

# 3-SDU Version 4.01 Release Notes

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## 1. Introduction

These release notes contain a summary of the changes made for version 4.01 of the 3-SDU. The notes may also include information that was not available for inclusion in the documentation or Help system at publication time.

Because V3.83, V3.82, and V3.80 each had a limited release, these release notes list changes made since V3.70 of the product.

### Notes

- Please read these notes in their entirety before attempting to install your new version of the 3-SDU. For details on upgrading systems using the network download feature see “8. Upgrading microcode versions to 4.0” on page 18.
- The use of “x” in a model number may indicate several generations of the product. For example, 3-CPUx represents the 3-CPU, 3-CPU1, and 3-CPU3.

- Hardware designed for use in a specific marketplace has a character at the end of the model number to indicate the marketplace. For example, a “C” indicates the Chinese marketplace. Firmware does not carry a marketplace designation.
- When editing an object's messages, there are now two ways that the object's location message can be specified. Traditional LCDs like the 3-LCD, 3-LCD-AU, and 3-LCD-AU2 show the location message on two lines of 21 characters each. The 3-LCDXL and 3-LCDXL1 show the location message on a single line of 40 characters. If a project contains only traditional LCDs, then the location message is entered in the “Two-Line Display” area. If a project contains only 3-LCDXL or 3-LCDXL1 displays, then the location message is entered in the “Single-Line Display” area. If a project contains a mixture of both types of LCDs, both areas of entry are enabled. Storing two versions of text in the 3-CPU database would require too much space, so the location text should be formatted to be readable on both types of displays.

A new check added to the precompile segment of Rules Compile generates warnings for each object message that exceeds 40 characters.

## 1.1 New software versions

3-SDU version 4.01 includes new updated firmware for the products listed in Table 1. Note: Microcode 4.0 versions include all previous version features.

**Table 1: New EST3 software and microcode versions**

Description	Version
3-CPUx microcode	4.0
3-EAxC microcode	4.0
3-SxDC1 microcode	4.0

## 1.2 Contacting technical support

Contact technical support if you encounter any difficulties during this installation. Please make sure you have the diagnostic or log files ready before you contact technical support.

Edwards  
 8985 Town Center Parkway  
 Bradenton, FL 34202  
 T +1 800 655 4497  
 F +1 866 226 2126  
 E [est.techsupport@fs.utc.com](mailto:est.techsupport@fs.utc.com)

## 2. What's new in 3-SDU version 4.01

3-SDU version 4.01 includes the features in all previously released versions, with the addition of the following new features:

- Support for SIGA2 sensors and modules
- Renaming of Australian marketplace to Australian AS4428
- New marketplaces for Arabic Local and Proprietary, Australian AS7240, China Local and Proprietary, New Zealand, and Singapore
- Arabic language support (limited to those shown in “4.1 Arabic language supported characters” on page 8)
- 3-SDU context-sensitive Help
- Merge of versions 3.83 (China release), 3.82 (China release), 3.80 (Singapore release), and 3.90 (SIGA2)
- Performance and quality resolutions and enhancements
- Support for Windows 7, and 32-bit or 64-bit operating systems

### 2.1 Support for all SIGA2 sensors and modules

- Each CO sensor can be programmed as one of three new device types: COAlarm, COMonitor, or COSupervisory.
- Each CO sensor can be commanded to accelerate its detection time, for testing purposes.
- SIGA2-PHS detectors can report separately when their photo and heat elements activate, or report when either element activates like traditional SIGA-PHS detectors.
- The photo element of the PHS detector can be bypassed for maintenance and testing.
- The term “Alternate Sensitivity” is changed to “Alternate Sensing.” Alternate Sensing includes all Alternate Sensitivity features with the addition of PHS Alternate Operations. Note: Existing rules that use “Alternate Sensitivity” will still work.
- Sensor responses are now configured using personality codes.
- The new SIGA-TCDR Temporal Pattern Generator module generates sound patterns for carbon monoxide (CO) and fire alarm signals based on the type of sensor activation. Note: Requires the SIGA-AB4GT sounder base.
- End of Life reporting is available for CO sensors.
- The SIGx- prefix on sensors and modules has been removed.

## 2.2 New marketplaces

3-SDU Version 4.01 includes all of the following marketplaces. Previously, these were distributed only in customized releases.

- Singapore marketplace addition, released in 3-SDU 03.80.00 for Singapore only
- China marketplace addition, released in 3-SDU 03.82.00 and 3-SDU 03.83.00, supports marketplace requirements and language fonts
- Australian marketplace, renamed to Australian AS4228, supports existing EST3 marketplace requirements in Australia
- Australian marketplace AS4270, for existing EST3 with Edward Analog support using Ziton and European sensors and modules (EN 54)
- New Zealand marketplace, for existing EST3 with Edward Analog support using Ziton and European sensors and modules (UL)

## 2.3 Renaming of Australian marketplace

3-SDU Release 4.01 renames the Australian marketplace to Australian AS4428.

## 2.4 Arabic language support

The Arabic marketplace addition supports a new language font and screen layouts for the Arabic marketplace. Only the 3-LCDXL and 3-LCDXL1 are supported.

