
EST3 VERSION 3.4 SOFTWARE RELEASE NOTES

P/N: 270729 • REV: 3.4 • June 27, 2003

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1 INTRODUCTION

These release notes contain a summary of the changes made for Version 3.4 of EST3. The notes also include information that was not available for inclusion in the documentation or Help system at publication time.

These release notes include changes since V3.2 of the product.

Note: Please read these notes in their entirety before attempting to install your new version of the 3-SDU. The topic "MICROCODE VERSION 3.4 PANEL UPGRADE INSTRUCTIONS" provides detailed instructions on how to upgrade systems using the network download feature.

2 OPERATING SYSTEM COMPATIBILITY

2.1 3-SDU compatibility

The 3-SDU V3.4 is compatible with Windows 98*, 2000, Me, XP, and NT* operating systems.

* See notes in section 8.4

3 NEW SOFTWARE VERSIONS

Table 1: New EST3 software and microcode versions

Description	Version
3-CPU(1)(3) microcode	3.4
3-SDU/K new installation kit	3.4
3-SDU update kit	3.4
3-SAC microcode	3.4
3-SSDC/SDDC microcode	3.31
3-SSDC1/SDDC1 microcode	3.4
3-EASC/EADC microcode	3.4
3-FTCU firmware	3.4
3-ZA20/40/90 firmware	3.4
3-ASU microcode	3.4
KPDISP microcode	1.4
CRC microcode	1.4
3-VDUT language database	1.00.06
3-MODCOM microcode	3.12

4 OVERVIEW: WHAT'S NEW IN VERSION 3.4

- Project Compare Utility (PCU): Generates a report that compares the 3-SDU project currently open with a previous version of the same 3-SDU project. The PCU report shows all differences between the two project versions.
- Project Configuration: Restore events on Disable. This causes off-normal points to restore their states when the point is disabled.
- Printer Port Configuration: Added event filters for commands, acknowledgements, partition events, and guard station events.
- AND group programming: When Not Active (NA) is selected for an AND input device the device event is counted when it is normal, not when it is active which is the standard configuration.
- 3-CPU(1)(3) COM1 and COM2 serial ports assert the RTS signal, allowing the FW-XPL short haul modem to be wired directly to the serial port without the need for an IOP-3A
- 3-AADC/3-AADC1 supports the System Sensor low profile series A devices
- The key switch on a two-stage pull station, configured as a STAGE TWO device type generates an alarm event.
- Support for the Australian market
- Support for the EA series line of addressable analog sensors that are available in the European market

- Support for new LRM hardware: 3-CPU3, 3-SSDC1, 3-SDDC1, 3-AADC1. This new generation of hardware provides the room to grow the module functionality into the future. UL release is pending.
- Ability to place a Signature sensor in alarm, prealarm, or trouble from the 3-LCD Menu, SIGA-DTS, programmable switches, Fireworks, or from rules in general. Operation also works for Signature modules and devices of different types, including security devices. This functionality is available only on the new LRM hardware 3-SSDC1 and 3-SDDC1 running V3.4 microcode.
- Addition of four pseudo points for general purpose use (System Function 1-4). The system function pseudo points can be defined to activate from a key function on the 3-LCD, a switch, or Fireworks. Their output is defined by programming a rule response to their activation.
- Ability to configure Signature duct detectors as nonlatching supervisory devices. This functionality is available only on the new LRM hardware 3-SSDC1 and 3-SDDC1 running V3.4 microcode.
- Additional languages supported in the European market: Spanish, German, Finnish, Portuguese, Turkish.
- New DisabledActive and DisabledTrouble input events for rules. This allows the programming of responses that are to be executed when a device activates while it is disabled.
- 3-SAC microcode maintenance change
- 3-FTCU firmware maintenance change
- 3-ASU microcode maintenance change
- 3-ZA20/40/90 firmware maintenance change
- KPDISP microcode maintenance change
- CRC microcode maintenance change
- The 3-SDU Project Export functions use a different naming convention for exported files
- 3-MODCOM(P) microcode maintenance change

5 SOFTWARE REVISIONS AND COMPATIBILITY

5.1 LRM compatible versions

To stay up-to-date, you should upgrade to 3-SDU version 3.4. There is no need to upgrade 3-CPU(1)(3) application code or bootloader code unless you want to take advantage of the new features offered in version 3.4.

