This document describes how to update ILX34's to firmware version 3.5.0.

Requirements

To do update the firmware on an ILX34, you need:

- The firmware release package, *ControlFLASHv305.zip*.
- A PC running 32-bit Windows XP. XP virtual machine environments and other Windows versions (e.g. Vista, Windows 7) will *not* work.
- An ILX34.
- An Ethernet cable and network connection from your ILX34 to your PC.

If your PC currently has any version of *ControlFLASH* installed, click on the ControlFLASH.msi file provided with the firmware release, and proceed to the section *Flash Programming the ILX34* below.

If your PC doesn not have any version of ControlFLASH installed, you will also need:

• Rockwell's *Connected Components Workshop* package, which can be found here: <u>K:\Development Division\Software\Rockwell Connected Components Workbench</u>

If you do not have access to the above shared folder, you can download the software from Rockwell here:

http://ab.rockwellautomation.com/Programmable-Controllers/Connected-Components-Workbench-Software

(You will need to setup a free account to gain access).

Installing the Connected Components Workshop package

Expand the Connected Components Workshop zip file.

After expansion, go to the *System* folder, then the *ControlFLASH* folder. Rename *ControlFLASH* to something else (e.g. *XControlFLASH*). This will prevent installation of an obsolete version of *ControlFLASH* that will interfere with a newer version we will install later.

Run CCWSetup, select your language, and click Continue. You should see a screen like this:

	Connected Components Work	bench 1.0
onfiaurina Products:	Select one or more features to install	
Connected Components Workbench Rockwell Software Common	C Typical Choose which program	gram features you want installed. advanced users.
		Description:
	B Connected Components Workbench v1.00.00 ControFLASH v3.00.015 ControFLASH v3.00.015 Compatibility Pack for the 2007 Office system Virtual COM Port Device Driver v6.33	View Release Notes for Selected Product
	Hard drive space required to install:	
Connected Components Workbench	Virtual COM Port Device Driver v6.3a	7.4MB

Select the *Custom* radio button as shown above.

As shown above, deselect *Microsoft Office Word Viewer 2003*, *Compatibility Pack for the 2007 Office system*, and *Virtual COM Port Device Driver v6.3a*. Click *Next>*.

In the following screen, enter your user name and company, then click Next.

Accept the license agreement in the next screen and click Next.

In the next screen, click *Install*. Installation will start and you will see some progress screens like the following:



When the system tries to install ControlFLASH v9.00.015, it will display this dialog:

Please insert t ControlF	he CD or specify the path containing: FLASH v9.00.015
Path:	
C:\temp\CDv	/_Version_1.0\System\ControlFlash
OK	Proceed with the installation of ControlFLASH v9.00.015.
Skip	Skip the installation of ControlFLASH v9.00.015 and proceed with the installation of the next product (There are no more products to install.)
Cancel	Stop the installation. All previously installed products will remain installed.

Click *Skip*. You should see something like this:

Connected Components #	orkbench 1.0	THINK SOLVE
Installation Summary: Prerequisites Windows Firewall Configuration Utility v1.00.05 RoSlunk Classic v2.57.00.15 Connected Components Workbench v1.00.00 ControlFLASH v9.00.015	Connected Components Workbench Setup Complete The following log files have been generated: Click here to open your log file directory Rockwell Automation Software Setup - 06282011024014.log You can right click on any of the file names above to easily copy the corresponding path. If you contact technical support, they will ask you to email them any relevant log files. MEPORTANT: Rockwell Automation wants to help support you. Registering your interest in Connected Components Workbench will allow us to notify you of key information, updates and related products. If you would like to register, please go to http://tockwellautomation.custhelp.com/app/utils/create_account Thank you.	

Click Finish to conclude the installation.

Configuring *RSLinx*

From your start menu, go to *Start -> Programs -> Rockwell Software -> RSLinx*, then run *RSLinx Classic*. You should see a new icon in your system tray like this:



Click on the RSLinx Classic tray icon, then click on Communications -> Configure Drivers...



From the list of Available Driver Types, select EtherNet/IP Driver, then click Add New ...

