

TECHNICAL NOTE

ADD-RECOVERY-REINSTALLINGSTRM

FEBRUARY 2009

This document provides information about re-installing the software on STRM appliances from the recovery partition. When you re-install STRM, your system will be restored back to factory default configuration, meaning that your current configuration and data files will be overwritten.

This technical note includes:

- [About the Recovery Partition](#)
- [Adding the Recovery Partition to an Upgraded Appliance](#)
- [Your upgraded appliance now has a recovery partition.](#)

About the Recovery Partition

When you install STRM 2008.3, the installer (ISO) is copied into the recovery partition. When you upgrade to STRM 2008.3, you must run a utility that creates the recovery partition. From this partition, you can re-install STRM, which restores STRM to factory defaults.



Note: Any software upgrades you perform after you install STRM 2008.3 will replace the ISO file with newer version.

Whenever you reboot your STRM appliance, you will be presented with the option to re-install the software. If you do not respond to the prompt after 5 seconds, the system will boot as normal, thus maintaining your configuration and data files. If you choose to re-install STRM, a warning message appears and you must confirm that you want to re-install STRM. After confirmation, the installer is run and you can follow the prompts through the installation process.



Note: After a hard disk failure, you will be unable to re-install from the recovery partition, because it will no longer be available. If you experience a hard disk failure, contact Customer Support for assistance.

Adding the Recovery Partition to an Upgraded Appliance

If you upgraded your appliance to STRM 2008.3, the recovery partition will not be automatically created. You must run a utility that creates the recovery partition, validates and modifies the existing partitioning, and then loads the latest ISO into the recovery partition.



Note: This procedure is required only for STRM appliances that have been upgraded to 2008.3. The recovery partition is automatically included with fresh STRM 2008.3 appliance installations.



Warning: The `/store/iso` directory must contain the ISO file and the `.`. Before you proceed, confirm that the ISO file is stored in the `/store/iso` directory and the output of: `md5sum STRM2008.3.iso` matches the one published on the support site (MD5: 61857312656eedd8b22b24c412becf4d).

To add the recovery partition:

Step 1 Download the utility from the Juniper Customer Support website at <https://www.juniper.net/suport/>.

Step 2 Log in to STRM as root.

Step 3 Copy the utility to the `/tmp` folder.

Step 4 Modify the permissions on utility:

```
chmod 775 /tmp/add-recovery.sh
```

Step 5 Enter the command:

```
/tmp/add_recovery.sh
```

The following warning message appears:

```
WARNING: You are about to request the creation of a recovery
partition. This partition will allow for the re-installation of
your system during a reboot at a later time. This process does
not affect your system, but it will stop all services and
re-partition the hard disk. We recommend that you perform a
backup before proceeding. Once this process has started it must
be allowed to complete.
```

Step 6 Type `yes` to continue.

The utility validates and modifies the disk to accommodate the recovery partition, and then adds the partition. This may take 10 minutes to complete. The output resembles the following:

```
shutting down services
Shutting down system stability monitor: Killing process 7124.

[ OK ]

[Q] Shutting down hostcontext service: [ OK ]

Stopping httpd: [ OK ]
```

```

Shutting down tomcat: [ OK ]
Stopping imqbrokerd: [ OK ]
Stopping postgresql service: [ OK ]
Setup re-install boot support. [ OK ]
starting up services
Starting postgresql service: DB took 3 seconds [ OK ]
Starting imqbrokerd: [ OK ]
Starting tomcat: [ OK ]
Starting httpd: [ OK ]
[Q] Starting hostcontext service: [ OK ]
Starting system stability monitor: [ OK ]
Complete [ OK ]

```

Your upgraded appliance now has a recovery partition.

Re-installing STRM

To re-install STRM from the recovery partition:

Step 1 Reboot your STRM appliance.

A menu appears with the following options:

- Normal System - Starts STRM as normal.
- Factory re-install - Runs the installer.

Step 2 Select **Factory re-install**.

The following message appears:

```

Welcome to factory reset option.
You have selected the option to re-install your system. This
option returns all system settings to the factory defaults and
removes all existing data and configuration. This process is not
reversible.
If you do not wish to continue, type REBOOT at the prompt.
If you wish to continue, type FLATTEN at the prompt.
What would you like to do: reboot or flatten system?

```

Step 3 Enter **flatten** to continue.

The installer repartitions and reformats the hard disk, installs the OS, and then re-installs STRM. Wait for the flatten process to complete. This process can take up to several minutes, depending on your system. When the process is complete, the following appears:

```

OK: qsetup is completed.
Press ENTER to shutdown now or type NO to login now

```

Step 4 Enter **NO**.