Table 2: EST3 3-SDU version 3.4 software compatibility

LRM	Oldest* version	Shipping version	Medium	Part number
3-ASU	1.4	3.4	CD	3-SDU
3-SSDC	1.52	3.31	CD	3-SDU
3-SDDC	2.1	3.31	CD	3-SDU
3-SSDC1	1.52	3.4	CD	3-SDU
3-SDDC1	2.1	3.4	CD	3-SDU
3-AADC	1.4	3.1	CD	3-SDU
3-AADC1	1.4	3.1	CD	3-SDU
3-EASC	3.4	3.4	CD	3-SDU
3-EADC	3.4	3.4	CD	3-SDU
3-LDSM	1.0	3.0	Chip	190153
3-FTCU	1.0	1.2	Chip	190156
3-FTCU	1.4	3.4	Chip	190254
3-MODCOM(P)	3.0	3.2	CD	3-SDU
3-SAC	3.1	3.4	CD	3-SDU
3-ZA15	1.1**	N/A	Chip	190151
	1.3	N/A	PAL Chip	190191
3-ZA20A	1.4	3.4	Chip	190252
	1.4	1.4	PAL Chip	190191
3-ZA20B	1.4	3.4	Chip	190252
	1.4	1.4	PAL Chip	190191
3-ZA30	1.1**	N/A	Chip	190151
	1.3	N/A	PAL Chip	190191
3-ZA40A	1.4	3.4	Chip	190252
	1.4	1.4	PAL Chip	190191
3-ZA40B	1.4	3.4	Chip	190252
	1.4	1.4	PAL Chip	190191
3-ZA90	1.4	3.4	Chip	190252
	1.4	1.4	PAL Chip	190191
3-PPS	1.0	3.0	Chip	190157
3-BPS	1.0	3.0	Chip	190157
3-BBC	3.0	3.0	Chip	190157
3-IDC8/4	1.1	3.0	Chip	190159
3-OPS	1.0	3.0	Chip	190158
3-CPU(1)(3)	1.33	3.4	CD	3-SDU
CRC	1.3	1.4	CD	3-SDU
KPDISP	1.0	1.4	CD	3-SDU

* Oldest version still compatible with 3-SDU

** Version 1.12 required for standalone mode disabled feature. To obtain V1.12, request a deviation version for part number 190151 through Technical support.

Note 1: 3-CPU(1)(3) V3.4 microcode cannot reside on the same network as earlier 3-CPU(1)(3) microcode. To use V3.4, all panels must be upgraded to V3.4. Networks with 3-CPU microcode version 1.4 or later can be upgraded with the 3-SDU by using the network download function. (See "MICROCODE VERSION 3.4 PANEL UPGRADE INSTRUCTIONS" for instructions)

Note 2: The 3-CPU3 is 100% backward-compatible with, and can be installed on the same network as, the 3-CPU1 and 3-CPU. The 3-CPU3 and 3-CPU1 require at least version 1.41 microcode.

Note 3: 3-FTCU firmware comes in two non-interchangeable forms. Part 190254 cannot be used to update Part 190156, and vice versa.

5.2 3-SDU database compatibility

3-SDU V3.4 can be used to generate databases for the following LRMs:

Table 3: LRM microcode supported by 3-SDU V3.4

LRM	3-SDU supported microcode versions
3-CPU	V1.33, V1.41, V1.52, V2.0, V3.0, V3.1, V3.2, V3.4
3-SSDC/SDDC	V1.52, V2.1, V3.31
3-SSDC1/SDDC1	V1.52, V2.1, V3.31, V3.4
3-ASU	V1.4, V3.0, V3.4
3-AADC	V1.4, V3.0, V3.1
3-AADC1	V1.4, V3.0, V3.1
3-MODCOM(P)	V3.0, V3.1, V3.11, V3.12
3-SAC	V3.1, V3.4
CRC	V1.3, V1.4
KPDISP	V1.0, V1.1, V1.2, V1.3, V1.4
3-EADC/EADC	V3.4

5.3 Latest compatible versions

The following table identifies the most recent version of LRM microcode that is compatible with each 3-CPU microcode version. We recommend that you use the latest compatible version of LRM microcode.

