



Ahsay® Replication Server v5.5

Administrator's Guide

Ahsay™ Online
Backup - Development
Department

June 17, 2009

Ahsay® Replication Server v5.5

Administrator's Guide

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Author: Scherring Chong

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1 Overview

1.1 System Requirements

Server-side applications		
	Supported Platforms	Hardware Requirements
AhsayOBS 	<ul style="list-style-type: none"> Windows 2000 / 2003 (server recommended) Linux kernel 2.4 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 1.4.2 or above 	<ul style="list-style-type: none"> Memory: <ul style="list-style-type: none"> 512MB (minimum) 1GB (recommended) Disk Space: <ul style="list-style-type: none"> 300MB Network Protocol: <ul style="list-style-type: none"> TCP/IP (http/https)
AhsayRPS 	<ul style="list-style-type: none"> Windows 2000 / 2003 (server recommended) Linux kernel 2.4 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 1.4.2 or above 	<ul style="list-style-type: none"> Memory: <ul style="list-style-type: none"> 128MB (minimum) 512MB (recommended) Disk Space: <ul style="list-style-type: none"> 100MB Network Protocol: <ul style="list-style-type: none"> 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.

2 Installation

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

2.1 Get Started

Please refer to the [Installation and Upgrade Guide for Ahsay Replication Server](#).

2.2 Startup/Shutdown

To startup/shutdown AhsayRPS, please do the followings:

On Windows

- i. Logon as [Administrator] to Windows
- ii. Select [Ahsay Replication Server] service from:
 - For Windows NT
[Control Panel] → [Services]
 - Windows XP
[Control Panel]
→ [Performance and Maintenance]
→ [Administrative Tools]
→ [Services]
 - Windows 2000/2003
[Control Panel]
→ [Administrative Tools]
→ [Services]
- iii. To startup AhsayRPS, press the [Start] button
- iv. To shutdown AhsayRPS, press the [Stop] button

On Linux

- i. Logon as [root] to linux
- ii. To startup AhsayRPS, please run

```
[root]# sh $RPS_HOME/bin/startup.sh
```
- iii. To shutdown AhsayRPS, please run

```
[root]# sh $RPS_HOME/bin/shutdown.sh
```

2.3 Uninstall Software

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

On Windows

- i. Logon as [administrator] to windows
- ii. From [Control Panel] -> [Add or Remove Program]
- iii. Select [Ahsay Replication Server]
- iv. Press the [Change / Remove] button
- v. Press the [Uninstall] on the uninstall dialog
- vi. Remove the directory [C:\Program Files\Ahsay Replication Server] manually

On Linux

- i. Logon as [root] to linux
- ii. To uninstall AhsayRPS

```
[root]# sh $RPS_HOME/bin/uninstall.sh
```
- iii. Delete all files

```
[root]# rm -rf $RPS_HOME
```
- iv. Remove all user files manually if they are not stored under \$RPS_HOME
- v. (optional) Remove \$RPS_HOME and \$LD_ASSUME_KERNEL environment variables

3 Replication Config on AhsayOBS

This chapter describes how you can use the [Manage System] -> [Replication Config] page to manage the AhsayOBS replication module which allows you to perform real-time replication of all backup data and backup program files on the AhsayOBS to Ahsay Replication Server (AhsayRPS).

AhsayOBS replication module is designed to provide replication services for AhsayOBS only and it does not provide general replication service for other files within the system. This means that you cannot use AhsayOBS replication module to replicate your Windows server to another server.

3.1 Recommendation

AhsayOBS replication module makes heavy use of the [Manage System] -> [System Home] directory to create a consistent view of the backup file system under SYNC replication mode. Please make sure that you have set the [Manage System] -> [System Home] directory to a partition with many free space (at least 10GB) before turning on the AhsayOBS replication module.

3.2 Features

AhsayOBS replication module is specially designed for replicating both backup data and backup program executables to another server. Since it is an AhsayOBS aware replication module, it has the following benefits over using other external synchronizing software (e.g. rsync or Microsoft Replication Services) in the context of replicate backup data on AhsayOBS to another server:

i. Real time replication

When a backup block arrives at the backup server, it is automatically put into the replication queue. Data in the replication queue are replicated to AhsayRPS immediately (or at a delay of at most 2 minutes). No replication schedules or extensive checking of whether each file should be replicated are required

ii. Platform Independence

You can run AhsayOBS and AhsayRPS on any operating systems that you want. This means that you can have AhsayOBS running on Windows and AhsayRPS running on Linux (or other possible combinations).

iii. No intervention to backup system

Since AhsayOBS replication module will be replicating transaction log files, instead of the actual backup files, to the AhsayRPS, normal write access to the backup files won't be interrupted and this can ensure normal backup operation of AhsayOBS.

iv. Secured and compression connection

Replication data are transported under a 128-bit SSL and compressed channel. Data transferred between AhsayOBS and AhsayRPS are secured and optimized.

v. Transaction Log level replication

AhsayOBS replication module logs all transaction made on the AhsayOBS and replicates only the transaction log file to AhsayRPS. This means that only changes applies to the backup system data will be required to be replicated to the AhsayRPS.

vi. Replicating selective users from AhsayOBS to AhsayRPS

Starting from version 5.5, it is possible to select specific users of AhsayOBS to replicate to AhsayRPS, instead of just replicating the whole user-homes.

3.3 Overview

To understand how AhsayOBS replication module works, you first need to understand how transaction logged is performed and the different replication modes AhsayOBS can be in when AhsayOBS is running with the replication module enabled.

