



Introduction to Controlflash Plus September 29, 2021

Online Events Register to receive a calendar invite



TECH TALK

- FactoryTalk Linx Gateway
 Wed, October 13, 2021, 10am
- E300 Electronic Overload Wed, October 27, 2021, 10am
- Automation Fair Preview Wed, November 3, 2021. 10am

USER GROUP

• Introduction to Factorytalk Logix Echo Emulation Wed, October 20, 2021 @ 10am







PLAN TO ATTEND

NOV 10-11, 2021 • HOUSTON, TEXAS

Automation Fair®

Learn more and register at www.reynoldsonline.com/automationfair

We are excited to welcome you back to Automation Fair in person!

This year's Automation Fair will feature everything you love from engaging keynote presentations to interactive hands-on labs and technical sessions to industry-centric panel discussions, and our signature exciting show floor showcasing the latest innovations and solutions from Rockwell Automation and members of our PartnerNetwork™.

Your health and safety are our priority and we are working hard to create the safest inperson experience possible. What is certain is that whether you join us in person or virtually, you'll experience the value and power of our IT/OT expertise and have more opportunities than ever before to network with innovation experts, company executives, thought leaders and peers in your field.

Our Guest Panelists

David Nute Automation Specialist The Reynolds Company-Houston Mike Masterson Automation Specialist The Reynolds Company-Houston





ControlFLASH Plus application

Enhanced productivity

Update single or multiple devices in one session. Concurrent updating allows faster time to market and more uptime.

Better lifecycle management

Seamless data integration with Product Compatibility Download Center (PCDC) makes managing the lifecycle of devices simple. Easily review and download firmware kits, view release notes, important notices and lifecycle state of products at-a-glance.

Enhanced usability

Do more with fewer mouse clicks. Apply favorites to reduce errors and get more consistent results. Modern, easy to use and scalable HTML5 based user interface

Devices flashing selection rules

 Users can select one device or multiple devices to be added in the Flash

Firmware list

For a single device:

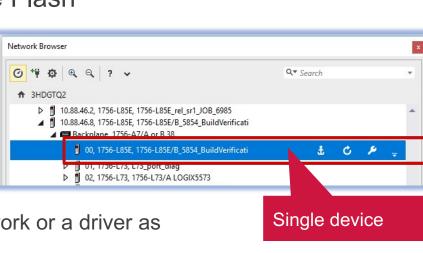
Select device

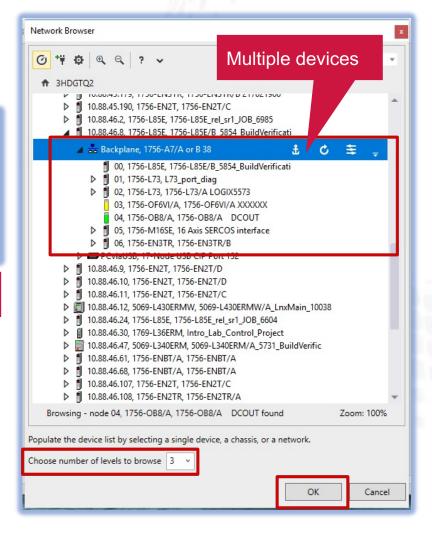
Click OK

For multiple devices:

 Select a backplane, a network or a driver as the entry point

- Select how many levels deep (default is 2 and max is 3) to acquire devices' list – trees must be expanded
- Click OK
- Last path and devices list are saved between sessions



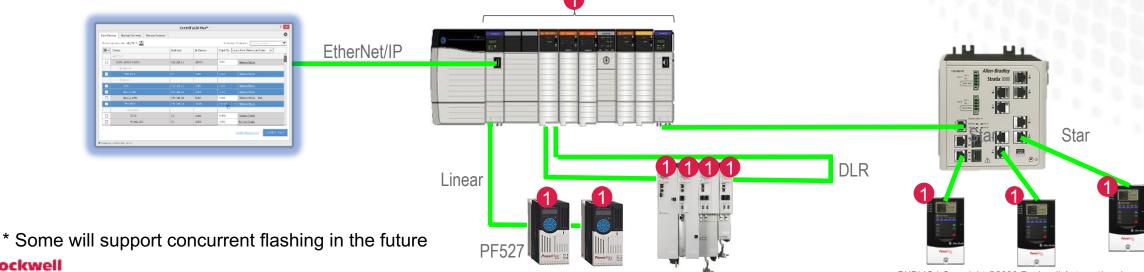




Flash devices – how many devices can be flashed in one session?