Table 4: LRM and 3-CPU microcode compatibility

LRM	3-CPU microcode versions							
	V1.33	V1.41	V1.52	V2.0	V3.0	V3.1	V3.2	V3.4
3-SSDC	V1.52	V1.52	V1.52	V2.1	V3.31	V3.31	V3.31	V3.31
3-SDDC	V1.52	V1.52	V1.52	V2.1	V3.31	V3.31	V3.31	V3.31
3-SSDC1	V1.52	V1.52	V1.52	V2.1	V3.31	V3.31	V3.31	V3.4
3-SDDC1	V1.52	V1.52	V1.52	V2.1	V3.31	V3.31	V3.31	V3.4
3-ASU	V1.4	V1.4	V1.4	V3.4	V3.4	V3.4	V3.4	V3.4
3-AADC	V1.4	V1.4	V1.4	V2.1	V2.1	V3.1	V3.1	V3.1
3-AADC1	V1.4	V1.4	V1.4	V2.1	V2.1	V3.1	V3.1	V3.1
3-MODCOM(P)	---	---	---	---	V3.0	V3.12	V3.12	V3.12
3-SAC	---	---	---	---	---	V3.4	V3.4	V3.4
CRC	---	---	---	---	---	V1.4	V1.4	V1.4
KPDISP	---	---	---	---	---	V1.4	V1.4	V1.4
3-EASC	---	---	---	---	---	---	---	V3.4
3-EADC	---	---	---	---	---	---	---	V3.4

6 NEW IN 3-SDU VERSION 3.4

6.1 General improvements

- Corrected problem with group deletions for the Signature Relay and Sounder Base Group configuration

6.2 Communications

- Corrected problem where network download of databases to 3-ASUs with memory expansion could fail

6.3 Cabinet configuration

- Added port filtering selections for commands, partition events, guard station events, and acknowledgments
- Added support for new LRM types: 3-SSDC1, 3-SDDC1, 3-AADC1, 3-EASC, 3-EADC, 3-CPU3

6.4 Project configuration

- Restore Event on Disable: This project configuration selection restores active input events and output controls when a device is disabled.
- Support for the Australian marketplace
- Added support for European languages: Spanish, German, Finnish, Portuguese, Turkish

6.5 3-SSDC, 3-SDDC configuration

- The SIGA-DTS can be set as a supervisory device. This allows the SIGA-DTS to be programmed as a supervisory duct detector test station.

6.6 3-SSDC1, 3-SDDC1 configuration

- Support for nonlatching supervisory duct detectors
- SIGA-DTS can be set as a nonlatching monitor device. This allows a rule to be written to execute the AlarmTest command (see below) on the duct detector.

6.7 3-AADC, 3-AADC1 configuration

Note: Module M501MA now supports alarm types.

- The 5251RPA support update corrects a problem where the heat detector would not restore while in alarm
- New models have been added to replace obsolete models. The obsolete models are still selectable for backward compatibility.

<u>New Modules</u>	<u>Obsolete Module</u>
M500RA	M500CHA - Relay portion
M500RF	M500CFS - Relay portion
M500SA	M500CHA - Control portion
M500SF	M500CFS - Control portion

<u>New Sensor</u>	<u>Obsolete Sensor</u>
5251PA	5551AB
5251RPA	5551RA
2251A	2551A
DH200PA	no equivalent
DH200PF	no equivalent

6.8 Object configuration

- Added support for the Not Active (NA) selection for AND Group members
- Improved the user entry of device addresses when specifying a device address range
- When NA is selected, the device increments the activation count when it is in a normal condition. You can use NA in combination with any active state such as Q1.