Step 5 Log in to STRM:

Username: **root**

Password: **password**



Note: The username and password are case sensitive.

Step 6 Press Enter.

The End User License Agreement (EULA) appears.

Step 7 Read the information in the window. Press the Spacebar to advance each window until you have reached the end of the document. Type **yes** to accept the agreement, and then press Enter.

The appliance selection window appears.

Step 8 Select your appliance.

If the Tuning Template window appears, go to [Step 9](#)

If the Time Zone Continent window appears, go to [Step 13](#)

Step 9 To select a tuning template:

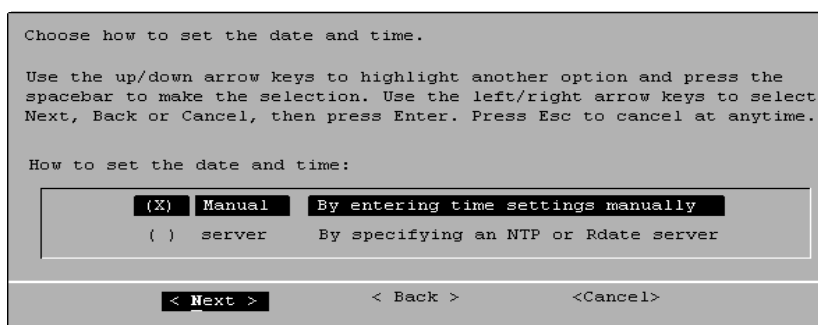
a Using the up/down arrow keys, select a tuning template:



Note: For more information about each template, see the *STRM Administration Guide*.

b Using the left/right arrow keys, select **Set Template**. Press Enter.

The Set Date and Time window appears.



Step 10 Using the up/down arrow keys, highlight the method you want to use to set the date and time, then use the spacebar to select that option:

- **Manual** - Allows you to manually input the time and date. Use the Tab key to select the **Next** option. Press Enter. The Current Date and Time window appears. Go to [Step 11](#).
- **Server** - Allows you to specify your time server. Use the Tab key to select the **Next** option. Press Enter. The Enter Time Server window appears. Go to [Step 12](#).

Step 11 To manually enter the time and date:

a Enter the current date and time.

- b Using the left/right arrow keys, select **Next**. Press Enter.
- c Go to [Step 13](#).

Step 12 To specify a time server:

- a In the text field, enter the time server name or IP address.
- b Using the left/right arrow keys, select **Next**. Press Enter.
The Time Zone Continent window appears.

```

Select a time zone continent/area to filter your choice of time zone
cities/regions.

Use the up/down arrow or the PgUp/PgDn keys to select a continent. Use
the left/right arrow keys to select a navigation option and press Enter.
Press ESC to cancel at anytime.
  
```

1	America
2	Antartica
3	Arctic
4	Asia
5	Atlantic
6	Australia
7	Europe
8	GMT

Step 13 To select the time zone continent:

- a Using the up/down arrow keys, or the page up/page down keys, select your time zone continent or area.
- b Using the left/right arrow keys, select **Next**, then press Enter.

The Time Zone Region window appears.

```

Select a time zone city or region.

Use the up/down arrow or the PgUp/PgDn keys to select a continent. Use
the left/right arrow keys to select a navigation option and press Enter.
Press ESC to cancel at anytime.
  
```

0	Adak (Aleutian Islands)
1	Anchorage (Alaska Time)
2	Anguilla
3	Antigua
4	Araguaina (Tocantins)
5	Argentina/Buenos_aires (Buenos Aires (BA, CF))
6	Argentina/Catamarca 9Catamarca (CT), Chubut (CH)
7	Argentina/Cordoba (most locations (CB, CC, CN, ER, FM, LP, MN, NQ
8	Argentina/Jujuy (Jujuy (JY))



Note: The options that appear in this window are regions that are associated with the continent or area previously selected.

- c Using the up/down arrow keys, or the page up/page down keys, select your time zone region.
- d Using the left/right arrow keys, select **Next**. Press Enter.
The Choose which Internet protocol to use window appears.

```

Choose which internet protocol version to use.

Use the up/down arrow keys to highlight another option and press the
spacebar to make the selection. Use the left/right arrow keys to select
Next, Back or Cancel, then press Enter. Press ESC to cancel at anytime.

IP version:

( ) ipv4   Internet Protocol version 4
(*) ipv6   Internet Protocol version 6

<Next>    < Back >    <Cancel>

```

Step 14 To choose which Internet protocol version to use:

a If you want to select IPv6:

- Using the up/down arrow keys, or the page up/page down keys, select **IPv6**.
- Using the left/right arrow keys, select **Next**. Press Enter.