## 2.5 SDU Help

3-SDU version 4.01 provides SIGA2 Help topics, and implements context-sensitive Help (pressing the F1 key displays a Help topic that corresponds to the location and task being performed within the SDU).

SDU Help requires that you have Internet Explorer 6 or later installed. The compiled HTML Help file is not compatible with other Web browsers.

## 2.6 Merge previous versions

Version 4.01 merges the following previous versions that were released for specific marketplaces: 3.83, 3.82, 3.80, and 3.74. All of the features and functions contained in these previous releases are carried forward into the single release of 3-SDU V4.01, regardless of marketplace.

**Note:** Some features designed for a specific marketplace are not available in other marketplaces. Some features originally available only in individual marketplaces have been added to V4.01 for use in all marketplaces.

The following sections list, for your convenience, the content of the previous releases of the 3-SDU that are combined in V4.01.

### **2.6.1 Previously released in version 3.83 (China marketplace)**

SDU version 3.83 added the following new features:

- China Local and Proprietary marketplaces
- Interlock and Interlockfeedback device types
- 3-LCDXL1C and display layout
- AC power monitored by setting
- Cabinet Log to History filters
- Master Cabinet setting upgrade

In order to use these features, you must set the Market Place option on the Project Parameters > Operations tab for China Local or China Prop and install the following hardware:

- |  |  |
|--|--|
| • 3-LCDXL1C Main LCD Display               | • 3-SSDC1C, 3-SDDC1C, and 3-DSDC1C Signature Loop Controller with 3-SDC1C card |
| • SIGA-CC1 Single Input Signal Module      | • 3-12/S2R Control/LED Display   |
| • SIGA-CC2 Dual Input Signal Module        | • 3-6/3S2RY Control/LED Display  |
| • SIGA-MCC1 Single Input Signal Module     | • 3-PPS/M-230C Primary Power Supply  |
| • SIGA-CT1 Single Input Module             | • 3-BPS/M-230 Booster Power Supply   |
| • SIGA-IO Input/Output module              | • 3-BBC/M-230 Booster Power Supply   |
| • SIGA-HRSI(C) Class A2R Heat Detector     |  |
| • SIGA-PS(IC) Photoelectric Smoke Detector |  |

### **2.6.2 Previously released in version 3.82 (China marketplace)**

SDU version 3.82 added the following features:

- Battery Depleted signal
- User timeout
- Scrolling speed
- Steady Alarm LED enabled
- Cabinet Port Restorations History filter

### **2.6.3 Previously released in version 3.80 (Singapore marketplace)**

SDU version 3.80 added the following features:

- New marketplace for Singapore
- Allow Disables only in Singapore marketplace
- New CMS Supervised and Non-Supervised device types only in Singapore marketplace

### **2.6.4 Previously released in version 3.74 (all marketplaces except China and Singapore)**

SDU version 3.74 added the following new features:

- Removed check-in groups and emergency devices from 3-SDU
- Increased the number of MODCOM and MODCOMP allowed in a project to 60
- Increased the number of AND groups allowed in a project to 999
- Added the ability to scroll the annunciator configuration screen grid and save the form position
- Removed relay sounder base groups from the BuildingReport.com report
- Added the 3 Switch/4 LED x 4 - (3-4/3SGYWR) device
- Removed the restriction on duplicate serial numbers in a project
- Changed the initial default setting for K5 on RZB12-6/3

## **2.7 Performance enhancements and quality resolutions**

Version 4.01 supports new features and equipment (SIGA2) and includes performance and quality improvements.

- Audio channel and message labeling is restricted to allowable text lengths.
- When adding a 3-LCDXL or 3-LCDXL1 to an existing project, location text is reduced to fit on the 80-character display. A warning message now displays when adding a 3-LCDXL or 3-LCDXL1 to an existing project.

## **3. Operating system compatibility**

3-SDU V4.01 is compatible with the Microsoft Windows 2000, Windows XP, Windows Vista, and Windows 7 operating systems.

Version 4.01 can be installed on 32-bit or 64-bit operating systems. Note: The Version 4.01 installer does not support a Windows uninstall. If you need to uninstall V4.01, you will have to manually remove the installed files and directories.

The installer must select either the 32-bit or 64-bit HASP when prompted.

## 4. Language support

The following table details the language support available in SDU V 4.01.

**Table 2: Language support**

Language	US	Canada	Europe	Asia	Middle East	Australian AS4428	China	Singapore	Australian AS7240	New Zealand	Arabic
Arabic [1]											X
Chinese (Simplified PRC)				X			X		X		
Chinese (Traditional Taiwan)				X							
Dutch (Standard - Netherlands)			X								
English (Australia)						X					
English (Britain)			X								
English (USA)	X	X	X	X	X	X	X	X	X	X	X
Finnish (Finland)			X								
French (Canada)	X	X									
German (Standard - Germany)			X								
Hebrew (Israel)	X				X						
Italian (Italy)	X		X								
Korean (Extended Wansung - Korea)				X							

Language	US	Canada	Europe	Asia	Middle East	Australian AS4428	China	Singapore	Australian AS7240	New Zealand	Arabic
Polish (Poland)			X								
Portuguese (Brazil)	X										
Portuguese (Standard - Portugal)			X								
Russian (Russia)	X		X								
Slovak (Slovakia)			X								
Spanish (Mexico)	X										
Spanish (Modern Sort - Spain)			X								
Turkish (Turkey)	X		X								

[1] The specific Arabic characters supported are shown in Table 3 below.