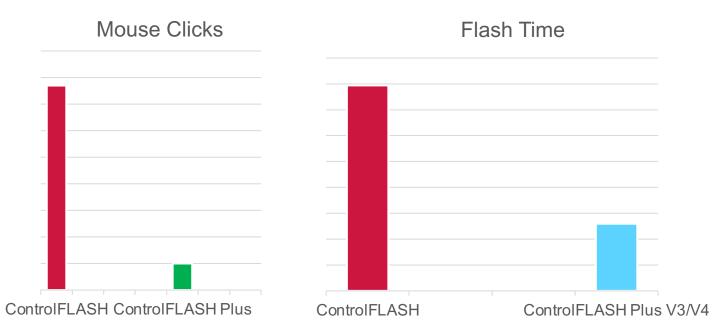
- Tool always attempts to flash up to 20 devices concurrently, with the following exceptions:
 - Devices on linear/DLR topologies supporting multiple resets, e.g., E300 are flashed sequentially
 - PowerFlex®* drives, excluding the PF527, on linear/DLR topologies are flashed sequentially
 - The 1756-DNB, 1756-CNB/CNBR, 1715-AENTR modules are updated sequentially, before their children are
 - Devices on SERCOS and 1715 and those implemented as subassemblies are flashed sequentially (e.g., PowerFlex® option modules)

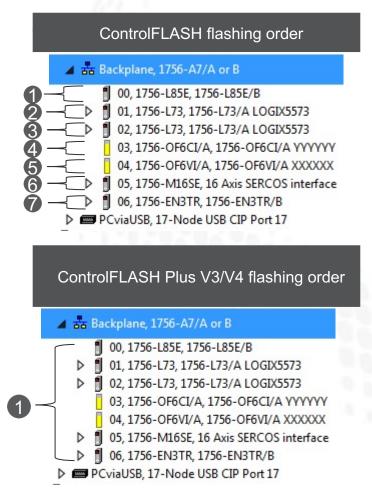
Tool automatically determines the correct order and sets the flashing schedule



Clicks/Time comparison – example*

	ControlFLASH	ControlFLASH Plus™ V3/V4
Mouse Clicks	77	10
Flash Time (mm:ss)	26:28	8:39







Device types, driver, quantity and topology affects results

Flash operation reporting

- By default, a report is automatically created at the end of each flash operation
 - Reports location and default behavior can be user configured
- Makes documenting flashing operations simpler

