Release Notes

Access System 2000

Red Zone Encryption Management System (REMS)

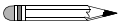
Release Notes

IMPORTANT

*Read this **Release Notes** document before you read the REMS user manual.*

This ***Release Notes*** provides corrected information for the ***Red Zone Encryption Management System User Manual***, Chapter 6, Configuring and starting REMS, in the section, "Configuring REMS using the thumbwheel switches. Use the following information instead of section mentioned above.

TIP



Verilink suggests you manually cross out that section in the A(1) rev of the REMS user manual, ***up to but not including*** the section, "Interpreting the LED indicators, page 6-5.")

Configuring REMS using the thumbwheel switch

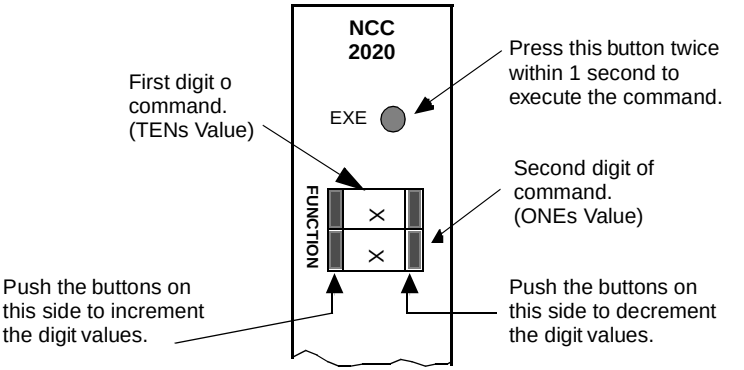
The operator uses the EXE (execute) and FUNCTION thumbwheel switches on the NCC 2020 modules to configure REMS. There are thumbwheel switches in both the FBR and the BRC. You must configure the FBR and the BRC separately, as if they were two separate AS2000 nodes.

Figur e1, NCC Thumbwheel Switches shows the top section of the master NCC 2020 front panel.

CAUTION

Do not attempt to use AM2000 or ASCIITerminal Interface (ATI) to configure REMS. (There are some exceptions, which are noted.) Use only the thumbwheel interface. If you accidentally change configuration using the AM2000 or theATI, reconfigure the system using the thumbwhee interface. Do not use other thumbwheel commands that you may find in AS2000 manuals. Unspecified results may ensue.

Figure 1 NCC Thumbwheel Switche



Using the thumbwheel switches (overview)

The system must be powered up before you use the thumbwheel switch interface. The thumbwheel switch interface is enabled by default. You can log into Access Manager 2000 (AM2000) to verify that the thumbwheel switches are enabled.

Before entering thumbwheel commands, you must address the appropriate FBR or BRC NCC 2020 by entering its slot address number into the thumbwheel switches. Slot addresses numbers are two-digit numbers that range from **01** to **30**. The NCC is typically in slot 01.

Configuring the system using the thumbwheel switches is a two-step process. The operator enters a command by setting the FUNCTION thumbwheel switches to the corresponding command number (address). The operator then presses the EXE button twice (in one second).

Each command consists of two digits. The switch nearest to the EXE push-button sets the first digit of each command and has a TENs arithmetic value. The other switch sets the second digit of the command and has a ONEs value.

Accessing the NCC 2020 using the thumbwheel switches

Plug-in module slot addresses range from **01** to **30**. Slot numbers are assigned to dual-line and multi-lined shelves from left to right, continuing from one shelf to another. See Figure 2-2 in the ***Red Zone Encryption Management System User Manual***. The figure is titled, "Front Panel View Concept Drawing, Dual-line and Multiline Shelf Rack Configurations." (For more information, see the AS2000 manuals referred to in the preface of the REMS user manual.)

Every module in an Access System 2000 node has a unique two-digit location number, or address. In a node with two multiline and two dual-line shelves, the module addresses for thumbwheel switch access are 01 to 13 in the first multiline shelf and 14 to 26 in the second multiline shelf. The module addresses in the dual-line shelves are 27 and 28 in the first shelf, and 29 and 30 in the second shelf.

If the node has only dual-line shelves, the module addresses are 01 and 02 in the first shelf, and 03 and 04 in the second shelf.

