Advanced Gateway 2330
Secure Router 2330

Software Release 10.2.2
Release Notes

1. Release Summary

Release Date: July 19, 2010
Purpose: Software maintenance release to support the Advanced Gateway product.

2. Notes for Upgrade of Secure Router

Please see the technical documentation for the Secure Router 2330 version 10.2 available at: http://www.nortel.com/support for details on how to upgrade your Secure Router unit.

When upgrading from 10.2 to this release if the user account's password was set in 10.2 and contains more than 9 characters, only the first 9 characters will be used after the upgrade.

3. Advanced Gateway Product

Release 10.2.2 is the initial release of the Advanced Gateway 2330 product. The Advanced Gateway 2330 interoperates with Avaya Aura and Avaya 9600 Series IP Desktop phones – as well as other Avaya and 3rd party call servers and phones. The product contains a suite of SIP gateway features, PSTN interface options, global signaling protocols and resiliency support. The Advanced Gateway 2330 supports 2 and 4 port FXS and FXO modules , ISDN BRI, and T1/E1 PRI module. This functionality is also in the Secure Router 2330 Product.

File Names for This Release

Description	File Size	Version	File Name
Advanced Gateway 2330 Application Image	30,063,756	10.2.2	AG2330.Z
Secure Router 2330 Application Image	30,063,756	10.2.2	SR2330.Z
Advanced Gateway 2330 MIB File	394,933	10.2.2	AG2330_10.2.2MIBs.zip
Secure Router 2330 MIB File	569,308	10.2.2	SR2330_10.2.2MIBs.zip

4. Version of Previous Release

Software Version 10.2.1

5. Compatibility

N/A

6. Converting between Advanced Gateway and Secure Router

Both the Secure Router 2330 and Advanced Gateway 2330 hardware support the Secure Router and Advanced Gateway Product with the appropiate licencing and software support.

The "file version" command now shows both the version of the image and whether the image is for the Secure Router 2330 or Advanced Gateway 2330 product. The output of the command looks at follows:

host# file version

WARNING :
Do not remove the Compact Flash during this process
Do not reboot this device during this process

Versions of files in /cf0/:
Filename: Version:
---------- ----------
found compressed file - skipping file body checksum
SR2330.Z 10.2.2.0 Image Type = Secure Router
found compressed file - skipping file body checksum
AG2330.Z 10.2.2.0 Image Type = Advance Gateway

The show system licences display in /cf0/:

6.1 Converting an Advanced Gateway to Secure Router

Converting the Advanced Gateway to Secure Router involves the following steps:

- Acquire an Advanced Gateway Upgrade License for Secure Router through Avaya Customer Support
- Install the Secure Router Software (SR2330.Z) on the 2330
- Set Boot Image to SR2330.Z
- Verify Boot Image with "file version" command
- Configure system license to Secure Router
- System reboots as a Secure Router 2300

For acquiring the Advanced Gateway license to convert to the Secure Router product you will need the serial number of the Advanced Gateway. This is the Serial Number of slot 0 not the Chassis Serial Number. To

determine the serial number of slot 0 use the ***show chassis*** command. The following page shows the output of the command and the actual serial number of slot 0 of this Advanced Gateway is highlighted:

```
host# show chassis

Chassis Model: AG2330
Chassis Operational Status: NORMAL

Chassis Serial number: LBNNTMJX9600GP
Chassis Rev: 11

Slot/SubSlot    Card-Type       Status       Serial#
-----------------------------------------------------
  0          MPU_A          NORMAL        LBNNTMJX960080  ← Serial Number Needed for Licenses
 INT          SCIM_A          NORMAL        LBNNTMJX97001H
 INT          PVIM_A          NORMAL        LBNNTMJX98001P
 0/7          SFP           Present       ---
 0/8          SFP           Present       ---
```

INT - Mainboard internal module.

After acquiring the conversion license number for your Advanced Gateway you will need to download the Secure Router Application Image (SR2330.Z) and Secure Router MIB file (SR2330_10.2.2MIBs.zip) from: http://www.nortel.com/support. Install SR2330.Z file on either /cf0 or cf1. For the conversion process described in these release notes it will be showing the install related to /cf0. Also install the Secure Router MIB files to management console which is being used to monitor the Advanced Gateway.