User Name	RA-INT\MALASPIN						- 1
Computer Name	NAUSMAY60XTNX1						
Date/Time	2/26/2018 9:0	07					
						OK	Cancel
Total		7					
Succeeded		6					
Failed		1					
Canceled		0					
Device	SerialNumber	CommPath	FromRevision	ToRevision File Path		Duration (D.HH:MM:SS)	Status
1756-L85E/B	00c34122	NAUSMAY60XTNX1!Backplane\15\Backplane\0	30.01	30.011 C:\Users\Public\Documents\Rockwell Automation\Firmware Kits\	\1756-L85E_30.011.dmk	0.00:02:22	Succeeded
1756-OF6VI/A XXXXXX	00028E75	NAUSMAY60XTNX1!Backplane\15\Backplane\4	1.01	3 1.013 C:\Program Files (x86)\ControlFLASH\0001\000A\0003\99207412	.nvs	0.00:06:28	Succeeded
1756-OF6CI/A YYYYYY	00016c2f	NAUSMAY60XTNX1!Backplane\15\Backplane\3	1.01	3 1.013 C:\Program Files (x86)\ControlFLASH\0001\000A\0004\99207412	.nvs	0.00:07:50	Succeeded
1756-L74/A LOGIX5574	006c62a0	NAUSMAY60XTNX1!Backplane\15\Backplane\2	30.01	30.011 C:\Users\Public\Documents\Rockwell Automation\Firmware Kits\	\1756-L74_30.011.dmk	0.00:21:37	
							Failed. Flashing attempt Failed! For
							device 2 with revision 30.011.
							Exception:Manually
							Reset module
1756-EN2TR/A	00609a65	NAUSMAY60XTNX1!Backplane\15\Backplane\6	5.02	8 5.028 C:\Program Files (x86)\ControlFLASH\0001\000C\00C8\PN-14875	7.Nvs	0.00:17:33	Succeeded
1756-L73/A LOGIX5573	006ee00f	NAUSMAY60XTNX1!Backplane\15\Backplane\1	29.01	30.011 C:\Users\Public\Documents\Rockwell Automation\Firmware Kits\	\1756-L73_30.011.dmk	0.00:11:37	Succeeded
16 Axis SERCOS interface	7fffffff	NAUSMAY60XTNX1!Backplane\15\Backplane\5	30.00	31.001 C:\Users\Public\Documents\Rockwell Automation\Firmware Kits\	\1756-M16SE 31.001.dmk	0.00:06:59	Succeeded



Settings

 Capabilities comparison

Features	ControlFLASH V15	ControlFLASH Plus V4.00
Command line and scripting		Future
Common install	lacksquare	lacksquare
Communications	RSLinx® Classic, FactoryTalk® Linx and Legacy (non-CIP) protocols	FactoryTalk® Linx V6.20
Controller mode pre-checking	×	$\overline{\checkmark}$
FactoryTalk® AssetCentre Auditing		lacksquare
FactoryTalk® Security		lacksquare
FactoryTalk Updater V2.00.00		lacksquare
Favorites support	×	lacksquare
Firmware cross-compatibility checking	×	lacksquare
Firmware inventory report export	lacksquare	
Firmware kit types supported	MSI and DMK	MSI and DMK
Firmware management	×	lacksquare
Flashing operation reports	×	lacksquare
Hardware and firmware revision lifecycle state	×	
Multi-device update support	×	lacksquare
Product Compatibility Download Center (PCDC) connectivity	×	lacksquare
Supports devices	CIP and non-CIP	CIP only
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ControlFLASH Plus V4.00.00 functionality

Improved productivity and usability

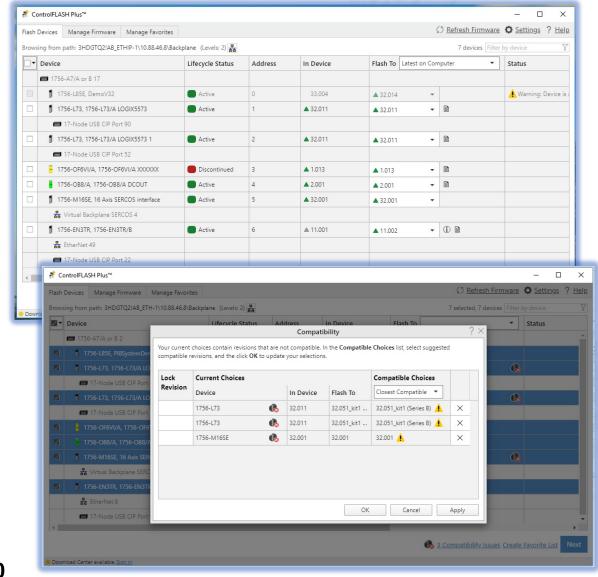
Improved productivity

- Firmware revision cross-compatibility checking identifies issues and suggests compatible choices
- Added firmware revision lifecycle states on Flash Devices and Manage Firmware tabs
- Added hardware lifecycle state on Flash Devices tab
- Automatic detection and reporting of Logix 5000[™] controllers in run mode and safety-locked before update operation starts address devices in wrong states before starting flash operations
- Added permission control for firmware deletion and Product Compatibility Download Center (PCDC) connection via FactoryTalk[®] Security