Replication settings are saved in [OBS_HOME] / conf / lfsconfig.xml and [OBS_HOME] / conf / rpsSend.xml.

Transaction Logging

When backup data arrives on the backup server, an extra copy of these data is saved in the transaction log files. (It only happens when AhsayOBS replication module is in logging or in SYNC. Please refer to the following sections for more information on replication mode.) Transaction log files will then be replicated to AhsayRPS and replayed into the backup files replicated to AhsayRPS already to produce a consistent backup image of all data available on the backup server.

Transaction log files are saved in [System Home] / logfiles / log?????.alf (e.g. log0395.alf where "0395" is the sequence number of the transaction log files). When using AhsayOBS with replication module enabled, please make sure that the [Manage System] -> [System Home] setting is set a disk partition with lots of disk space.

To provide a consistent view of the backup file system while AhsayOBS is running in SYNC mode, AhsayOBS uses the [System Home] / sync / *** directory to store many of the temporary files required. Please don't temper with this directory and make sure that it has lots of free space.

How replication runs

When AhsayOBS replication module is running, it can be in [UNSYNC], [SYNC] or [LOGGING] mode. To understand what are the meanings of these replication modes, it is important to understand how data get replicated to AhsayRPS from AhsayOBS.

i. Refreshing File

When AhsayOBS module is started up, it first replicates AhsayOBS program binaries and configuration files to AhsayRPS in its [Refreshing File] mode. No backup data under [System Home] and [User Homes] will be replicated to AhsayRPS by this task.

Since program binaries and configuration files rarely change and there are limited numbers of these files, this task should be able to complete fairly quickly.

During the execution of this task, transaction logging of AhsayOBS is disabled. Backup data write directly and only to the backup files.

ii. UNSYNC Replication

After the replication module has finished replicating all program binaries and configuration files, it will start replicating all files under the [System Home] and [User Homes] directories to AhsayRPS.

During the execution of this task, transaction logging of AhsayOBS is disabled. Backup data write directly and only to the backup files.

iii. SYNC Replication

Since it could take hours (or even days) to replicate all backup data from AhsayOBS to AhsayRPS, by the time all files under [System Home] and [User Homes] are worked through once, some files might have been added/removed from the directories. To ensure AhsayRPS contains an exact copy of all files available in [System Home] and [User Homes] directories on AhsayOBS, there should be no changes to all files under these directories during the replication process. To do so, AhsayOBS replication module will put AhsayOBS into a SYNC mode. It has the following effects:

- a. System data generated by AhsayOBS will now be saved to the transaction log files instead of to files under the [System Home] directory.
- b. There will be no changes to all files under the [User Homes] and [System Home] directories
- c. Before leaving the SYNC mode, AhsayOBS replication module will replay all transaction logs recorded to its supposed target files in the [User Homes] and [System Home] directories.

Upon the completion of this task, both AhsayOBS and AhsayRPS will then be synchronized. AhsayOBS should have all transaction logs replayed into the [User Homes] and [System Home] directories. Although the [User Homes] and [System Home] directories on AhsayRPS doesn't contains the changes after all transaction logs has been replayed, synchronization can be easily done by replicating the transaction log files over from AhsayOBS to AhsayRPS and replaying these transaction logs on AhsayRPS as it has been done on AhsayOBS.

iv. Transaction Logs Replication

Transaction log files are replicated from AhsayOBS to AhsayRPS in this task.

During the execution of this task, transaction logging of AhsayOBS is enabled. Backup data are written directly to the backup files that they are supposed to go to as well as to transaction log files.

Since data in the [User Homes] and [System Home] directories of AhsayOBS and AhsayRPS have been synchronized already in SYNC mode, it requires only replaying all transaction log files recorded after the beginning of the SYNC period on the AhsayRPS to bring AhsayRPS into a consistent state with AhsayOBS.

When there are no backup activities and all pending transaction log files have been replicated to AhsayRPS, transaction log files are replicated to AhsayRPS every 2 minutes (even when it is empty). This will ensure that partial records within the transaction log files get replicated to AhsayRPS in close to "real" time. Since compression is enabled by default, replicating an empty transaction log file doesn't take up too much network bandwidth.

v. Monthly RESYNC

To ensure that the replication server is in full sync with the backup server after lots of transaction logs have been applied on the replication server, a monthly RESYNC job will run on the first Saturday of each month at 1:00pm (noon) automatically, if replication is in LOGGING mode. This involves running "Refreshing Files", "UNSYNC Replication" and "SYNC replication" described above all over again (During the RESYNC, the UNSYNC mode is skipped if the replication process has been running in LOGGING mode within the last 7 days).

Workflow

The following is an example of entries that you are likely to find on the [Manage Log] -> [Replication Log] page.