**Note:** KPDISP provides a single layout for use in the markets and languages served by the American, Middle East, and Australian marketplaces.

#### 4.1 Arabic language supported characters

Table 3 is a complete list of supported Arabic characters. (All standard characters between 32 and 126 in Windows Code Page 1256 are supported.)

**Table 3: Supported Arabic language characters**

Windows 1256 Code	DOS 864 Code	Contextual Forms				Name
		Isolated	Final	Medial	Initial	
193	193	ء	-	-	-	hamza
194	194, 162	آ	ﺀ	-	-	alef madda above
195	195, 165	إ	ﺀ	-	-	alef hamza above
196	196, 196	ؤ	ؤ	-	-	waw hamza



Windows 1256 Code	DOS 864 Code	Contextual Forms				Name
		Isolated	Final	Medial	Initial	
197	199, 168	ا	آ	-	-	alef hamza below
198	233, 245, 198, 198	ي	ي	د	د	yeh hamza
199	199, 168	ا	ا	-	-	alef
200	169,169,200,200	ب	ب	ب	ب	beh
201	201, 201	ة	ة	-	-	teh marbuta
202	170, 170, 202, 202	ت	ت	ت	ت	teh
203	171, 171, 203, 203	ث	ث	ث	ث	theh
204	173, 173, 204, 204	ج	ج	ج	ج	jeem
205	174, 174, 205, 205	ح	ح	ح	ح	hah
206	175, 175, 206, 206	خ	خ	خ	خ	khah
207	207, 207	د	د	-	-	dal
208	208, 208	ذ	ذ	-	-	thal
209	209, 209	ر	ر	-	-	reh
210	210, 210	ز	ز	-	-	zain
211	188, 188, 211, 211	س	س	س	س	seen
212	189, 189, 212, 212	ش	ش	ش	ش	sheen
213	190, 190, 213, 213	ص	ص	ص	ص	sad
214	235, 235, 214, 214	ض	ض	ض	ض	dad
216	215, 215, 215, 215	ط	ط	ط	ط	tah
217	216, 216, 216, 216	ظ	ظ	ظ	ظ	zah
218	223, 197, 236, 217	ع	ع	ع	ع	ain
219	238, 237, 247, 218	غ	غ	غ	غ	ghain

Windows 1256 Code	DOS 864 Code	Contextual Forms				Name
		Isolated	Final	Medial	Initial	
220	224,224	—	-	—	-	tatweel
221	186, 186, 225, 225	ف	ف	ف	ف	feh
222	248, 248, 226, 226	ق	ق	ق	ق	qaf
223	252, 252, 227, 227	ك	ك	ك	ك	kaf
225	251, 251, 228, 228	ل	ل	ل	ل	lam
227	239, 239, 229, 229	م	م	م	م	meem
228	242, 242, 230, 230	ن	ن	ن	ن	noon
229	243, 243, 244, 231	ه	ه	ه	ه	heh
230	232, 232	و	و	-	-	waw
236	233, 245, 234, 234	ى	ى	ي	ي	alef maksura
237	253, 246, 234, 234	ي	ي	ي	ي	yeh
225 + 199	157, 158	لا	لا	-	-	lam alef
225 + 194	249, 250	لآ	لآ	-	-	Lam alef with madda above
225 + 195	153, 154	لأ	لأ	-	-	Lam alef with hamza above
225 + 197	157, 158	لاِ	لاِ	-	-	Lam alef with hamza below
145	39	‘				Left single quotation mark
146	39	’				Right single quotation mark
161	172	،				Arabic comma
186	187	؛				Arabic semicolon
191	191	؟				Arabic question mark
215	222	×				Multiplication sign
247	221	÷				Division sign

## 4.2 Bilingual language character sets

When primary and secondary languages are selected, both languages must be supported in the same font table.

**Table 3: Bilingual character sets**

<b>EST3 code page</b>	<b>Bilingual language sets</b>
1250 (Eastern Europe)	Croatian, Czech, English, Hungarian, Polish, Slovak
1251 (Cyrillic)	English, Russian
1252 (Western Europe)	Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Portuguese, Spanish, Swedish
1254 (Turkish)	English, Turkish
1255 (Hebrew)	English, Hebrew

## 4.3 Printer code pages

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

**Table 4: Printer code pages**

<b>EST3 code page</b>	<b>Printer code page</b>
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
1254 (Turkish)	DOS Code Page 857
1255 (Hebrew)	DOS Code Page 862
1256 (Arabic UL)	DOS Code Page 864

## 5. Software versions and compatibility

### 5.1 LRM compatible versions

You must upgrade all applicable microcode versions to take full advantage of the new features offered in 3-SDU V4.01.