Below shows the sequence of converting to the Secure Router product:

```
HOST# show version
 Runtime: 10.2.2.0
 Created: Jun 18 2010, 18:44:48
 Type   : AG Image ← current Active Product – Advanced Gateway
   Boot: 0.0.0.42 (NORMAL Boot)
 NorBoot: 0.0.0.40
 GolBoot: 0.0.0.42


Slot/SubSlot  Card-Type  Status   CPLD-Exp CPLD-Main
-----------------------------------------------------
  0/-       MPU_A      NORMAL   ---      0x16
```

host# **show system licenses**

```
Licensed for advance gateway
Licensed PVIM channels = 8
Licensed SSM user capacity = 25
```

host# **file ls**

```
CONTENTS OF /cf0:

  size         date       time       name
--------       ------     ------    --------
30063756    JUN-22-2010  16:51:28   SR2330.Z
       1427    JUN-23-2010  17:51:34   system.cfg
30063756    JUN-22-2010  17:32:36   AG2330.Z

Total bytes: 90188426
Bytes Free on /cf0:  36118528
```

host# **file version**

WARNING :
Do not remove the Compact Flash during this process
Do not reboot this device during this process

Versions of files in /cf0/:
Filename: Version:
---------- ----------
found compressed file - skipping file body checksum
SR2330.Z 10.2.2.0 Image Type = Secure Router ← Secure Router Image Type
found compressed file - skipping file body checksum
AG2330.Z 10.2.2.0 Image Type = Advance Gateway ← Advanced Gateway Image Type
HOST#

hot# **configure term**
host/configure# **boot_params**
Boot dev [ftp,cf0,cf1] : cf0
Boot Ethernet Port [1-8] : 0
Boot file name : AG2330.Z SR2330.Z ← **Changing Boot Image to Secure Router**
Server name : host
Server IP address : 192.168.24.1
My IP address : 192.168.24.10
My subnet mask : 255.255.0.0
Gateway IP address :
User name : demo
Password :
Checksum enable [0:Disable,1:Enable]: 1
Show header enable [0:Disable,1:Enable]: 0
Save bootrom image [0:AutoUpdate,1:NormalBTupd,2:GoldenBTupd,3:NoUpd]: 0
display mode [0:minimum 1:maximum]: 0

BOOT PARAMETERS HAVE BEEN SAVED.

DO YOU WANT TO REBOOT: (Y/N) ? **n ← Do NOT reboot at this point**

host/configure# system licenses convertToRouter
Warning: Prior to converting the system to the Advance Gateway functionality.
Warning: Do the following steps
Warning: Download the Secure Router Image SR2330.Z to the boot device, either /cf0 or /cf1
Warning: Set the boot device and boot file name under the boot_params command to SR2330.Z
Warning: If you proceed, system reboots upon successful conversion
Continue with conversion ? (y/n) : y
Enter License key: xxxxxx ← **Enter your licence key**
Completed...
Conversion Completed...
system reboots in 5 seconds
Warning: If Boot failed, you need reprogram boot menu under boot process

<Mini-Twister Micro POST>
BTS: NORMAL
DDR2: READ MEM 1GB
I2C: PASS
<Mini-Twister Micro POST Completed>

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```
<Mini-Twister Micro POST>
BTS: GOLDEN
DDR2: READ MEM   1GB
I2C: PASS
** Boot stage: M
<Mini-Twister Micro POST Completed>



                VxWorks System Boot

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PROCESSOR     : MPC8347 TBG
SYSTEM MEMORY : 1G
VxWorks       : VxWorks5.5.1
BSP version   : 1.1/0
Boot version  : 0.0.0.42 (GOLDEN Boot)
Creation date : May 26 2010, 11:34:27
NORMAL Bt ver : 0.0.0.42
GOLDEN Bt ver : 0.0.0.42
Baseline ver  : 0.0.0.42 (Internal version for checking)
System name   : SR 2330



Press any key to stop auto-boot...
Compact Flash Device: CF0, Filename: /cf0/SR2330.Z
MODEL: SR -- allow SR image
MODEL: SR -- allow SR image
[SYSTEM] Runtime image loading done
[SYSTEM] Bootrom image loading done
[SYSTEM] Runtime image uncompressing
[SYSTEM] Preparing to transfer control (loader)...