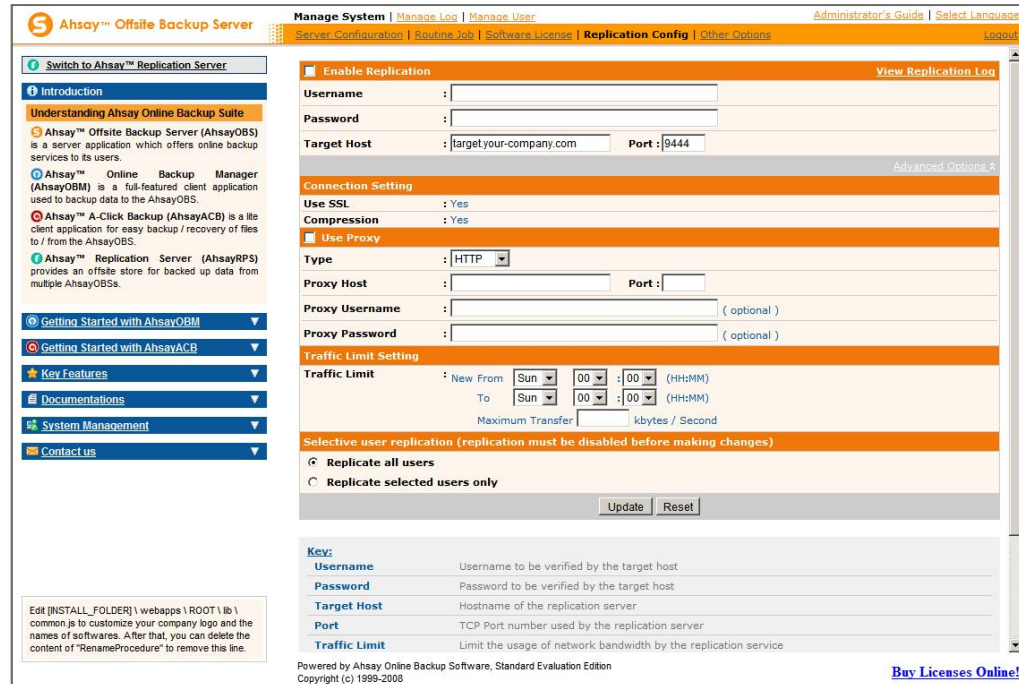
```
[Start] Replication
[Start] Refreshing File
...
Replicating '/usr/local/obs/logs/root_log.2005-07-13.txt' (1k)
...
[End] Refreshing File
[Start] Replicating files in UNSYNC mode
...
Replicating '/user/john/files/1119083740107/Current/0x0b/0xe5/0x17/0x99/158536666' (9k)
...
[End] Replicating files in UNSYNC mode
[Start] Replicating files in SYNC mode
...
Replicating '/user/john/files/1119083740107/Current/0x0b/0xe5/0x17/0x99/258976864' (20k)
...
[End] Replicating files in SYNC mode
...
Replicating '/dpl/system/logfiles/log0014.alf' (20M)
Replicating '/dpl/system/logfiles/log0015.alf' (20M)
Replicating '/dpl/system/logfiles/log0016.alf' (20M)
...
[End] Replication
```

3.4 Mandatory Replication Setting

To setup replication on AhsayOBS, please browse to [Manage System] -> [Replication Config] page on the web interface and do the followings:

- i. Make sure that you have setup and started a receiver for this AhsayOBS on the replication server

- ii. Enter the [Username], [Password], [Target Host] and [Port] text field on the configuration page
- iii. Check the [Enable Replication] checkbox
- iv. Press the [Update] button at the bottom of the page
- v. Finish (You can now use the [View Replication Log] link to review the replication logs)



Enable Replication [View Replication Log](#)

Username :
 Password :
 Target Host : Port :

Connection Setting

Use SSL : Yes
 Compression : Yes

Use Proxy

Type : HTTP
 Proxy Host : Port :
 Proxy Username : (optional)
 Proxy Password : (optional)

Traffic Limit Setting

Traffic Limit : New From : (HH:MM)
 To : (HH:MM)
 Maximum Transfer kbytes / Second

Selective user replication (replication must be disabled before making changes)

☒ Replicate all users
☐ Replicate selected users only

Key:

Username : Username to be verified by the target host
Password : Password to be verified by the target host
Target Host : Hostname of the replication server
Port : TCP Port number used by the replication server
Traffic Limit : Limit the usage of network bandwidth by the replication service

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Key	Description
Username	Username of the replication receiver on the replication server
Password	Password of the replication receiver on the replication server
Target Host	Host name (or IP address) of the replication server
Port	TCP port number used by the replication server for this receiver

The [View Replication Log] link will bring you to the [Replication Log](#) page. The [Advanced Options] link will open up some other optional configurable parameters on the page. The meanings of these parameters are described in the following sections.

3.5 Connection Setting

You can use the [Connection Setting] section under the [Manage System] -> [Replication Config] page to configure the connection parameters for replication traffic between AhsayOBS and AhsayRPS. There are only two configurable parameters, [Use SSL] and [Compression], available and they are described in the following table. Both [Use SSL] and [Compression] parameters must be configured to be the same on both AhsayOBS and AhsayRPS. In general, it is best to enable both SSL and compression for replication traffic (default).

Key	Description
Use SSL	Whether to use SSL (Secure Socket Layer) for replication traffic
Compression	Whether to compress replication traffic before sending it to the replication server

3.6 Use Proxy

You can use the [Use Proxy] section under the [Manage System] -> [Replication Config] page to configure whether you want to use proxy for replication traffic between AhsayOBS and AhsayRPS. There are a few configurable parameters available and they are described in the following table.

Proxy setting is an optional setting.