When both Q1 and NA are selected for a device, the activation count decrements when the device goes into alarm.

6.9 3-EASC, 3-EADC configuration (European marketplace)

- Configuration support for the EA series loop controllers, sensors and modules
- Devices supported:
 - EA10E-2 ion sensor
 - EA20E-3 heat sensor
 - EA30E-2 photo sensor
 - EA32E-2 photo/heat sensor
 - EA740-2 single class B input module
 - EA745-2 miniature interface module
 - EA750-2 relay
 - EA752-2 dual line output
 - EA785-2 call point
 - EA787-2 weatherproof call point
 - EA755R, EA755HA, EA755HB, EA755W sounders
 - EA760-2 line isolator
 - ASBE-2 standard sensor base
- Features:
 - single and dual loop models
 - 127 devices per loop
 - 10 loops per panel
 - Class A/Class B loop wiring
 - primary/alternate sensitivity
 - primary/alternate alarm verification timing
 - primary/alternate prealarm sensitivity
 - primary/alternate 58°C/75°C/rate-of-rise heat settings
 - 2 state evacuation/alert operation
 - polling LED blink on/off

6.10 Rules programming

- Corrected ConditionalAway and ConditionalStay command encoding when used within command lists
- DisabledActive: New input event that provides a response to be executed if the device activates while disabled.
- DisabledTrouble: New input event that provides a response to be executed if the device develops a fault while disabled.
- SystemMonitor: New input event that is generated when one of the system function pseudo points activate.
- AlarmTest: New command that can be used to place a Signature device into alarm.
- Active1Test: New command that can be used to activate a non-alarm Signature device.
- PrealarmTest: New command that can be used to place a Signature sensor into prealarm.

- Active2Test: New command that can be used to activate a Signature security device into SecurityTamper.
- TroubleTest: New command: that can be used to place a Signature device into fault condition.
- Calibrate: A new command that can be used to reset the environmental compensation and dirtiness level on an EA series device after it has been cleaned or replaced.
- SystemFunction: A new command that can be used to control system function pseudo points.
- SignalAlert: A new command that can be used to activate the EA series 2-stage sounders to sound an alert signal.
- SignalEvacuate: A new command that can be used to activate the EA series 2-stage sounders to sound an evacuate signal.
- SignalOff: A new command that can be used to turn off the alert and evacuate signal on EA series two-stage sounders.

6.11 Project import

- The 3-SDU Project Import function remembers the last folder from which a project was imported. The next time the user chooses to import a project, the Project Import dialog box uses that folder.

6.12 Project export

- The 3-SDU Project Export function remembers the last folder to which a project was exported. The next time the user chooses to export a project, the Project Export dialog box uses that folder.
- The 3-SDU Project Export function uses a different naming convention for exported files. The previous naming convention used the name of the project with an SDU extension. The new naming convention uses the project name, project version and project revision with an SDU extension.

Example:

```
Project Name : TESTPROJ
Project Version : 01.00.00
Project Revision : 4
Export Filename : TESTPROJ_01_00_00_4.SDU
```

6.13 Project Compare Utility

- The 3-SDU Project Compare Utility (PCU) generates a report that compares the 3-SDU project currently open with a previous version of the same 3-SDU project. The PCU report shows all differences between the two project versions.
- The PCU cannot compare rule responses to 3-SDU versions of 1.4 or older.
- Refer to 3-SDU help for details on the report operations and format.