**Table 6: 3-SDU version 4.01 software compatibility**

LRM	Oldest version *	Shipping version	Medium	Part number
3-ASU	1.4	3.4	CD	3-SDU
3-AADC	1.4	3.41	CD	3-SDU
3-AADC1	1.4	3.71	CD	3-SDU
3-CPUx	1.33	3.70	CD	3-SDU
3-EASC	3.4	3.6	CD	3-SDU
3-EADC	3.4	3.6	CD	3-SDU
3-FTCU	1.0	1.2	Chip	190156
3-FTCU	1.4	3.4	Chip	190254
3-IDC8/4	1.1	3.6	Chip	190159
3-LDSM	1.0	3.0	Chip	190153
3-MODCOM(P)	3.0	3.6	CD	3-SDU
3-OPS	1.0	3.0	Chip	190158
3-PPS	1.0	3.61	Chip	190157
3-BPS	1.0	3.61	Chip	190157
3-BBC	3.0	3.6	Chip	190157
3-RS485-A/B		1.5	PAL Chip	190271
3-RS485-R				
3-SSDC	1.52	3.32	CD	3-SDU
3-SDDC	2.1	3.32	CD	3-SDU
3-SSDC1	1.52	3.7	CD	3-SDU
3-SDDC1	2.1	3.7	CD	3-SDU
3-SAC	3.1	3.6	CD	3-SDU
3-ZA15	1.1**	N/A	Chip	190151
	1.3	N/A	PAL Chip	190191
3-ZA20A	1.4	3.61	Chip	190252
	1.4	1.4	PAL Chip	190191
	1.0	1.0	PAL Chip	7400068
3-ZA20B	1.4	3.61	Chip	190252

LRM	Oldest version *	Shipping version	Medium	Part number
	1.4	1.4	PAL Chip	190191
	1.0	1.0	PAL Chip	7400068
3-ZA30	1.1**	N/A	Chip	190151
	1.3	N/A	PAL Chip	190191
3-ZA40A	1.4	3.61	Chip	190252
	1.4	1.4	PAL Chip	190191
	1.0	1.0	PAL Chip	7400068
3-ZA40B	1.4	3.61	Chip	190252
	1.4	1.4	PAL Chip	190191
	1.0	1.0	PAL Chip	7400068
3-ZA90	1.4	3.61	Chip	190252
	1.4	1.4	PAL Chip	190191
3-ZA95	1.4	3.61	Chip	190252
	1.0	1.0	PAL Chip	7400068
CRC	1.3	1.7	CD	3-SDU
KPDISP	1.0	1.6	CD	3-SDU
CDR-3	2.0	3.5	Chip	190071

\*Oldest version still compatible with the current version of 3-SDU

\*\*Version 1.12 required for stand-alone mode disabled feature. To obtain V1.12, request a deviation version for part number 190151 from Technical Support.

## Notes

- 3-CPUx V4.0 microcode cannot reside on the same network as earlier 3-CPUx microcode. To use 3-SDU V4.01, all panels must be upgraded to V4.0. Networks with 3-CPU microcode version 1.4 or later can be upgraded with the 3-SDU by using the network download function. See “8. Upgrading microcode versions to 4.0” on page 18.
- The 3-CPU3 is 100 percent backward compatible with, and can be installed on the same network as, 3-CPU1 and 3-CPU. The 3-CPU3 and 3-CPU1 require at least version 1.41 microcode.
- 3-FTCU firmware comes in two noninterchangeable forms. Part 190254 cannot be used to update Part 190156, and vice versa.

## 5.2 3-SDU database compatibility

Use 3-SDU V4.01 to generate databases for the LRMs listed in Table 6.

**Table 7: LRM microcode supported by 3-SDU V4.01**

LRM	3-SDU supported microcode versions
3-AADC	V1.4, V3.0, V3.1, V3.41
3-AADC1	V1.4, V3.0, V3.1, V3.41, V3.6, V3.7, V3.71
3-ASU	V1.4, V3.0, V3.1, V3.4
3-CPU	V1.41, V1.52, V2.0, V3.0, V3.1, V3.2, V3.41, V3.5, V3.6, V3.7, V3.80, V3.82, V3.83, V4.0
3-EADC/EADC	V3.4, V3.6, V4.0
3-MODCOM(P)	V3.0, V3.1, V3.11, V3.12, V3.6
3-SAC	V3.1, V3.5, V3.6
3-SSDC/SDDC	V1.52, V2.1, V3.32
3-SSDC1/SDDC1	V1.52, V2.1, V3.32, V3.6, V3.7, V3.71, V3.83, V4.0
CRC	V1.3, V1.4, V1.5, V1.6, V1.7
KPDISP	V1.0, V1.1, V1.2, V1.3, V1.4, V1.5, V1.6