Improved usability

- Firmware inventory building performance improvements
- Includes FactoryTalk Updater V2.00.00, FactoryTalk Services and FactoryTalk[®] Linx V6.20

Available December 2020

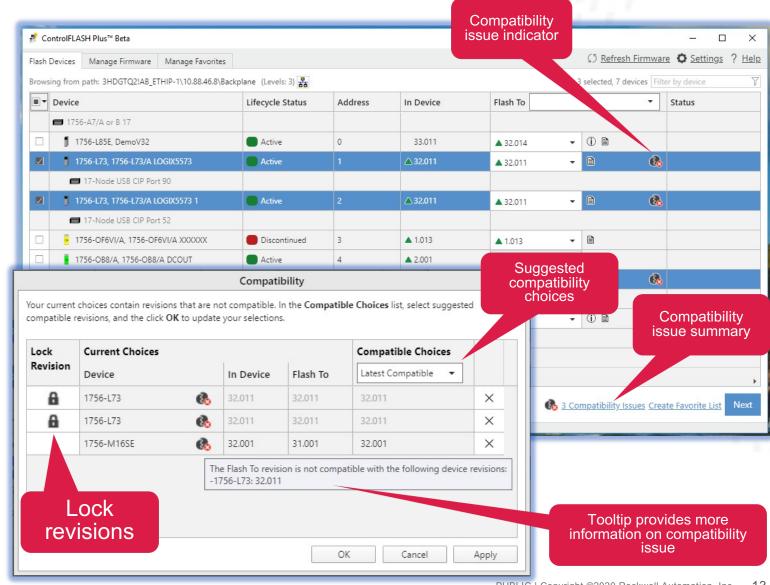




Firmware revisions compatibility checking

Improved lifecycle management

- Tool checks firmware selections for compatibility using information stored on PCDC
 - Checking is done for all modules whether selected or not
- Tool will make suggestions, closest and latest compatible
- User can lock one or more revision selections
- Tooltip will show details about compatibility issue
- User can override compatibility results and proceed with flash operation

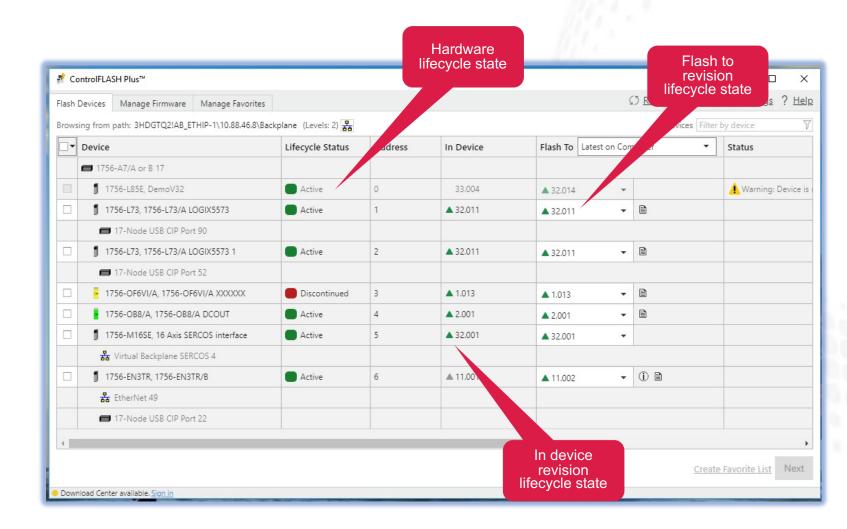




Firmware revisions and hardware lifecycle status

Improved lifecycle management

- Easily review lifecycle states for hardware and firmware on Flash Devices and Manage Firmware tabs
- Immediately identify devices that may require attention
- Refer to <u>PCDC</u> for legend describing states