Key	Description
Use Proxy	Whether to use Proxy for replication traffic
Type	Proxy Type, e.g. HTTP or SOCKS
Proxy Host	Hostname or IP address of the proxy server
Proxy Port	TCP port number of the proxy server
Proxy Username (optional)	Username for the proxy server (if proxy authentication is required)
Proxy Password (optional)	Password for the proxy server (if proxy authentication is required)

3.7 Traffic Limit

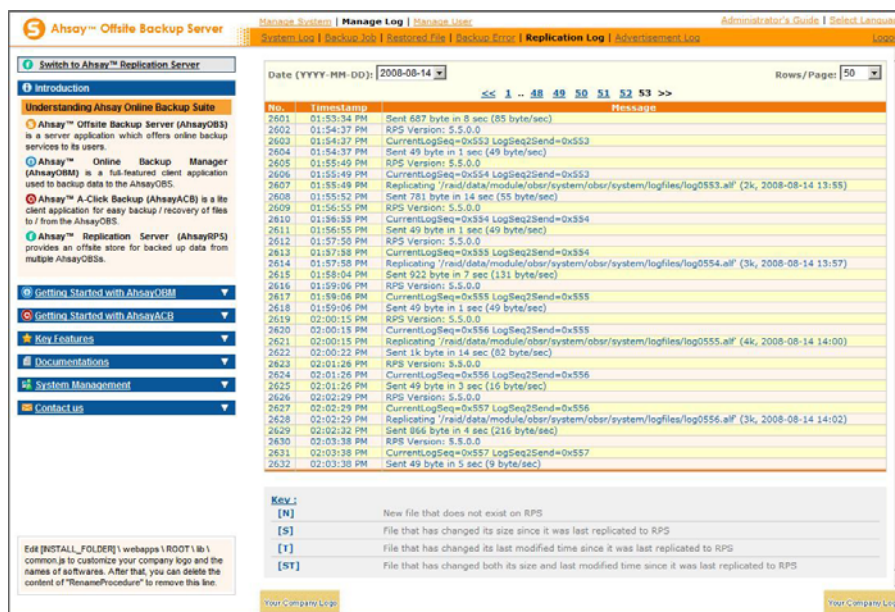
You can use the [Traffic Limit] section under the [Manage System] -> [Replication Config] page to limit the amount of bandwidth used by replication traffics between specified time. There are a few configurable parameters available and they are described in the following table. Traffic Limit is an optional setting.

You can set an all-time traffic limit by setting both [From] and [To] parameters to [Sun, 00:00].

Key	Description
Traffic Limit	Bandwidth Throttling for replication traffic
From	Start time of enforced traffic limit period
To	End time of enforced traffic limit period
Maximum Transfer	Maximum bandwidth used between the [From] and [To] period

3.8 Selective Users

You can use the [Selective user replication] section under [Manage System] -> [Replication Config] page to select specific users for replication.



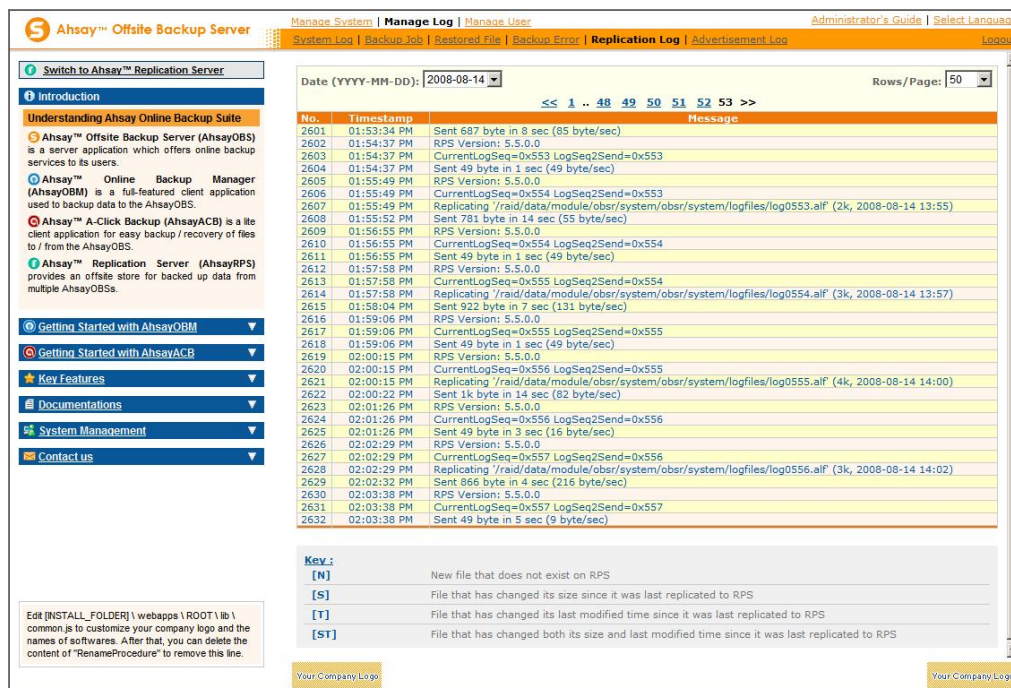
The definitions of keywords related to the settings in this section are shown in the table below:

Key	Description
Replicate all users	Replicate all the users in the user home without selection
Replicate selected users only	Replicate users selected only
No.	The count of user
Login Name (Alias)	The login name of the user, with Alias of the user bracketed behind
Used / Quota (%)	The size of data stored on the server by the user and the defined quota of size of the user. The percentage of used size over quota is also included at the end.
Replicate new users added from API	For any new user created by the Ahsay API, the data of the user will be replicated.
Replicate new users added from LDAP	For any new user created by Windows Active Directory and added to AhsayOBS, the data of the user will be replicated.
Replicate new free trial users	For any new trial users created, the data of the user will be replicated
Replicate new users added from web interface	For any new trial users created by AhsayOBS web-console, the data of the user will be replicated

To enable this function, simply select the [Replicate selected users only] under the section of [Selective user replication], and check the boxes next to the users which are going to be replicated. You can also set the [Default settings for new users] options, which can speed up the process of creating new user account by pre-set the default settings of new users.

3.9 Replication Log

You can review replication log by visiting the [Manage Log] -> [Replication Log] page.