## 5.3 Latest compatible versions

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

**Table 8: LRM and 3-CPU microcode compatibility**

LRMs	3-CPU microcode versions												
	V1.52	V2.0	V3.0	V3.1	V3.2	V3.41	V3.5	V3.6	V3.7	V3.80	V3.82	V3.83	V4.0
3-AADC	V1.4	V2.1	V2.1	V3.1	V3.1	V3.41	V3.41	V3.41	V3.41	V3.41	V3.41	V3.41	V3.41
3-AADC1	V1.4	V2.1	V2.1	V3.1	V3.1	V3.41	V3.41	V3.6	V3.7	V3.7	V3.71	V3.71	V3.71
3-ASU	V1.4	V3.4	V3.4	V3.4	V3.4	V3.4	V3.4	V3.4	V3.4	V3.4	V3.4	V3.4	V3.4
3-EASC	---	---	---	---	---	V3.4	V3.4	V3.6	V3.6	V3.6	V3.6	V3.6	V4.0
3-EADC	---	---	---	---	---	V3.4	V3.4	V3.6	V3.6	V3.6	V3.6	V3.6	V4.0
MODCOM (P)	---	---	V3.0	V3.12	V3.12	V3.12	V3.12	V3.6	V3.6	V3.6	V3.6	V3.6	V3.6
3-SAC	---	---	---	V3.4	V3.5	V3.5	V3.5	V3.6	V3.6	V3.6	V3.6	V3.6	V3.6
3-SSDC	V1.52	V2.1	V3.32	V3.32	V3.32	V3.32	V3.32	V3.32	V3.32	V3.32	V3.32	V3.32	V3.32
3-SDDC	V1.52	V2.1	V3.32	V3.32	V3.32	V3.32	V3.32	V3.32	V3.32	V3.32	V3.32	V3.32	V3.32
3-SSDC1	V1.52	V2.1	V3.32	V3.32	V3.32	V3.6	V3.6	V3.6	V3.7	V3.7	V3.82	V3.83	V4.0

LRMs	3-CPU microcode versions												
	V1.52	V2.0	V3.0	V3.1	V3.2	V3.41	V3.5	V3.6	V3.7	V3.80	V3.82	V3.83	V4.0
3-SDDC1	V1.52	V2.1	V3.32	V3.32	V3.32	V3.6	V3.6	V3.6	V3.7	V3.7	V3.82	V3.83	V4.0
CRC	---	---	---	V1.4	V1.4	V1.4	V1.6	V1.7	V1.7	V1.7	V1.7	V1.7	V1.7
KPDISP	---	---	---	V1.4	V1.4	V1.4	V1.5	V1.6	V1.6	V1.6	V1.6	V1.6	V1.6

## 6. Version 4.0 microcode updates

3-SDU V4.01 includes the following microcode updates:

- 3-CPUx microcode, version 4.0
- 3-SxDC1 microcode, version 4.0
- 3-EAxC microcode, version 4.0

Microcode 4.0 versions include all previous version features.

### 6.1 3-CPUx version 4.0 microcode

- Added support for SIGA2 sensors and modules
- Added or merged support for all marketplaces
- Added or merged language support for all marketplaces

### 6.2 3-SxDC1 version 4.0 microcode

- Added support for the SIGA2 sensors and modules.

#### Corrections

- Versions 3.4 and 3.5 of the 3-SSDC1 application code had an issue with alarm verification: when a device was in verification, and then reached the alarm threshold, the loop controller may have rebooted. Upgrade all projects that use alarm verification to this new version of 3-SSDC1 application code.

### 6.3 3-EAxC V4.0 microcode

- Added and updated support for the European, New Zealand, and Australia AS7240 marketplaces.

### 6.4 Previous microcode versions

The following table shows the contents of previous microcode versions, for your convenience.

**Table 9: Microcode versions previous to 4.0**

LRM	Version	Change	Contents
3-CPUx	3.83	Enhancements	<ul style="list-style-type: none"> <li>Added new UI layout and language.</li> <li>Relabeled Bins.</li> <li>Added support for Master Cabinet.</li> <li>Added ACFail event type and the monitoring of AC Power Failure on remote power supplies.</li> <li>Added support for Interlock and Interlockfeedback devices.</li> <li>Added support for Interlockfeedback failure event.</li> </ul>
		Corrections	<ul style="list-style-type: none"> <li>Previous versions had problems with the execution of partition reset from a command list in a network configuration, which has been corrected in this release.</li> <li>Previously the Level 4 password could not be modified in the European marketplace. This has been corrected.</li> <li>Previously the 3-MODCOM(P) would transmit a normal test message while the LRM was disabled. This has been corrected so that it transmits an abnormal test message.</li> <li>In V3.5 the EST3 could, under some conditions, send a Gateway status indicating that there were no panels communicating on the network. This has been corrected so that the status message always indicates that at least the local panel is communicating.</li> <li>The FirstDisable message is not displayed in the Trouble queue in the European marketplace.</li> <li>Gateway communications has been updated to handle long latency LAN connections in a more robust manner. Previously, under some conditions, it was possible for gateway commands to be lost.</li> </ul>
	3.82	Enhancement	<ul style="list-style-type: none"> <li>Added new UI layout and language.</li> </ul>
	3.80	Enhancements	<ul style="list-style-type: none"> <li>Added support for allowing disablement.</li> <li>Added CMSSupervisoryoutput and CMSNonSupervisoryoutput device types.</li> </ul>
			<ul style="list-style-type: none"> <li>Addressed AC Failure and Reset Partition.</li> </ul>
3-EAxC	3.6	Correction	<ul style="list-style-type: none"> <li>New version prevented noise from activating stand-alone alarm devices.</li> </ul>



