

Secure Router 4134

Software Release 10.1.2 Readme Notes

1. Release Summary

Release Date: 19-Dec-2008

Purpose: Software maintenance release to address customer found software issues.

2. Notes for Upgrade

Please see the technical documentation for the Secure Router 4134 version 10.1.1 available at: http://www.nortel.com/support for details on how to upgrade your Secure Router unit.

File Names for This Release

Description	File Size	Version	File Name
Secure Router 4134 Application Image	19,417,391	10.1.2	SR4134.Z

3. Version of Previous Release

Software Version 10.1.1

4. Compatibility

N/A

5. New Features in the 10.1.2 Release

5. 1 TACACS+ Support for Cisco Privilege Levels

The ability of support for Cisco Privilege levels simplifies the setup of AAA authorization of commands when using TACACS+ Server. Cisco defined 16 possible privilege levels in which 3 are set up by default. This release supports all the default levels that Cisco supports which are level zero, one and fifteen. For all other TACACS+ Privilege levels the user will have the same user level as the default user. The TACACS+ privilege level maps to a corresponding user levels on the SR 4134 which each user can see by issuing the CLI command **show whoami**. The corresponding mapping between the TACACS+ Privilege levels and SR 4134 user levels are as follows:

TACACS+ Privilege Level	SR 4134 User Level
15	1 (super user)
1	4 (default)
0	3

The following table shows the CLI commands each user level supports:

User	Privilege Name	Definition
Level		
1 (highest)	PRIVILEGE_ADMIN	Admin Level
		Can access any command and configure any feature in the router, including user configuration and administration
2	PRIVILEGE_CONFIGURE	Configure Level
		Can access any command and configure any feature in the
		router, except user configuration and administration
3	PRIVILEGE_TEST	Test Level
		Every command that level 4 can execute plus clear arp,
		show conf, show run, show start, show user, show file.
4 (default)	PRIVILEGE_NORMAL	Normal Level
		Can only enter ping, trace, mtrace telnet, and show
		commands except for: (show conf, show run, show start,
		show user, show file, show ftp)

5.1.1 Setting up TACACS+ Server for Privilege Levels

Simple setup for the TACACS+ server is to set up a separate group for each privilege level on your TACACS+ server and then assign each user to the appropriate group. The following figure shows a portion of the tac plus.cfg file used by a Freeware version of TACACS+ server on Linux.

```
group = configure {
service = exec {
priv-lvl = 15
}
group = test {
service = exec {
priv-lvl = 0
}
}
group = group1 {
service = exec {
priv-lvl = 1
}
user = admin {
         login = file /etc/passwd
          member = configure
}
user = tester {
         login = file /etc/passwd
          member = test
user = user1 {
         login = file /etc/passwd
          member = group1
}
```

On the SR 4134 under the AAA configuration section you need to specify that the AAA authentication and authorization will use TACACS. The following commands need to be specified under the AAA section with the appropriate protocols and other services.

aaa

aaa authentication login default tacacs aaa authentication protocols default ascii aaa authorization commands default tacacs

5.2 PSTN Connectivity via T1/E1 BRI

PSTN connectivity via ISDN BRI S/T interface has been certified and is available for all countries and regions.

5.3 Ability to set ISDN Plan and Type

A new CLI command *map* was added under the bundle configuration to set the ISDN plan and type.

COMMAND:

configure interface bundle isdn map

Synopsis: isdn map { addr <string> plan <numbering-plan> type <number-type> }

no isdn map { addr <string> plan <numbering-plan> type <number-type> }

Description:

To set ISDN type and plan used on a bundle for outgoing traffic by the router.

Parameter	Value	Definition	Default Value
addr	String	Either the calling number or the called	N/A
		number. It can be a regular expression also	
		for pattern matching. If the called number	
		matches the argument then the specified	
		ISDN type and plan are used	
plan	unknown		Called Party
	isdn	ISDN/telephony numbering - E.164/E.163	Data – isdn
	tel	telephony numbering - E.163	Voice - unknown
	data	data numbering - X.121	
	telex	telex numbering - Recommendation F.69	Calling Party
	national	national standard numbering	Data – unknown
	private	private numbering	Voice - unknown
type	unknown		Called Party
	international	international number	Data – national
	national	national number	Voice - unknown
	network	network specific number	
	subscriber	subscriber number	Calling Party
	overlap	overlap sending	Data – unknown
	abbreviated	abbreviated number	Voice - unknown

Example:

The following example sets the numbering plan and number type as unknown for all the calls.

TORNADO/configure>interface bundle wan

TORNADO/configure/interface/bundle/wan > isdn map .% unknown unknown

5.3.1 Supported Number Plan and Type for each Switch Type

Switch-Type: Euro

11 11 11 11 11 11 11 11 11 11 11 11 11
Number Plan
unknown - unknown
isdn - ISDN/telephony numbering -
E.164/E.163
data - data numbering - X.121
telex - telex numbering - Recommendation F.69
national - national standard numbering
private - private numbering
extension - reserved for extension

Number Type	
unknown	
international	
national	
network	
subscriber	
extension	

Switch-Type: DMS100

Number Plan
unknown - unknown
isdn - ISDN/telephony numbering -
E.164/E.163
private - private numbering

Number Type	
unknown	
international	
national	
subscriber	

Switch-Type: QSIG

Number Plan	
unknown - unknown	
isdn - ISDN/telephony numbering -	
E.164/E.163	
private - private numbering	

Number Type	
unknown	
international	
national	
subscriber	

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Switch-Type: CCITT

Number Plan
unknown - unknown
isdn - ISDN/telephony numbering - E.164/E.163
tel - telephony numbering - E.163
data - data numbering - X.121
telex - telex numbering - Recommendation F.69
national - national standard numbering
private - private numbering
extension - reserved for extension

Number Type	
unknown	
international	
national	
network	
subscriber	
abbreviated	_
extension	

Switch-Type: 5ESS

Number Plan			
unknown - unknown			
isdn - ISDN/telephony numbering -			
E.164/E.163			
national - national standard numbering			
private - private numbering			

Number Type
unknown
international
national
subscriber

6. Problems Resolved in the 10.1.2 Release

Bug Reference	Subsystem	Description
Q01911622	ISDN	Able to set number plan for ISDN Calls though CLI
Q01919818	Platform	Route does not work properly when the SR 4134 is between the Source and
		Destination IP Address of the trace route
Q01920730	SNMP	Community string not stored properly when done by a TACACS user
Q01954042	TACACS	TACACS privilege level mapping issues

7. Outstanding Issues

Refer to the Secure Router 4134 version 10.1.1 Release notes

8. Known Limitations

Refer to the Secure Router 4134 version 10.0 and 10.1.1 Release notes VRRP only supports tracking Bundle interfaces

Packet Capture (PCAP) debug feature does not support modular Ethernet interfaces. To capture packets on the modular Ethernet ports, use port mirroring and an external device connected to the destination port.

9. Documentation Corrections

None

10. Notes

None

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