Key:

- [N] New file that does not exist on RPS
- [S] File that has changed its size since it was last replicated to RPS
- [T] File that has changed its last modified time since it was last replicated to RPS
- [ST] File that has changed both its size and last modified time since it was last replicated to RPS

3.10 Restart replication service

You can restart the replication process completely from the beginning by doing the followings:

- On AhsayRPS, uncheck the [Manage Receiver] -> [Profile] -> [Enable Replication Module] checkbox and press the [Update] button

- ii. On AhsayOBS, uncheck the [Manage System] -> [Replication Config] -> [Enable Replication] checkbox and press the [Update] button
- iii. On AhsayRPS, check the [Manage Receiver] -> [Profile] -> [Enable Replication Module] checkbox and press the [Update] button
- iv. On AhsayOBS, check the [Manage System] -> [Replication Config] -> [Enable Replication] checkbox and press the [Update] button
- v. On AhsayOBS, visit the [Manage Log] -> [Replication Log] page to check if replication starts running

3.11 Troubleshooting

If you are running into problems making the replication process works as stated in previous sections, please check the followings:

- i. Make sure that the connection from AhsayOBS to AhsayRPS is not blocked by your firewall. You can test if the connection is blocked by your firewall by using the telnet command on AhsayOBS:

```
C:> telnet [AhsayRPS] [Port]
```

where

[AhsayRPS] = IP address of AhsayRPS

[Port] = TCP port used for replication (default port is 9444)

- ii. Try setting the [Manage System] -> [Replication Config] -> [Connection Setting] -> [Use SSL] to "No" on AhsayOBS and [Manage Receiver] -> [Profile] -> [Use SSL] to "No" on AhsayRPS and [restart the replication service](#).

If you are still having problems after checking everything above, please [contact us](#).

4 Manage System on AhsayRPS

This chapter describes how you can use pages under the [AhsayRPS Administration Console] -> [Manage System] menu to configure AhsayRPS.

4.1 Server Configuration

The [AhsayRPS Administration Console] -> [Manage System] -> [Server Configuration] page allows you to setup the system settings of an AhsayRPS.

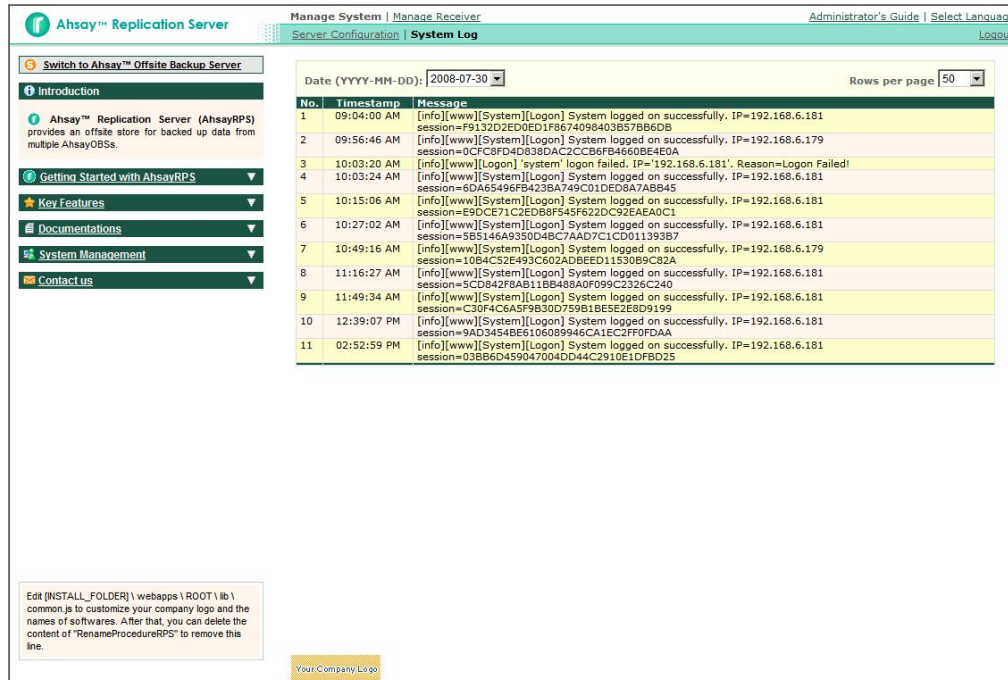
The screenshot displays the 'Server Configuration' page within the AhsayRPS Administration Console. The page is titled 'Ahsay™ Replication Server' and includes navigation links for 'Manage System', 'Manage Receiver', 'Administrator's Guide', 'Select Language', and 'Logout'. The main content area is divided into a left sidebar and a right panel. The sidebar contains links for 'Switch to Ahsay™ Offsite Backup Server', 'Introduction', 'Getting Started with AhsayRPS', 'Key Features', 'Documentations', 'System Management', and 'Contact us'. The right panel, titled 'System Setting', contains three input fields: 'System Username' (set to 'system'), 'System Password' (masked with dots), and 'System home directory' (set to '\\raid\data\module\obsr\system\obsr\ips-system'). Below these fields are 'Update' and 'Reset' buttons. A 'Key:' section provides descriptions for each field: 'System Username' is the system username, 'System Password' is the system password, and 'System home directory' is the directory for system data. A footer note instructs users to edit a JavaScript file to customize the company logo.

This section describes all settings under the [Server Configuration] menu.

Key	Description
System Username	Username for AhsayRPS administration console
System Password	Password for AhsayRPS administration console
System home directory	Directory where AhsayRPS stores all its system and log files

4.2 System Log

The [AhsayRPS Administration Console] -> [Manage System] -> [System Log] page shows you the running status of an AhsayRPS.