LRM	Version	Change	Contents
3-MODCOM(P	3.6	Correction	<ul style="list-style-type: none"> <li>Updated the Contact ID protocol timing to resolve compatibility issues seen with the Sur-Guard SGDRL2A receiver.</li> </ul>
3-SAC	3.6	Enhancement	<ul style="list-style-type: none"> <li>Added support for message annunciation routing.</li> </ul>
CRCx	1.7	Enhancements	<ul style="list-style-type: none"> <li>Addressed a previous issue whereby loose fitting doors or door sensors relocked immediately upon being unlocked. CRCs can in this release be set to remain unlocked for a specific period of time before relocking. The programming of this feature requires ACDB(-KE) V1.4.</li> <li>The number of consecutive access-denied-unknown user reads from the card readers before the reader is disabled is programmable in this release. The amount of time before the reader is re-enabled once a reader disable is active is also programmable. The programming of this feature requires ACDB(-KE) V1.4.</li> </ul>
KPDISP	1.6	Enhancements	<ul style="list-style-type: none"> <li>Added support for message annunciation routing.</li> <li>Added the ACFail event type and the monitoring of AC Power Failure on remote power supplies.</li> </ul>
3-IDC8/4	3.6	Correction	<ul style="list-style-type: none"> <li>Stand-alone alarm can no longer be triggered by an active Supervisory circuit.</li> </ul>
3-PPS/BPS/BBC firmware	3.6	Corrections	<ul style="list-style-type: none"> <li>Previously, intermittent Pwr_Supply_Fail ppcc0617 faults could be generated under light supervisory load conditions. This has been corrected in this release.</li> <li>The AC_Brownout ppcc0614 fault is now of type ACFAIL. Rules referencing this device will need to be updated.</li> <li>Corrected Power Supply from posting a false "Rail Voltage Out of Spec" trouble.</li> <li>Rail Voltage Below Battery Voltage is detected in this release.</li> </ul>

## 7. Installing and upgrading to 3-SDU V4.01

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 runs best on a computer with a resolution of 1024 x 768 (or better) and small fonts. If any other settings are used, the system will resize some of the dialog boxes.

Install only one version of the 3-SDU on your PC.

## **7.1 Running the 3-SDU**

Remember to install your security key in your computer's parallel (LPT1) or USB port. Any other devices that share this port must be plugged into the key.

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

## **7.2 ECP gateway port selection**

See the external equipment manufacturer's documentation for a compatible ECP gateway selection.

If an ECP port is configured on the 3-CPUx, then 38.4 Kbaud is not supported for download via the auxiliary ports to the 3-CPUx. 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-CPUx; 38.4 Kbaud is instead supported. The RJ-11 connector always supports 19.2 Kbaud and 38.4 Kbaud for downloading.

# **8. Upgrading microcode versions to 4.0**

## **8.1. 3-CPUx version 4.0**

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

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 V4.0. Please follow these steps in the correct order to upgrade the hardware and software in your system.

**Note:** Do not mix different versions of 3-CPUx microcode on the same network. Upgrade an existing system by carefully following one of the two procedures that follow, depending on whether your current software version number is earlier or later than V1.33.

### **To upgrade V1.33 or earlier to V4.0:**

1. Install 3-SDU version 4.01.
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. Disconnect the 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-SDDC database, code, or bootstrap.)
11. Connect the laptop to a node CPU, click Download, and then click Start to download the code.
12. From the File Display Filter group, select Database. Click Download, and then click Start to download the code.
13. Connect the laptop directly to the loop controller and the 3-ASU to download the application and bootstrap code.
14. Select database and download as required.
15. After all nodes are upgraded, reconnect the network wiring to all panels.
16. Using the Command Menu, restart the system.

**To upgrade V1.4 or later to V4.0:**

1. Install 3-SDU version 4.01.
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 in the network (any node for Class A networks), click Download, and then click Start to download version 4.0 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 then click Start to network download version 4.0 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 4.0 bootloader code to all nodes.

## **8.2 Upgrading firmware on 3-DSDC(1)(C), 3-SDDC(1)(C), and 3-AADC(1) loop controllers**

You must upgrade the 3-CPUxs before upgrading the loop controllers.

You can upgrade the loop controllers 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.

You must complete each of the following steps in separate download sessions.

### **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 front panel display, 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.

## **8.3 Upgrading the 3-ASU**

When upgrading the 3-ASU, we recommended that you do so in the following order:

1. Download the boot code.
2. Download the application code.

3. Download the database.

## **8.4 Upgrading the CRC**

When upgrading the CRC/CRCXM, we recommend that you do so in the following order:

1. Download the SDU application code.
2. Download the SDU database.
3. Download the ACDB database (from the CRC Administration tab, select the Destination DB Init task).