The Enter the IP address to use for IPv6 window appears.

```

Enter the IP address to use for IPv6

Use the up/down arrows to navigate between fields. Use the Tab key and
then the left/right arrow keys to select Next, back or Cancel, then
press Enter. Press ESC to cancel at anytime.

Host name:   strm.juniper.net
IP address:
Email server:

< Next >    < Back >    <Cancel>

```

- Enter the IP address or name for the **Hostname**, **IP Address**, and **Email server**.
- Using the left/right arrow keys, select **Next**. Press Enter.

b If you want to select IPv4:

- Using the up/down arrow keys, or the page up/page down keys, select **IPv4**.
- Using the left/right arrow keys, select **Next**. Press Enter.

The Configure STRM window appears.

```

Configure 6.1.0.383 STRM:

Use the up/down arrows to navigate between fields. Use the Tab key and
press Enter. Press ESC to cancel at anytime.

Host name:   strm.juniper.net
IP address:
Network mask:
Gateway:
Email server:

Primary DNS:
Secondary DNS:
Public IP:

< Next >    < Back >    <Cancel>

```

Step 15 To configure the STRM network settings:

- a You must change the displayed default values. Using the up/down arrow keys to navigate the fields, enter values for the following parameters:
 - **Hostname** - Specify a fully qualified domain name as the system hostname.
 - **IP Address** - Specify the IP address of the system.
 - **Network Mask** - Specify the network mask address for the system.
 - **Gateway** - Specify the default gateway of the system.
 - **Primary DNS** - Specify the primary DNS server address.
 - **Secondary DNS** - Optional. Specify the secondary DNS server address.
 - **Public IP** - Optional. Specify the Public IP address of the server. This is a secondary IP address that is used to access the server, usually from a different network or the Internet, and is managed by your network administrator. The Public IP address is often configured using Network Address Translation (NAT) services on your network or firewall settings on your network. NAT translates an IP address in one network to a different IP address in another network.
 - **Email Server** - Specify the e-mail server. If you do not have an e-mail server, specify **localhost** in this field.
- b Use the TAB key to move to the **Next** option. Press Enter.

The New Root Password window appears.

```

Enter New Root Password.

Enter the password and press enter. To leave the password unchanged, do
not enter a value in the box. Use the Tab key and then the left/right
arrow keys to select Next, Back or Cancel, then press Enter. Press ESC
to cancel at anytime.

New Root Password:
-

< Next >      < Back >      <Cancel>
  
```

Step 16 To configure the STRM root password:

- a Enter your password.
- b Use the TAB key to move to the **Next** option. Press Enter.

The Confirm New Root Password window appears.

```

Confirm New Root Password.

Re-register the password and press enter. Use the Tab key and then the
left/right arrow keys to select Next, Back or Cancel, then press Enter.
Press ESC to cancel at anytime.

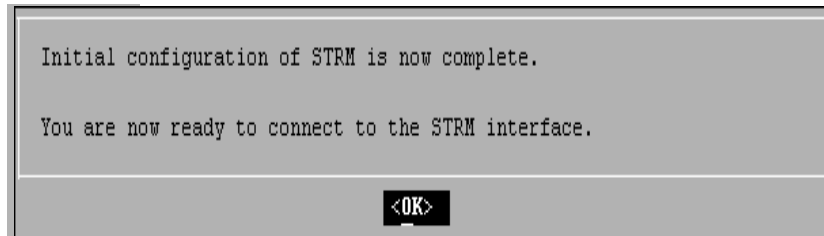
New Root Password (confirmation):
-

<Finish>      < Back >      <Cancel>
  
```

- c Re-enter your new password to confirm.
- d Use the TAB key to move to the **Finish** option. Press Enter.

A series of messages appear as STRM continues with the installation. This process typically takes several minutes.

The Configuration is Complete window appears.



Step 17 Press Enter to select **OK**.

You are now ready to access STRM.

Copyright Notice

Copyright © 2008 Juniper Networks, Inc. All rights reserved. Juniper Networks and the Juniper Networks logo are registered trademarks of Juniper Networks Inc. in the United States and other countries. All other trademarks, service marks, registered trademarks, or registered service marks in this document are the property of Juniper Networks or their respective owners. All specifications are subject to change without notice. Juniper Networks assumes no responsibility for any inaccuracies in this document or for any obligation to update information in this document. Juniper Networks reserves the right to change, modify, transfer, or otherwise revise this publication without notice.

Part Number 530-029434-01