Starting runtime image...



Chassis Model: SR2330
Chassis Operational Status: BOOT

Chassis Serial number: LBNNTMJX9600GP
Chassis Rev: 11

Slot/SubSlot    Card-Type       Status        Serial#
----------------------------------------------------------
  0           MPU_A          NORMAL       LBNNTMJX960080
 INT          SCIM_A          NORMAL       LBNNTMJX97001H
 INT          PVIM_A          NORMAL       LBNNTMJX98001P
 0/7          SFP           Present      ---
 0/8          SFP           Present      ---
```

```
Safenet VPN option installed.
PVDM Link set at 100M/FD

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AVAYA (Secure Router SR2330)
Version: 10.2.2.0
Built: Jun 18 2010, 18:44:48 PST

login: admin
password:

admin logged in on Thu Jun 24 18:17:50 2010 from CONSOLE
In system.cfg, Total commands executed: 44, Total errors: 0

host# show version
 Runtime: 10.2.2.0
 Created: Jun 18 2010, 18:44:48
 Type   : SR Image ← current Active Product – Secure Router
   Boot: 0.0.0.42 (NORMAL Boot)
 NorBoot: 0.0.0.40
 GolBoot: 0.0.0.42


Slot/SubSlot  Card-Type  Status   CPLD-Exp CPLD-Main
------------------------------------------------------
  0/-       MPU_A      NORMAL   ---      0x16
  1/-       ADSL_ANX_A NORMAL   ---      0x3

host# show system licenses
Licensed for router
Licensed PVIM channels = 8
Licensed SSM user capacity = 25
HOST#
```

The conversion to Secure Router is complete

6.2 Converting Secure Router to Advanced Gateway

WARNING

All the Advanced Gateway functionality already exists in the Secure Router Product. Converting a Secure Router to the Advanced Gateway product does not require a license but to restore it back to a Secure Router after converting it to an Advanced Gateway will require a license.

Converting the Secure Router to Advanced Gateway involves the following steps:

- Install the Advance Gateway Software (AG2330.Z) on the 2330
- Set Boot Image to AG2330.Z
- Verify Boot Image with "file version" command
- Configure system license to Advanced Gateway
- System reboots as an Advanced Gateway 2330

Below shows the sequence of converting to the Advanced Gateway product:

```
host# show version
 Runtime: 10.2.2.0
 Created: Jun 18 2010, 18:44:48
 Type   : SR Image ← current Active Product – Secure Router
   Boot: 0.0.0.42 (NORMAL Boot)
 NorBoot: 0.0.0.40
 GolBoot: 0.0.0.42


Slot/SubSlot  Card-Type  Status   CPLD-Exp CPLD-Main
-----------------------------------------------------
  0/-       MPU_A      NORMAL   ---      0x16
  1/-       ADSL_ANX_A NORMAL   ---      0x3


host# configure term
host/configure# boot_params

WARNING : Configuration changeBoot dev  [ftp,cf0,cf1]   : cf0
Boot Ethernet Port  [1-8] : 0
Boot file name            : SR2330.Z AG2330.Z ← Changing Boot Image to Advanced Gateway
Server name               : host
Server IP address         : 192.168.24.1
My IP address             : 192.168.24.10
My subnet mask            : 255.255.0.0
Gateway IP address        :
User name                 : demo
Password                  :
Checksum enable     [0:Disable,1:Enable]: 1
Show header enable  [0:Disable,1:Enable]: 0
Save bootrom image  [0:AutoUpdate,1:NormalBTupd,2:GoldenBTupd,3:NoUpd]: 0
display mode  [0:minimum 1:maximum]: 1 0