## **9. Known issues**

The following known issues exist for 3-SDU version 4.01.

### **9.1 Windows 7**

To install on a machine running Windows 7, administrator rights must be used. Run setup.exe by right-clicking and choosing “Run as Administrator.”

### **9.2 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 between each calibration.

### **9.3 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 the quantity of messages.

### **9.4 Duplicate label text error with unconfigured cabinets**

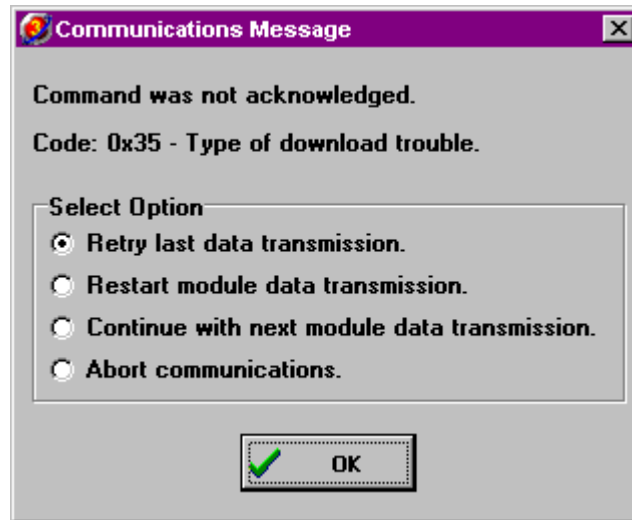
If you try to run a Rules Compile with a project that contains more than ten unconfigured cabinets, the SDU can generate a “duplicate Label Text” error message. If this occurs, go to the Cabinet Configuration dialog box and select the cabinet with the error. Click on the Modules tab, and then close the Cabinet Configuration dialog box and attempt to rerun the Rules Compile.

### **9.5 Loop controller communications error message**

The SDU displays error code 0x35, shown in Figure 1, when downloading application code to a loop controller that has incompatible boot code.

Verify that the loop controller has boot code compatible with 3-SDU V4.01. For more information, see “5. Software versions and compatibility” on page 12 and “8. Upgrading microcode versions to 4.0” on page 18.

Figure 1: Loop controller communications error message



## 9.6 Compatibility with FireWorks version 1.60.01 and earlier

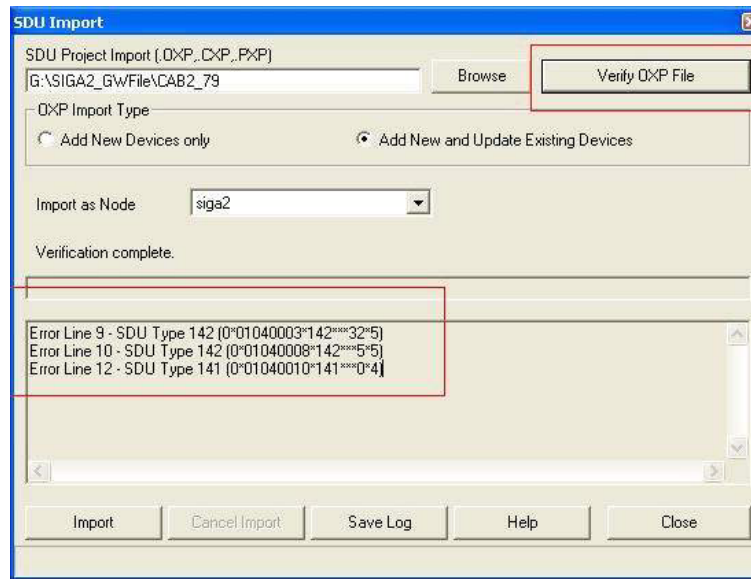
FireWorks versions 1.60.01 and earlier have a compatibility issue with 3-SDU version 4.01, regarding data imported from CO devices and split configuration modes on SIGA2 model detectors only. Since FireWorks does not recognize the CO devices or elements in a split configuration, it reports “undefined errors” for those devices/elements. Note: Split configurations are selected in the Operations option on the Signature Series Configuration – Detectors tab.

The device/element activation produces the following results:

- SIGA2-HCOS activations import as a normal Heat detector activation. CO activations import as undefined errors.
- SIGA2-PHCOS activations import as a normal Photo detector activation. CO activations import as undefined errors.
- SIGA2-PCOS activations import as a normal Photo detector activation. CO activations and supervisory activations import as undefined errors.
- SIGA2-PHS activations import as a normal Photo detector activation. If the device is configured as anything other than ‘Photo/Heat is Alarm’ activations import as undefined errors.
- SIGA2-COS activations import as undefined errors.