7 V3.4 MICROCODE UPDATES

7.1 3-CPU(1)(3) version 3.4 microcode

- Project configuration: Restore events on Disable. This causes off-normal points to restore their events when the point is disabled.
- Project configuration: Australian marketplace support added.
- Printer port configuration: Added event filters for commands, acknowledgements, partition events and guard station events.
- AND group programming: When Not Active is selected for an AND input device the device is counted when it is NOT active.
- Asserts RTS signal on COM1 and COM2 serial ports allowing direct wiring to FW-XPL without an IOP-3A
- Corrected a problem where the 3-CPU would unnecessarily warn the user when a remote point is being enabled
- Corrected a problem where Acknowledge events would be displayed incorrectly in the History report. Also corrects a problem where Acknowledge events were recorded with an incorrect time stamp in panel history (on proprietary systems).
- Corrected a problem where an exception could occur if the number of characters in the location text and abbreviation exceeded 50 characters
- Corrected a problem where the 3-CPU would announce an incorrect device disabled state if the device and its card were disabled in the same rule
- Corrected state processing in status reports so that activated outputs without a relay confirmation are not displayed with a DIS prefix
- LRM Configuration: Support for 3-SSDC1, 3-SDDC1, 3-AADC1, 3-EASC, 3-EADC, and 3-LCD-AU.
- Added support for EA series loop controllers
- Added support for new Signature test commands
- Added support for DisabledActive and DisabledTrouble responses
- Added support for four system function pseudo points. These points can be activated and restored via 3-LCD switches, annunciator switches, from Fireworks, or via rules in general.

7.2 3-SSDC1/3-SDDC1 V3.4 microcode

- Improved the relay/sounder base activate and restore timing
- This firmware supports all of the functionality provided in the 3-SSDC/3-SDDC firmware and takes advantage of the additional space made available on the 3-SSDC1/3-SDDC1 LRMs to implement additional functionality

- Provides support for AlarmTest, Active1Test, PrealarmTest, Active2Test, and TroubleTest commands
- Provides support for nonlatching supervisory duct detectors
- See section 12 for bootstrap downloading

7.3 3-SAC V3.4 microcode

- 3-SAC microcode maintenance change to correct a problem with the background supervision

7.4 3-FTCU V3.4 firmware

- 3-FTCU microcode maintenance change to correct the operation when connection of fire fighters telephones is controlled through a front panel switch

7.5 3-VDUT language database V1.00.06

- The key switch on a two-stage pull station, configured as a STAGE TWO device type generates an alarm event.

7.6 3-ZA20/40/90 V3.4 firmware

- Microcode change to correct a problem where internal amplifier supervision would falsely raise a failure condition

7.7 3-ASU V3.4 microcode

- Microcode maintenance change that corrected the 3-ASU operations when utilizing Flash PCMCIA extended memory

7.8 KPDISP V1.4 microcode

- Corrected a problem where the KPDISP would incorrectly reply to a 3-SDU request for version information
- Supports memory scrubbing in the field
- Corrected a problem where the KPDISP would restart if presented with a restore event for a point when it had not seen the preceding activation event (can happen during code and database downloads or other cases of communication faults)

7.9 CRC V1.4 microcode

- Corrected a problem where the CRC would not properly evaluate a Holiday for use with an unlock schedule
- Corrected a problem where the CRC would not invoke an access level command list unless a command list had been tied to the event type in the CRC configuration
- Corrected a problem where the CRC could generate a strike fault when the door is unlocked
- Supports memory scrubbing in the field

7.10 3-MODCOM(P) V3.12 microcode

- TAP protocol improvements to resolve connection problems seen with some receivers
- Supports TAP with password

7.11 Installation and upgrade notes

Caution: If you are installing the 3-SDU on a PC connected to a local area network (LAN) using Borland products, call the Technical Support Department for additional installation information.

We recommend that you do NOT manually delete your previous version of the 3-SDU. Rather, let the installation program update that version to the current version.

The 3-SDU is best run on a computer with a resolution of 1024 x 768 (or better) and small fonts. If any other settings are used, some of the 3-SDU screens will be resized.

Only one version of the 3-SDU can be installed on your PC at one time.

8 RUNNING THE 3-SDU

8.1 Overview

Remember to install your security key in your computer's parallel (LPT1) port. Any other devices that share this port such as printers and Zip disks must be plugged into the key.

Save your project periodically as you are working on it. Export your project to a backup diskette on a regular basis to protect your work.

8.2 ECP gateway port selection

Refer to the external equipment manufacturer's documentation for compatible ECP gateway selection.

If an ECP port is configured on the 3-CPU(1)(3) then 38.4 Kbaud is not supported for download via the auxiliary ports to the 3-CPU(1)(3). However 19.2 Kbaud is supported.

