storage>
	Date = the date of the statistics calculated
	DataSize = total data size uploaded
	DataRawSize = total data size uploaded (in bytes) (added since v5.2.5.0)
	DataNo = total data number
	RetainSize = total size in retention area
	RetainRawSize = total size in retention area (in bytes) (added since v5.2.5.0)
	RetainNo = total number in retention area
	UploadSize = total uploaded size
	UploadRawSize = total uploaded size (in bytes) (added since v5.2.5.0)
	UploadNo = total uploaded number
	TotalStorageSize = total size of storage
	TotalStorageRawSize = total size of storage (in bytes) (added since $\sqrt{5}250$)
	TotalStoraceNo = total storace number
- ve	
zxal	
	http://BACKUP_SERVER/obs/api/GetUser StorageStat.do?SysUser=system&SysPwd=system&LoginName=john&YearMonth=2005-
	07

19.20 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 AhsayOBS.

UR	URL:							
	http://BACKUP_SERVER/obs/api/ListUsersStorage.do							
Par	ameters:							
	Key Value Descriptions							
	SysUser String AhsayOBS's System Username							
	SysPwd	String	AhsayOBS's System password					
Ret	urn Value:							
	If successful, returns							
	If successful, returns <users> <user <br="" alias="" loginname="john" quota="" usertype="">EnableMSSQL="Y" EnableMSExchange="Y" EnableOracle="Y" EnableLotusNotes="Y" EnableLotusDomino="Y" EnableMySQL="Y" EnableInFileDelta="Y" EnableMySQL="Y" EnableExchangeMailbox=Y ExchangeMailboxQuota=10 DataSize="1234" DataFile="1234" RetainSize="1234" RetainFile="1234" RetainSize="1234" RetainFile="1234" Status="SUSPENDED" ClientType="OBM" Language="en" > <contact email="john@yourcompany.com" name="John (Email1)"></contact> </user></users>							



	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]
	ExchangeMaliboxQuota = MS Exchange Malibox Quota
	Data-lie = total number of files in the data area
	DataSize = total amount of bytes in the data area
	RetainFile = total number of hits in the retaining area
	ClentTune – Clent tune LOBM LACB 1
_	one with the - one with the Logar Lines 1
Exar	npie:
	http://BACKUP_SERVER/obs/api/ListUsersStorage.do?SysUser=system&SysPwd=system

19.21 Get License

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

URL	URL:							
	http://BACKUP_SERVER/obs/api/GetLicense.do							
Para	Parameters:							
	Key Value Descriptions							
	SysUser String AhsayOBS's System Username							
	SysPwd	String	AhsayOBS's System password					
Retu	Irn Value:							
	If successful, returns <license <br="" expirydate="Unlimited" obsversion="5.2.4.3" productname="Offsite Backup Suite, OEM Edition">SupportExpiryDate="2008/10/31" MaxQuota="Unlimited"><obm available="498" quota="500" used="2"></obm><acb <br="" quota="500">Available="500" Used="0" AcbUsedObmUsers="0"/><msexchange available="499" quota="500" used="1"></msexchange><grackeddised="1"></grackeddised="1"><grackeddiseddiseddiseddised="2"></grackeddiseddiseddiseddised="2"><msexchangequota="500" available="299" used="1"></msexchangequota="500"><grackeddiseddiseddiseddiseddiseddiseddiseddis< td=""></grackeddiseddiseddiseddiseddiseddiseddiseddis<></acb></license>							
	If there is an error, returns <err>%ERROR_MESSAGE%</err> Where ProductName = product name of AhsayOBS ObsVersion = version of AhsayOBS ExpiryDate = expiry date of AhsayOBS SupportExpiryDate = support expiry date of AhsayOBS MaxQuota = maximum quota of AhsayOBS Quota = quota Available = unused quota Used = used quota Used = used quota AcbUsedObmUsers = number of AhsayACB users which used the quota of AhsayOBM users OBM = AhsayOBM users ACB = AhsayACB users MSExchange = MS Exchange Brick level module MSSQL = MSSQL module OracleUsers = Oracle module MySQL = MySQL module LotusDomino = Lotus Notes module InFileDetta = In-file delta module							
Exa	mpie:	/obs/ani/Cr	at iconso do 2 Suel loor-system & Sus Duid-system					
	nttp://BACKUP_SEKVEK/obs/api/GetLicense.do/SysUser=system&SysPwa=system							



19.22 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 AhsayOBS. (added since v5.2.5.0)