NOTE

You must configure the FBR and the BRC separately, as if they were two separate AS2000 nodes.

Accessing modules

To access the desired NCC, enter its address in the thumbwheel switches and press the **EXE** button twice within one second. See Figure1, NCC Thumbwheel Switches. The STAT LED of the module flashes green, indicating that it is accessed and waiting for your next command.

Once an NCC has been accessed, you have 60 seconds to enter another thumbwheel switch command. If no command is entered within this time period, the accessed module returns to the idle state and its STAT LED goes out.

Clearing an incorrect address entry

If you accidentally access the wrong module, enter command **00** and rapidly press the **EXE** button twice. This releases the currently accessed module.

If you enter command **00** while a QRSS test signal is applied to an NCC, or while a loopback is in progress, nothing happens. The loopbacks must be deactivated first.

Procedure for configuring the FBR

Use the following procedure for configuring the FBR NCC 2020. (For list of commands, see the subsection, ***FBR Thumbwheel Configuration Commands***, below.)

1. Access the FBR by entering its location address into its the thumbwheel switches (located on the front panel of the FBR NCC 2020).

   The STATUS light on the front panel of the NCC begins flashing **Green**. (You have 60 seconds to perform the next step.)

2. Using the FBR thumbwheels (located on the front panel of the FBR NCC 2020), set the FBR to 40. This is the "canned" (preconfigured) FBR option.

   The NCC STATUS light stops flashing.

3. As appropriate, configure one of the FBRs in the circuit to be **Master** (64) and the other end, **Remote** (65).

4. As, appropriate, configure the access port to D4 or ESF framing. (You can also use the ASCII Terminal Interface (ATI) to set these parameters.)

5. Select the line code.(You can also use the ATI to set these parameters.)

IMPORTANT

If you reset the thumbwheel switches to 40 at any time after performing the above procedure, all settings are reset to the defaults. You must then reenter the commands that make the configuration unique.

FBR Thumbwheel Configuration Commands

40	Canned FBR Option 1 (Remote REMS is the default.)
64	FBR is Master
65	FBR is Remote
68	Disable Re-sync (Default)
69	Re-sync= 2 seconds
70	Re-sync= 4 seconds
71	Re-sync= 6 seconds
72	Re-sync= 8 seconds
73	Re-sync= 10 seconds
80	D4
81	ESF
82	AMI
83	B8ZS

Procedure for configuring the BRC

Using the BRC thumbwheels (located on the front panel of the BRC NCC 2020), select the BRC timing mode for each BRC in the circuit. Refer to the subsection, BRC Timing Options, below.

1. Access the BRC by entering its location address into its the thumbwheel switches (located on the front panel of the BRC NCC 2020).

   The STATUS light on the front panel of the NCC begins flashing **Green**. (You have 60 seconds to perform the next step.)

2. Using the FBR thumbwheels (located on the front panel of the FBR NCC 2020), set the FBR to 40. This is the “canned” (preconfigured) FBR option.

   The NCC STATUS light stops flashing.

3. Select the BRC timing mode for each BRC in the circuit. Refer to the subsection, BRC Timing Options, below.

BRC Timing Options

Select one of the settings 40 through 43, which are canned programs. Then select from 50 through 63 as appropriate.

40	(Canned program) Internal timing, generate PRMs (Performance Report Messages)
41	(Canned program) Network loop timing, generate PRMs
42	(Canned program) Internal timing, no PRMs
43	(Canned program) Network loop timing, no PRMs
50	Internal timing
51	Network loop timing
52	Equipment timing
53	External timing RS442
54	External timing TTL
62	Disable transmit of BRC message
63	Enable transmit of BRC message

Correct the error in Troubleshooting chapte

On page 8-5 of the rev A(1), ***Red Zone Encryption Management System User Manual***, delete step **5, b** of the eight-step procedure at the top of the page. Step 5, b does not apply.

Correct spelling of T-Berd and FireBerd

On page 8-4, in the first paragraph under the Section, "Troubleshooting using a testset and loopback," the correct spelling of the example testsets should be: "...FIREBERD, T-BERD, or Verilink's TS2000."