Ahsay™ Replication Server Manage System | Manage Receiver Administrator's Guide | Select Language Logout

Server Configuration | **System Log**

Switch to Ahsay™ Offsite Backup Server

Introduction

Ahsay™ Replication Server (AhsayRPS) provides an offsite store for backed up data from multiple AhsayOBs.

Getting Started with AhsayRPS

Key Features

Documentations

System Management

Contact us

Date (YYYY-MM-DD): 2008-07-30 Rows per page: 50

No.	Timestamp	Message
1	09:04:00 AM	[info][www][System][Login] System logged on successfully. IP=192.168.6.181 session=F9132D2ED0ED1F8674098403B57B66DB
2	09:56:46 AM	[info][www][System][Login] System logged on successfully. IP=192.168.6.179 session=0CF8FD4D838DAC2CCB6FB4660BE4E0A
3	10:03:20 AM	[info][www][Login] 'system' login failed. IP='192.168.6.181'. Reason=Login Failed!
4	10:03:24 AM	[info][www][System][Login] System logged on successfully. IP=192.168.6.181 session=6DA65496FB423BA749C01DED8A7ABB45
5	10:15:06 AM	[info][www][System][Login] System logged on successfully. IP=192.168.6.181 session=E9DCE71C2EDB8F549F62D0C92EAEAO0C1
6	10:27:02 AM	[info][www][System][Login] System logged on successfully. IP=192.168.6.181 session=5B5146A9350D4BC7AAD7C1CD011393B7
7	10:49:16 AM	[info][www][System][Login] System logged on successfully. IP=192.168.6.179 session=10B4C52E493C602ADBEED11530B9C82A
8	11:16:27 AM	[info][www][System][Login] System logged on successfully. IP=192.168.6.181 session=5CD842F8AB11BB488A0F099C2326C240
9	11:49:34 AM	[info][www][System][Login] System logged on successfully. IP=192.168.6.181 session=C30F4C6A5F9B30D759B1B5E5E8D09199
10	12:39:07 PM	[info][www][System][Login] System logged on successfully. IP=192.168.6.181 session=9AD34548E6106089946CA1EC2F0FDAA
11	02:52:59 PM	[info][www][System][Login] System logged on successfully. IP=192.168.6.181 session=03B66D459047004DD44C2910E1DFBD25

Edit [INSTALL_FOLDER] \ webapps \ ROOT \ lib \ common.js to customize your company logo and the names of softwares. After that, you can delete the content of "RenameProcedureRPS" to remove this line.

Your Company Logo

This section describes all settings under the [System Log] menu.

Key	Description
Date	The date when system log entries are recorded
Rows per page	Maximum number of rows showing in a page

5 Manage Receiver on AhsayRPS

This chapter describes how you can use pages under the [AhsayRPS Administration Console] -> [Manage Receiver] menu to configure receivers for AhsayRPS.

5.1 Add

To setup replication between AhsayOBS and AhsayRPS, the first step is to add a receiver to AhsayRPS using the [AhsayRPS Administration Console] -> [Manage Receiver] -> [Add] page. To create an AhsayRPS receiver, simply fill in the form below and press the [Add] button.

Ahsay™ Replication Server Manage System | Manage Receiver Administrator's Guide | Select Language Logout

New Replication Receiver

Switch to Ahsay™ Offsite Backup Server

Introduction

Ahsay™ Replication Server (AhsayRPS) provides an offsite store for backed up data from multiple AhsayOBSs.

Getting Started with AhsayRPS

Key Features

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Contact us

Key:

Login Name Login name to be authenticated by the replication server

Password Password to be authenticated by the replication server

Alias An alias of this replication account

Home Directory The directory where all replicated data are to be stored.

Listening Host Listening interface of replication server (e.g. 0.0.0.0 means listening to all available network interfaces, w.x.y.z means listening only to the w.x.y.z interface)

Port TCP Port number to be used by the replication server

Enable Enable replication services

0.0.0.0 Port: 9444

Enable: No

Add Reset

Edit [INSTALL_FOLDER] \ webapps \ ROOT \ lib \ common.js to customize your company logo and the names of softwares. After that, you can delete the content of "RenameProcedureRPS" to remove this line.

Your Company Logo

This section describes all settings under the [Add] menu.

Key	Description
Login Name	Login name of an AhsayRPS receiver to create
Password	Password of an AhsayRPS receiver to create
Alias	Alias of an AhsayRPS receiver to create
Home Directory	Directory where an AhsayRPS receiver will store all its data
Listening Host	IP address where this AhsayRPS receiver will wait for requests from AhsayOBS
Port	TCP port where this AhsayRPS receiver will wait for requests from AhsayOBS
Enable	TCP port from which this AhsayRPS receiver will wait for requests from AhsayOBS

5.2 List

The [AhsayRPS Administration Console] -> [Manage Receiver] -> [List] page lists all receivers configured on AhsayRPS.