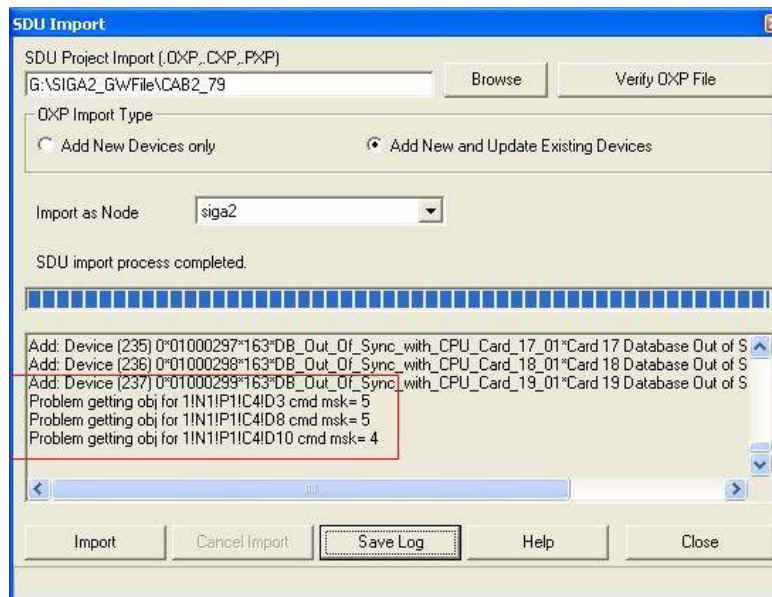
You can verify the data in your import file from the SDU Import window. Click the Verify OXP File button to view data in the OXP file that FireWorks cannot understand. See Figure 2.

**Figure 2: SDU Import errors (types 141 and 142)**



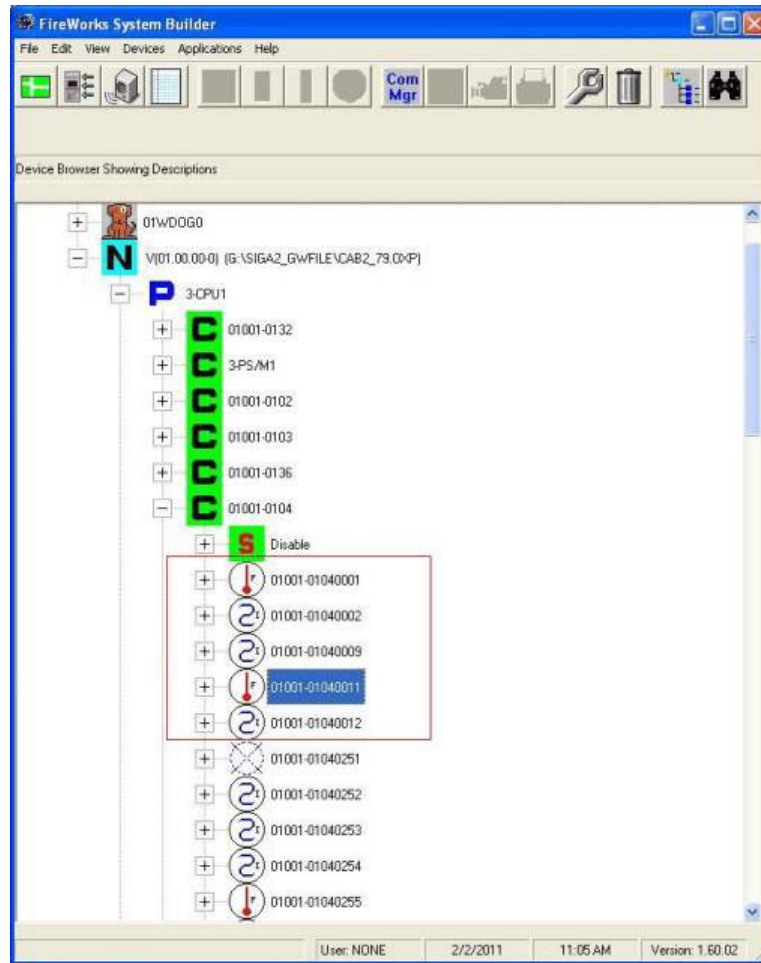
When the import finishes, FireWorks lists the devices that it could not define. See Figure 3.

**Figure 3: SDU Import undefined device messages**



Since FireWorks cannot understand these devices, it does not include them in the System Builder tree. Therefore, the device list may no longer be numbered logically. See Figure 4.

**Figure 4: System Builder sequence interruption due to unrecognized devices/elements**



When one of these devices activates, FireWorks annunciates the event as “undefined” in the System Control window. The messages appear in red in the Event Action and Event List Action panes, are similar to an alarm event, and identify the event as “undefined alarm” or “undefined error.”

### 9.7 SDU mapping issue

When uploading a Signature loop map, any SIGA2-PCOS configured with Personality 51 will always show a map mismatch and be in RED. When looking at the Actual vs. Expected screen, the “CO Setting” will show “N/A” on the Actual side, while the Expected side will display “COAlarm” or “COSupervisory”. If you choose to Accept Actual, the SDU will set the CO Setting to its default value (COSupervisory). Even though these devices show a map mismatch when the Signature Loop Map is uploaded, the EST3 System will not post a map fault trouble.