If an ECP gateway port is not configured on the 3-CPU then 19.2 Kbaud is not supported for download via the auxiliary ports to the 3-CPU(1)(3). 38.4 Kbaud is supported. The RJ-45 connector always supports 19.2 Kbaud and 38.4 Kbaud for downloading.

8.3 Change in 3-SDU function

After upgrading from V1.5 to V3.4, EST3 recognizes the "M" series plug-in Signature modules. Simply accept the devices; no reprogramming is necessary.

8.4 Resource Profile Manager (RPM) issues

Before using the V3.4 security features with Windows 98 (First Edition), or NT operating systems, you need to download either two or three upgrades as described below. All three upgrades are available free from Microsoft via the internet.

First, you must have MS Internet Explorer 4.01 SP2 or greater. To verify your IE version, open Internet Explorer and select Help > About Internet Explorer. The version number must be 4.72.3612.1713 or greater. If not, you must upgrade to a new version.

Internet Explorer upgrades can be found at:

<http://microsoft.com/windows/ie/downloads/archive/default.asp>

We recommended that you upgrade to Internet Explorer version 5.5 SP1. Save this program to your hard drive at a location of your choice.

The second upgrade is mandatory. This upgrade is for the Microsoft Data Access Components (MDAC) and can be found at:

<http://microsoft.com/data/download.htm>

On this page, locate the entry for MDAC 2.6 SP1 (2.61.7326.6) and click "Read the MDAC 2.6 SP1 release details." Click "Download MDAC 2.6 SP1 (2.61.7326.6)" to download the file. Save the file on your hard drive at a location of your choice.

The third upgrade is for the Microsoft Jet database engine, and is also mandatory. The file can be found at:

<http://microsoft.com/data/download.htm>

On this page, locate the entry for Jet 4.0 Service Pack 3 and click "Read the Jet 4.0 SP 3 release details." Click "Download Jet 4.0 SP3" to download the file. Save the file on your hard drive at a location of your choice.

After you download all the required files, install the IE, MDAC, and Jet upgrades in that order.

9 MICROCODE VERSION 3.4 PANEL UPGRADE INSTRUCTIONS

9.1 CPU(1)(3) version 3.4

The new application and bootloader code must both be downloaded to ALL panels in the system.

Note: Do not mix different versions of 3-CPU(1)(3) microcode on the same network. By carefully following the steps below, an existing system can be upgraded.

9.2 Upgrading V1.33 or lower to V3.4

Project version numbers are embedded in each project file. Because the Save As command creates a new version number that is different than the embedded version, you must use the following procedure to install V3.4. Please follow these steps *in the correct order* to upgrade the hardware and software in your system

To upgrade from V1.33 or lower:

1. Install 3-SDU version 3.4.
2. Choose File > Open and select your project from the Open Project dialog box. Click OK to open the project.
3. Select Ok to upgrade the microcode of your project.
4. Save your project as a new version, using the Save As command on the File menu.
5. Choose Rules > Compile to recompile your project.
6. Choose Tools > DB Conversion > All Databases, to create databases for the Loop Controllers and Cabinets.
7. Choose File > Save to save the recompiled project.
8. Disconnect network wiring at all panels.
9. Choose Tools > Communications and select Single Step for the Download mode.
10. From the LRM Type Display Filter group, select 3-CPU. From the File Display Filter group, select Application Code and Bootloader code. (Do NOT include the 3-SSDC/3-SSDC database, code, or bootstrap).
11. Connect the laptop to a node CPU, and click Download and Start to start the download.

12. From the File Display Filter group, select Database. Click Download and Start to start the download.
13. Connect the laptop directly to the 3-SSDC/3-SDDC and 3-ASU to download application and bootstrap code.
14. Select database, downloaded as required.
15. After all nodes are upgraded, reconnect the network wiring to all panels.
16. Using the Command Menu, restart the system.

9.3 Upgrading V1.4 or higher to V3.4

Project version numbers are embedded in each project file. Because the Save As command creates a new version number that is different than the embedded version, you must use the following procedure to install V3.4. Please follow these steps *in the correct order* to upgrade the hardware and software in your system.