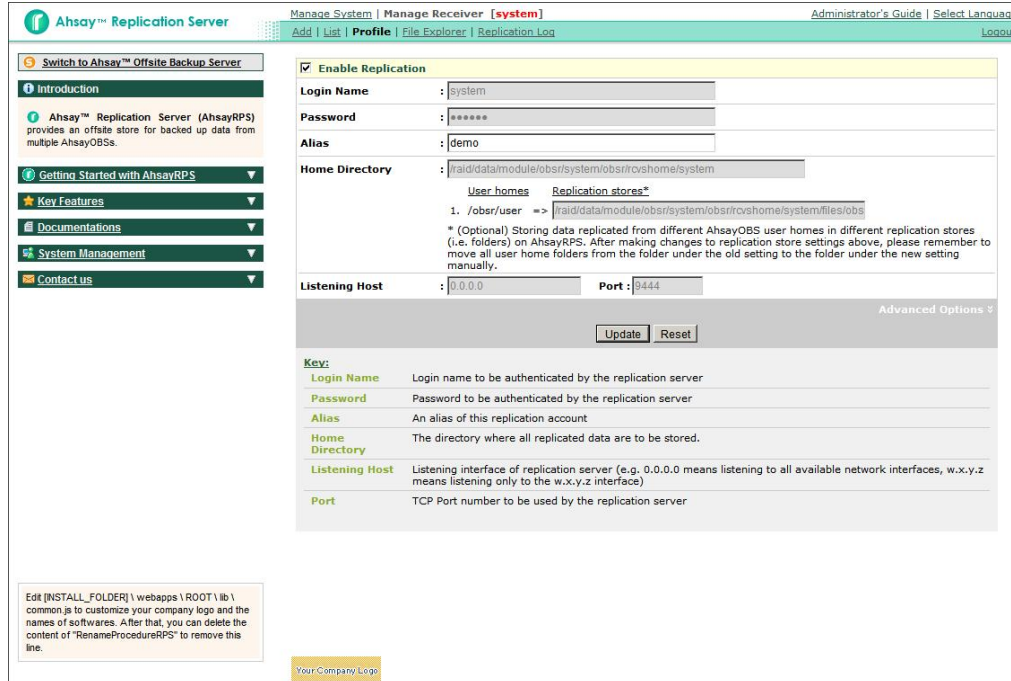
No.	Login Name	Listening Host	Enable	Use SSL	Compression		
1	system	0.0.0.0:9444	Yes	Yes	Yes	Detail	Remove
2	system2	0.0.0.0:9445	Yes	Yes	Yes	Detail	Remove

This section describes all settings under the [List] menu.

Key	Description
Login Name	Login name of an AhsayRPS receiver
Listening Host	Listening IP address and TCP port number of an AhsayRPS receiver
Enable	Enable/Disable AhsayRPS receiver
Use SSL	Whether to use SSL on an AhsayRPS receiver
Compression	Whether to use compression on an AhsayRPS receiver
Detail	Show the details of an AhsayRPS receiver
Remove	Remove an AhsayRPS receiver

5.3 Profile

The [AhsayRPS Administration Console] -> [Manage Receiver] -> [Profile] page shows the details of an AhsayRPS receiver.



The screenshot shows the Ahsay Replication Server Administration Console. The top navigation bar includes 'Manage System', 'Manage Receiver [system]', and 'Administrator's Guide | Select Language | Logout'. The left sidebar contains links like 'Switch to Ahsay™ Offsite Backup Server', 'Introduction', 'Getting Started with AhsayRPS', 'Key Features', 'Documentations', 'System Management', and 'Contact us'. The main content area is titled 'Enable Replication' and contains the following fields:

- Enable Replication:** A checkbox that is checked.
- Login Name:** A text field containing 'system'.
- Password:** A text field containing '*****'.
- Alias:** A text field containing 'demo'.
- Home Directory:** A text field containing '/raid/data/module/obsr/system/obsr/cvshome/system'. Below this field, there are two sub-sections: 'User homes' and 'Replication stores*'. Under 'User homes', there is a list item '1. /obsr/user => /raid/data/module/obsr/system/obsr/cvshome/system/files/obs'. A note below states: '* (Optional) Storing data replicated from different AhsayOBS user homes in different replication stores (i.e. folders) on AhsayRPS. After making changes to replication store settings above, please remember to move all user home folders from the folder under the old setting to the folder under the new setting manually.'
- Listening Host:** A text field containing '0.0.0.0'.
- Port:** A text field containing '8444'.

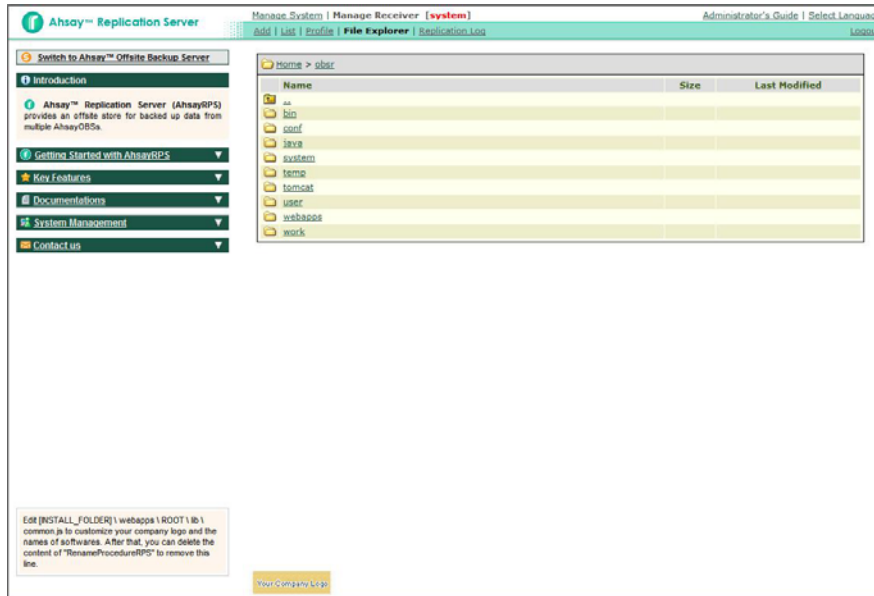
Below these fields are 'Update' and 'Reset' buttons. A 'Key:' section provides definitions for the fields: Login Name, Password, Alias, Home Directory, Listening Host, and Port. At the bottom left, there is a note about editing the INSTALL_FOLDER and a 'Your Company Logo' placeholder.