URL	URL:							
	http://BACKUP_SERVER/obs/api/GetReplicationMode.do							
Para	ameters:							
	Key Value Descriptions							
	SysUser String AhsayOBS's System Username							
	SysPwd	String	AhsayOBS's System password					
Retu	urn Value:							
	If successful, returns <replication mode="DISABLED"></replication> Or <replication file="D:\Test-
Data\obs52\user\kwong\files\1194504073875\Current\0x5f\0x3d\0xd2\0xc3\1103301195" mode="UNSYNC"></replication> Or <replication file="D:\Test-Data\obs52\user\kwong\files\1194504073875\Current\0x5f\0x3d\0xd2\0xc3\1103301195" mode="SYNC"></replication> Or <replication file="D:\Test-Data\obs52\system\logfiles\log0001.alf" mode="LOGGING"></replication> If there is an error_returns_corp_%ERPOP_MESSAGE%(c/orp_							
Exar	Where Mode = mode of replication as follow: 1. DISABLED = disabled replication 2. LOGGING = logging mode 3. UNSYNC = un-synchronization mode 4. SYNC = synchronization mode File = current replicating file							
Retu	http://BACKUP_SERVER ameters: SysUser SysPwd Jurn Value: If successful, returns <replication mode="DIS,
Or
<Replication Mode=" uns<br="">Data\obs52\user\kwong\f Or <replication mode="UNS
Data\obs52\user\kwong\f
Or
<Replication Mode=" uns<br="">Data\obs52\user\kwong\f Or <replication mode="LOG
If there is an error, return
Where
Mode = mode of repli
1. DISABLED =
2. LOGGING = I
3. UNSYNC = u
4. SYNC = sync
File = current replicat
ample:
http://BACKUP_SERVER</th><th>Value
String
String
ABLED"></replication> SYNC" File="D GING" File="D GING" File="D GING" File="D GING" File="D C" File="File</replication></replication>	etReplicationMode.do Descriptions AhsayOBS's System Username AhsayOBS's System password ="D:\Test- D4073875\Current\0x5f\0x3d\0xd2\0xc3\1103301195"/> :\Test-Data\obs52\user\kwong\files\1194504073875\Current\0x5f\0x3d\0xd2\0xc3\1103301 =="D:\Test-Data\obs52\system\logfiles\log0001.alf"/> RROR_MESSAGE% eitzation mode imode etReplicationMode.do?SysUser=system&SysPwd=system						

19.23 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 AhsayOBS. (added since v5.2.5.0)

URL	URL:						
	http://BACKUP SERVE	http://BACKUP_SERVER/obs/api/SendForgotPasswordEmail.do					
Para	ameters:						
	Key	Value	Descriptions				
	SysUser String AhsayOBS's System Username						
	AhsayOBS's System password						
	LoginName String Login name of the user						
Retu	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						

19.24 Additional APIs

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

20 Frequently Asked Questions

The chapter contains a list of frequently asked questions

20.1 How to backup AhsayOBS?

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

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

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

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.

20.2 How can I rebuild an AhsayOBS server from scratch?

To rebuild an AhsayOBS 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 AhsayOBS as Windows services.
- vi. Startup the backup services

20.3 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
- iii. 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]

20.4 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] -> [Ahsay Offsite Backup Server]
- 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] -> [Ahsay Offsite Backup Server]



20.5 How can I tell which AhsayOBM version is being used to run a backup job?

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

Fu		Backup R	eport	Generated at: Tu	e Aug 12 18:31:05 CST 200
Bac	kup Jo	b Summary		Backup Job Statistics	147
Login	Name	NewAccount		New Files*	4 [8.4M / 8.8M (5%)]
Back	up Set	New Backup Set (121853)	6810931)	Updated Files*	0 [0 / 0 (0%)]
Back	dof dr	2008-08-12 (18:27)		Permission Updated Files*	0 [0 / 0 (0%)]
Job S	tatus	Backup finished success	fully	Deleted Files*	0 [0 / 0 (0%)]
Back	up Time	2008/08/12 18:27 - 2008/0	8/12 18:27 (CST)	Moved Files*	0 [0 / 0 (0%)]
				* Unit = No of files [Total file zi	oped size / Total file size (ratio)
			Backup	Lons	
No	Type	Timestamn	Backup Logs		
1	Info	2008/08/12 18:27	Start [Windows)	(P (WINDOWS-USER). Ahsav	OBM 5.5.1.0]
2	Info	2008/08/12 18:27	Start running pre	-commands	
3	Info	2008/08/12 18:27	Finished running	pre-commands	
4	Info	2008/08/12 18:27	Start running pos	st-commands	
5	Info	2008/08/12 18:27	Finished running	post-commands	
			New F	iles	
No	D	irs / Files		Zinned / Size [Ratio]	Last Modified
1	C			1.5k / 0.[0%]	Luot mounted
2	C1	itest		1.5k/0.[0%]	
3	C	itest/test.mp3		8.4M / 8.8M [5%]	2008/07/17 10:12
4	C:	itestitest.txt		5k / 3.4k [0%]	2008/06/23 18:33
			Undated	Files	
No.	Fi	les		Zipped / Size [Ratio]	Last Modified
			No files have be	en updated.	
			Doumission Un	dated Files	
No	D	ire / Filon	Permission op	Tinned / Size [Patio]	Last Notified
nu.	U	15/1105	No Permissions have	e been undated	Last modified
				e seen apaalea.	
			Deleted	Files	
No.	Di	rs / Filés	No files have be	Zipped / Size [Ratio]	Last Modified
			NO MES NAVE DE	en deleted.	
			Moved I	Files	
No.	Fil	es		Zipped / Size [Ratio]	Last Modified
			No files have be	een moved.	