To upgrade from V1.4 or higher:

1. Install 3-SDU version 3.4.
2. Choose File > Open and select your project from the Open Project dialog box. Click OK to open the project.
3. Click OK to upgrade the microcode of your project.
4. Save your project as a new version, using the Save As command on the File menu.
5. Choose Rules > Compile to recompile your project.
6. Choose Tools > DB Conversion > All Databases, to create databases for the Loop Controllers and Cabinets.
7. Choose File > Save to save the recompiled project.
8. Choose Tools > Communications and select Network for the Download mode.
9. From the LRM Type Display Filter group, select 3-CPU. From the File Display Filter group, select *Database*. (Do NOT select the Application Code, Bootloader Code, or any 3-SSDC/3-SDDC options).
10. Connect your laptop to the first CPU on the network (any node for Class A networks) and click Download and Start to network download version 3.4 of the database.
11. From the LRM Type Display Filter group, select 3-CPU. From the File Display Filter group, select *Application Code*. (Do NOT select the Database, Bootloader Code, or any 3-SSDC/3-SDDC options).

12. Click Download and Start to network download version 3.4 of the application code to all nodes.
13. From the LRM Type Display Filter group, select 3-CPU. From the File Display Filter group, select *Bootloader Code*. (Do NOT select the Database, Application Code, or any 3-SSDC/3-SDDC options).
14. Click Download and Start to network download version 3.4 bootloader code to all nodes.

9.4 Upgrading 3-SSDC, 3-SDDC, and 3-AADC loop controllers

Note: You must upgrade the 3-CPU(1)(3)s before upgrading the loop controllers.

Each of the steps listed below must be completed in *separate download sessions*.

The loop controllers can be upgraded using network downloads.

If the bootstrap download fails, or if the steps are performed out of order, you must cycle the power on the panel and restart the upgrade by downloading the bootstrap code again.

To upgrade the loop controllers:

1. Download the 3-SSDC/3-SDDC/3-AADC bootstrap to each LRM. (Download the bootstrap only, do not download the application code or database.)
2. From the 3-LCD menu, issue a restart command for all panels.
3. Download the 3-SSDC/3-SDDC/3-AADC application code.
4. Download the 3-SSDC/3-SDDC/3-AADC loop controller databases.

9.5 Upgrading 3-ASU

When upgrading the 3-ASU it is recommended that you upgrade in the following order:

1. Boot Code
2. Application Code
3. Database

10 SDU HELP

SDU Help requires that you have Internet Explorer 4.0 or later installed. The compiled HTML help file is not compatible with other web browsers. See the topic "Resource Profile Manager (RPM) issues" earlier in these release notes for instructions on determining your IE version and on upgrading to a higher version.

11 LANGUAGE SUPPORT

Language	Markets					
	US	Canada	Europe	Asia	Middle East	Australia
Chinese (Simplified)				X		
Chinese (Traditional)				X		
Dutch			X			
English	X	X	X			X
Finnish			X			
French (Canadian)	X	X				
German			X			
Hebrew	X				X	
Italian	X		X			
Korean				X		
Polish			X			
Portuguese	X		X			
Russian	X		X			
Slovak			X			
Spanish	X		X			
Turkish	X		X			

Notes: KPDISP provides a single layout for use in the markets and languages served by the American, European, Middle East, and Australian layouts

11.1 Bilingual language character sets

When a primary/secondary language is selected, both languages must be supported in the same font table.