This section describes all settings under the [Profile] menu.

Key	Description
Enable Replication	Whether to enable/disable a receiver
Login Name	Login name of a receiver
Password	Password of a receiver
Alias	Alias of a receiver
Home Directory	Directory where all replicated data will be stored by a receiver
Listening Host	Listening IP address of a receiver
Port	Listening TCP port number of a receiver
Enable	Enable/Disable a receiver
Use SSL	Whether to use SSL on a receiver
Compression	Whether to use compression on a receiver
Traffic Limit	Throttled speed of a receiver. Set an all-time traffic limit by setting both [From] and [To] parameters to [Sun, 00:00].
Update	Update the configurations of a receiver
Reset	Reset all values to its original values

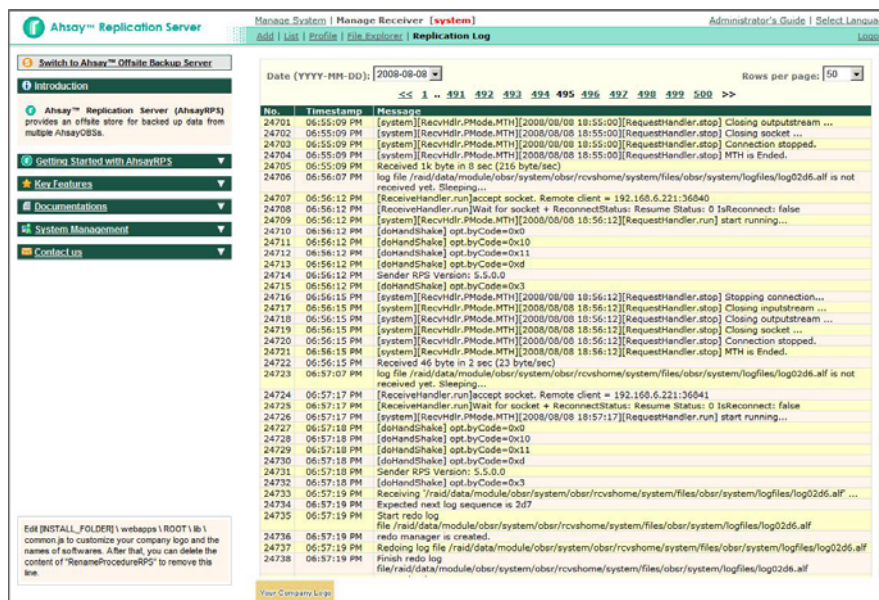
5.4 File Explorer

The [AhsayRPS Administration Console] -> [Manage Receiver] -> [File Explorer] page lists all receivers configured on AhsayRPS. It is currently not possible to restore replicated files from this page. As a workaround, you can restore files from AhsayRPS using the [Decrypt] tools available in AhsayOBM. Please refer to "[How do I restore files from AhsayRPS?](#)" for more information



5.5 Replication Log

The [AhsayRPS Administration Console] -> [Manage Receiver] -> [Replication Log] page lists all logs recorded by this receiver.



This section describes all settings under the [Replication Log] menu.

Key	Description
Date	The date when log entries are recorded
Rows per page	Maximum number of rows showing in a page

6 Other Configuration

6.1 Starting up Replication server as AhsayOBS

Assumptions:

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

If your AhsayRPS is running on NAS device, please refer to Chapter 5 on [AhsayNCU User's Guide](#) for the instructions to access AhsayOBS and AhsayRPS folder.

7 Frequently Asked Questions

The chapter contains a list of frequently asked questions on AhsayRPS.

7.1 How do I restore files from AhsayRPS?

Since backup files replicated from AhsayOBS to AhsayRPS are identical, you can use the [Decrypt Files Wizard] tool available in AhsayOBM to restore backup files from AhsayRPS. The instructions to do this are:

- i. Install AhsayOBM onto the computer running AhsayRPS
- ii. Open [AhsayOBM] from the system tray and logon to any AhsayOBS server available (Make sure that you have set the [Control Panel] -> [Administrative Tools] -> [Services] -> [Online Backup Scheduler] service to disable. Otherwise, scheduled backup job configured under this backup account will run on AhsayRPS, possibly causing backup data deletion)
- iii. Choose [Tools] -> [Decrypt File Wizard]
- iv. Use the [Browse] button to select the "files" directory which contains all backup files stored under a backup account (i.e. browse to the replicated user home, go down to the "files" directory, go further down to the [User Home] directory as specified on AhsayOBS, find the user account with the backup files you want to restore and finally select the "files" directory)
- v. Select the [Backup Set] (shown as numeric ID) containing the backup files you want to restore
- vi. Select the files that you want to restore and press the [Next] button
- vii. Set the [Decrypt files to] section, enter a valid decrypting key and press the [Start] button

7.2 Is it possible to assign user home from AhsayOBS to store under different partition on AhsayRPS?

By default, all backup files replicated from AhsayOBS will be replicated to AhsayRPS under a single directory. If you have 4 user homes each with 500GB of data on AhsayOBS, you need to have up to 2TB of free space on AhsayRPS under a single directory to store all replicated data. Currently, it is not possible to have replicated data split among different directories or different partitions.

8 **Appendixes**

8.1 Further Information

If you need any additional information, please submit your question to us using our [Helpdesk Ticketing System](#).