-	Add New	Ciote .
1784-U2DHP for DH+ devices RS-232 DF1 devices Ethernet devices		nep
EtherNet/IP Driver		
1784-PKTXIDI/PCMK for DH+/DH-485 devices DF1 Polling Master Driver 1784-PCC for ControlNet devices	Status	Configure
1784-PCIC(S) for ControlNet devices 1747-PIC / AIC+ Driver DF1 Slave Driver		Startup
DH485 UIC devices Virtual Backplane (SoftLogis58xx, USB)		Start
PLC5 [DH+] Emulator driver SLC 500 (DH485) Emulator driver		Stop
SmartGuard USB Driver Remote Devices via Linx Gateway		Delete

The following dialog will appear; click OK:

	-
hoose a name for the new driver. 5 characters maximum)	OK
	Cancel

Next the following dialog will appear; click OK:

	C		
** Browse Local Subnet	 Browse Hemote Subnet 		
Description		IP Address	
AMD PONET Family PCI Ether	et Adapter - Packet Scheduler Miniport	10.0.2.15	
Windows Default AMD PONET Family PCI Ether	tet Adapter - Packet Scheduler Miniport	10.0.2.15	
windows Delayit AMD PONET Family PCI Etherr	vet Adapter - Packet Scheduler Miniport	10.0.2.15	
windows Detault AMD PCNET Family PCI Ethen	vet Adapter - Packet Scheduler Miniport	10.0.2.15	
windows Delault	vet Adapter - Packet Scheduler Miniport	10.0,2.15	

Finally you should see the following dialog. Click *Close* and exit RSLinx Classic Lite:

EtherNet/IP Driver	Add New.	<u>L</u> eb
onligured Drivers:	- 101-	
Name and Description	Status	
AB_ETHIP-1 A-8 Ethernet RUNNING	Running	Configure
		Statup
		<u>p</u> tart.
		Stop
		Delete

Installing the Firmware Package

Click on *ControlFLASH.msi*. You should see the following; click *Next*:



Agree with the license agreement in the next dialog, then click Next.

In the following dialog, click *Next* to install the application in the default location. Click *Next* again to confirm installation.

Flash programming the ILX34

After installation you should see this dialog:



Select Yes, I want to launch ControlFLASH, then click Close. You should see something like the following; click Next>

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You will be presented with a dialog like the following. There may be additional *catalog numbers* listed for your system. Select *ILX34-AENWG* and click *Next>*

Control	IX34AENWG
FLASH	
THE A	

You should see a dialog like the following:



Click on AB_ETHIP-1, Ethernet on the left pane; you should see something like this:

Image: Solution, MADSSCHUTHEIS ⊕ ♣ H ♣ AB_ETHING Ethernet Image: Solution Image: Solution Image: Solution Image: Solution	Auto	obrowse	Refresh	20	111	Browsin	g - node 19.	2.168.1.5	10 found	
	₩ 2 ₩ 2	Workstation	, MADSSCHUL Leways, Ether IP-1, Ethernet	THEIS net	192 ILX:	168.1 34-AENWO	192.168. ILX34-AEP	1.90 19 WG ILX	2.168.1.99 34-AENWG	

Any ILX34 devices detected will appear in the right pane as in the above example. For our example, we will flash the device shown at IP address 192.168.1.90. (Note that the device at 192.168.1.99 was detected in a previous ControlFLASH session, but it can be ignored.)

Click on the device to flash, then click OK. You will see something like this:

Control	Current Revision: 3.5.0 Select the new revision for this update:
FLASH	Revisi Restrictions
-	<u>Show All</u>
	Bestictions
-	
	Current Folder: c:\program files\controlflash

Select Revision *3.5.0*, which should be the only firmware version that appears. Then click *Next>*. You will get something like:



Click *Finish*, then *Yes* to begin programming the ILX34. Programming is done in four stages, with pauses between the stages. During programming, you will see progress indicators like this:

Catalog Number: Serial Number:	ILX34-AENWG 8DF03AC4	
Current Revision: New Revision:	3.5.0 3.5.0	
Transmitting block	1412 of 6991	

Upon successful completion you should see the following:



Click OK, then Cancel, then Yes to exit ControlFLASH.

Testing the new firmware installation

Power off your ILX34, then power it on. Once the *Point Bus Status LED* is no longer solid red, the unit should be operational with the new firmware.

To verify the new firmware version, open a web browser to the ILX34's IP address. You should see a screen like the following:

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Expand Minimize	Home			
Diagnostics	Host Name			
Groving Chasala	Madule Description	User Entered Text		
	Module Location	User Entered Text		
	IP Address	192.168.1.90 from Switches	Resources	
	Ethernet Address (MAC)	00:0D:8D:F0:3A:C4	Visit ProSoft Technology fo additional information	
	DHCP Enabled	False		
	Status	Awaiting Connection	Contacts	
	Serial Number	SDF03AC4		
	Product Revision	3.005 Build 0		
	Firmware Version Date	Jun 16, 2011 15:21:06		
	Embedded Switch Revision	1.50		

The important thing to notice is that the *Product Revision* is *3.005 Build 0*, which is the version of firmware that you just installed.