EST3 Code Page	Bilingual Language Sets
1250 (Eastern Europe)	English, Polish, Slovak
1251 (Cyrillic)	English, Russian
1252 (Western Europe)	Dutch, English, Finnish, German, Italian, Portuguese, Spanish
1254 (Turkish)	English, Turkish
1255 (Hebrew)	English, Hebrew

11.2 Printer code pages

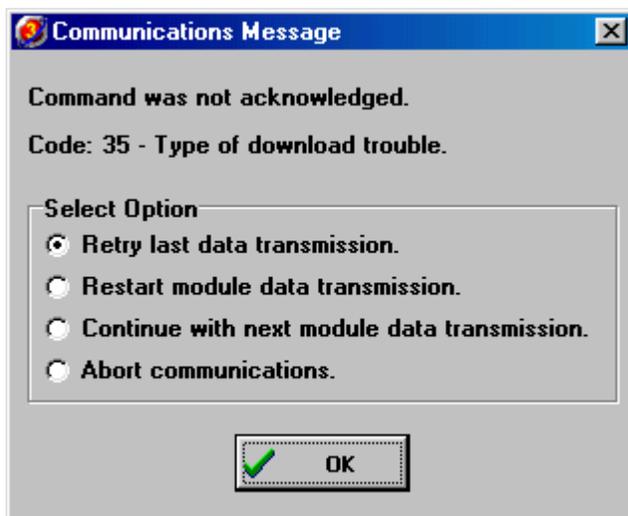
The following table shows the DOS Code Page support required to have a printout in the local language. Since not all of Windows characters are available on the DOS printer, some characters may not be supported.

EST3 Code Page	Printer Code Page
936 (Chinese Simplified)	Windows Code Page 936 (GB)
949 (Korean)	Windows Code Page 949 (Extended Wansung)
950 (Chinese Traditional)	Windows Code Page 950 (Big 5)
1250 (Eastern Europe)	DOS Code Page 852
1251 (Cyrillic)	DOS Code Page 866
1252 (Western Europe)	DOS Code Page 850
1253 (Greek)	DOS Code Page 869
1254 (Turkish)	DOS Code Page 857
1255 (Hebrew)	DOS Code Page 862

12 NEW BOOTSTRAPS FOR LOOP CONTROLLER LRMS

The loop controller for the new LRMs (3-SSDC1/3-SDDC1/3-AADC1) supports all previous application versions. However, because of the expanded memory capabilities of the new LRMs, the loop controllers do not support previous versions of bootstraps. Therefore, new bootstraps have been created that are compatible with the old LRMs (3-SSDC/3-SDDC1/3-AADC) and the new LRMs (3-SSDC1/3-SDDC1/3-AADC1).

To eliminate the possibility of corrupting the new loop controllers and making them unusable, the new bootstraps prevent the downloading of previous versions of bootstraps. The 3-SDU produces the following error message when a previous version of bootstrap is downloaded to a LRM with the new bootstrap.



The new bootstraps are automatically installed with version 3.4 of the 3-SDU

For earlier versions of the 3-SDU, obtain the compatible bootstrap from EST's Web site and import the microcode. To import the microcode, from the 3-SDU choose Option > Import Micro Code and select the new bootstrap. After importing the microcode, exit the 3-SDU, restart the 3-SDU, on the Configure > Cabinet > MicroCode screen reselect the microcode version of the 3-SSDC/3-SDDC/3-AADC.

See the following table for the bootstrap version that matches your application microcode:

	Application Microcode	Bootstrap version required	3-SDU
3-SSDC(1)/3-SDDC(1)	V1.52, V2.1	V2.11	1.33 or higher
3-SSDC(1)/3-SDDC(1)	V3.31	V3.31	3.0 or higher
3-AADC(1)	V1.4, V2.1, V3.1	V3.11	1.4 or higher
3-SSDC1/3-SDDC1	V3.4 is not supported in 3-SDU versions prior to V3.4		

13 KNOWN ISSUES

13.1 CRC

When a CRC's relay device type is configured as Non Supervised Output, the device type is shown in the Object Configuration table as Supervised Output. Refer to this device type as *SupervisedOutput* when writing rules.

13.2 Programming

Do not use apostrophes (') in an object label when writing a rule.

13.3 Calibrate command

The Calibrate command for EA series devices has a maximum adjustment of 40% dirty. When calibrating a device that has been cleaned or is new, perform the Calibrate command several times in succession, waiting 20 seconds in between.

13.4 3-ASU

If you receive a Code 33 Error when downloading the database to the 3-ASU, you must reduce the message file size or quantity of messages.