20.6 How to run AhsayOBS under non-root user under Linux/Unix?

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

- i. Shutdown AhsayOBS 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 --dport 443 -j REDIRECT --to-port 9443
or
[root@backup] # iptables -t nat -A PREROUTING -p tcp -d x.x.x.x --dport 80 -j REDIRECT --to-port
9080
[root@backup] # iptables -t nat -A PREROUTING -p tcp -d x.x.x.x --dport 443 -j REDIRECT --to-
port 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 9443
or
[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 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	Content of /etc/xinetd.d/http						
<pre># Redirects any requ # (where AhsayOBS is</pre>	<pre># Redirects any requests on port 80 to port 9080 # (where AhsayOBS is listening for HTTP traffic)</pre>						
<pre>service http { socket_type protocol user wait port redirect disable= no }</pre>	<pre>= stream = tcp = root = no = 80 = localhost 9080</pre>						

Content of /etc/xinetd.d/https						
<pre># Redirects any requ # (where AhsayOBS is</pre>	ests on port 443 to port 9443 listening for HTTPS traffic)					
service https {						
socket_type protocol user wait port redirect disable= no	= stream = tcp = root = no = 443 = localhost 9443					
}						

b. Restart the xinetd service by

[root@backup] # service xinetd restart

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

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

viii. Open the AhsayOBS 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 AhsayOBS 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 AhsayOBS is listening on port 9080 and port 9443. Also, you can use "ps aux" to verify that AhsayOBS is started under the user "obs".

	Sample output of verification commands above							
[root@ba	[root@backup] # netstat -a							
Active 1	Interne	et connections (serve	rs and established)					
Proto Re	ecv-Q S	Send-Q Local Address	Foreign Address	State				
tcp	0	0 *:http	*:*	LISTEN				
tcp	0	0 *:https	*:*	LISTEN				
tcp	0	0 *: 9080	*:*	LISTEN				
tcp	0	0 *: 9443	*:*	LISTEN				
[root@ba	ackup]	# ps aux						
obs	894	0.3 11.1 778064 5713	36 ? S 12:30 1:06					
/usr/loc	/usr/local/obs/java/bi							

20.7 How do I start up AhsayRPS as AhsayOBS?

Assumptions:

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

Please do this on AhsayRPS:

- 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 AhsayOBS 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.

20.8 How do I move AhsayOBS to a new IP address?

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

- i. Update your DNS record of the hostname of your AhsayOBS 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 AhsayOBS installation to another IP address and restart the backup services of AhsayOBS 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 AhsayOBS 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]

20.9 How do I move AhsayOBS to a new server?

To move an existing AhsayOBS 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"
- d. 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 AhsayOBS as Windows services.
- vi. Startup the backup services

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



Internal Error no. 1011

Or

Internal Error no. 1012

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 AhsayOBS server
- ii. Submit a ticket to Technical Support, quoting "Internal Error no. 1011" or "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 AhsayOBS server again and the error will be gone

20.10 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.

20.11 Can I perform an integrity check on all backup files stored under AhsayOBS?

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

- i. Browse to [AhsayOBS 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 AhsayOBS files any corrupted files

Please refer to the <u>Rebuild User Storage section</u> for more information.



21 Troubleshooting

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

21.1 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 AhsayOBS 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 AhsayOBS on Linux Kernel 2.6, you could have run into the compatibility problem of running Java program on Linux Kernel 2.6 (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]

21.2 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
- iv. 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.

21.3 AhsayOBS 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.



22 Appendixes

22.1 Contact Us

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