BOOT PARAMETERS HAVE BEEN SAVED.
```

DO YOU WANT TO REBOOT: (Y/N) ? **n ← Do NOT reboot at this point**

HOST/configure# **system licenses convertToGateway**
Warning: Prior to converting the system to the Advance Gateway functionality.
Warning: Do the following steps
Warning: Download the Advance Gateway Image AG2330.Z to the boot device, either /cf0 or /cf1
Warning: Set the boot device and boot file name under the boot_params command to AG2330.Z
Warning: If you proceed, system reboots upon successful conversion
Continue with conversion ? (y/n) : **y**
Completed...
Conversion Completed...
system reboots in 5 seconds
Warning: If Boot failed, you need reprogram boot menu under boot process

<Mini-Twister Micro POST>
BTS: NORMAL
DDR2: READ MEM 1GB
I2C: PASS
<Mini-Twister Micro POST Completed>

<Mini-Twister Micro POST>
BTS: GOLDEN
DDR2: READ MEM 1GB
I2C: PASS
** Boot stage: Three
<Mini-Twister Micro POST Completed>

VxWorks System Boot

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PROCESSOR : MPC8347 TBG
SYSTEM MEMORY : 1G
VxWorks : VxWorks5.5.1
BSP version : 1.1/0
Boot version : 0.0.0.42 (GOLDEN Boot)
Creation date : May 26 2010, 11:34:27
NORMAL Bt ver : 0.0.0.40
GOLDEN Bt ver : 0.0.0.42
Baseline ver : 0.0.0.42 (Internal version for checking)
System name : AG 2330

Press any key to stop auto-boot...
Compact Flash Device: CF0, Filename: /cf0/AG2330.Z
MODEL: AG -- allow AG image
MODEL: AG -- allow AG image
[SYSTEM] Runtime image loading done
[SYSTEM] Bootrom image loading done

```
[SYSTEM] Runtime image uncompressing
[SYSTEM] Preparing to transfer control (loader)...


Starting runtime image...


Chassis Model: AG2330
Chassis Operational Status: BOOT

Chassis Serial number: LBNNTMJX9600GP
Chassis Rev: 11

Slot/SubSlot    Card-Type       Status       Serial#
-----------------------------------------------------------
  0          MPU_A          NORMAL       LBNNTMJX960080
 INT          SCIM_A         NORMAL       LBNNTMJX97001H
 INT          PVIM_A         NORMAL       LBNNTMJX98001P
 0/7          SFP            Present      ---
 0/8          SFP            Present      ---

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AVAYA (Advanced Gateway AG2330)
Version: 10.2.2.0
Built: Jun 18 2010, 18:44:48 PST


login: 06/23/2010-21:26:42  ALARMS emerg: Power Supply unit 0 is ABSENT

In system.cfg, Total commands executed: 44, Total errors: 0
admin
password:

admin logged in on Wed Jun 23 21:27:32 2010 from CONSOLE
host# show system licenses
Licensed for advance gateway
Licensed PVIM channels = 8
Licensed SSM user capacity = 25

host## show version
 Runtime: 10.2.2.0
 Created: Jun 18 2010, 18:44:48
 Type   : AG Image ← current Active Product – Advanced Gateway
   Boot: 0.0.0.42 (NORMAL Boot)
 NorBoot: 0.0.0.40
 GolBoot: 0.0.0.42


Slot/SubSlot  Card-Type  Status   CPLD-Exp CPLD-Main
-----------------------------------------------------
  0/-       MPU_A      NORMAL   ---      0x16
host#
```

The conversion to Advanced Gateway is complete.

7. Problems Resolved in the 10.2.2 Release

Bug Reference	Subsystem	Description
Q02130194-01	VOIP	The timeout interdigit parameter for T1 CAS does not work
Q02136336-01	VOIP	The URL comparison rule failed due to case sensitive comparison of the URL parameter
Q02139389-01	VOIP	VOIP Gateway adds an extra space at the end of contact header
Q02147248-01	VOIP	Fax call fails when the call is looped through the 2330
Q0215115	VOIP	Memory Leak in SIP to Trunk Calls

8. Outstanding Issues

Refer to the previous Release Notes.

9. Known Limitations

Refer to the previous Release Notes

10. Documentation Corrections

N/A

11. Notes

The Avanced Gateway and Secure Router for the 2330 now supports a license for 150 ssm users. The previous release only supported a license upgrade to 100 ssm users from the default of 25 ssm users. The show system licenses command displays the current maximum number of ssm users.

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