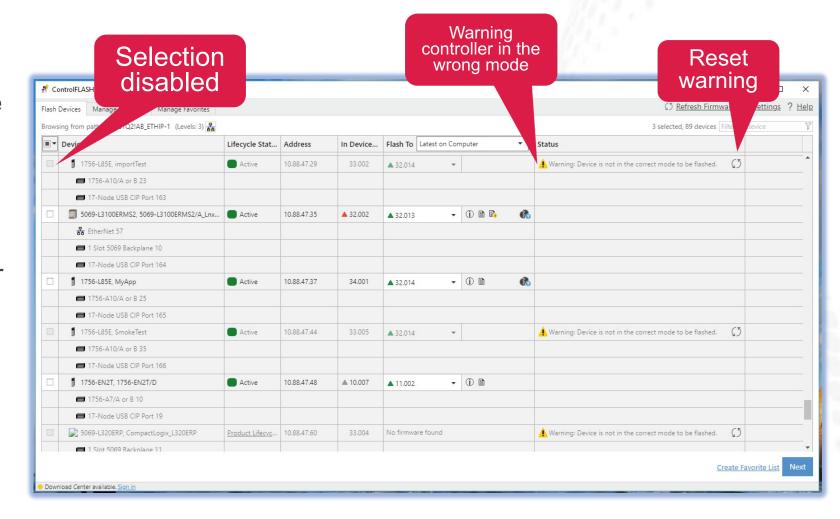




Automatic controller mode detection

Improved ease of use

- Automatic identification and reporting of Logix 5000 controllers in the wrong mode
 - Run mode and/or safetylocked
- User can set controller to the right mode and reset warning
 - Use controller keyswitch or programming software (Studio 5000 Logix Designer® application)
- Allows for the flash operation to succeed the first time
 - Previously, flash operation would be carried out and then fail

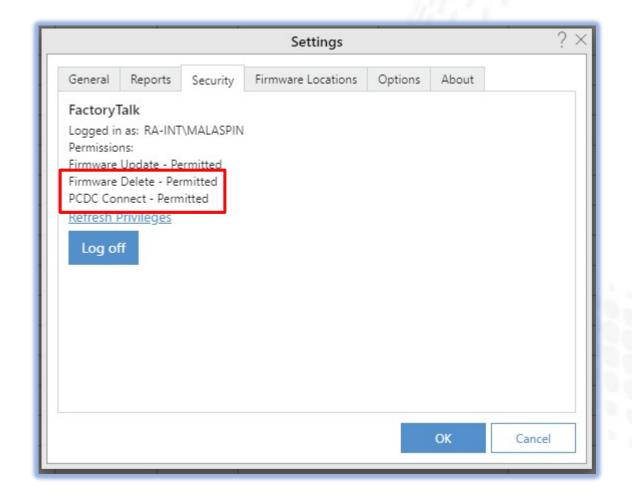




Extended security permissions

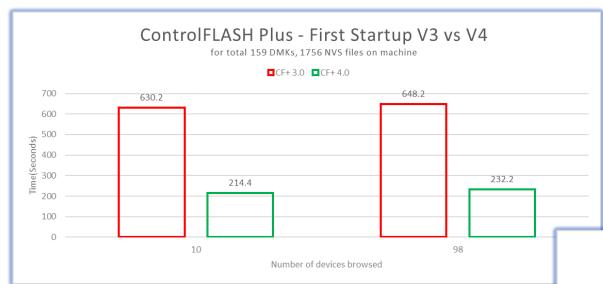
Improved security control

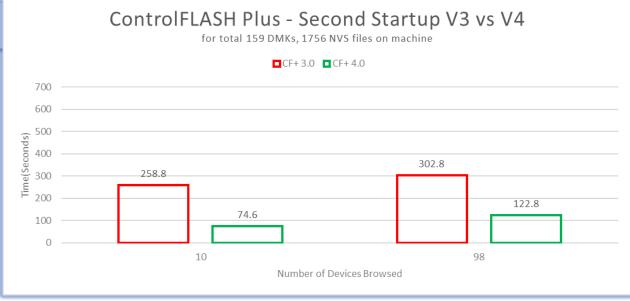
- Added capability to control permissions to:
 - Connect to PCDC
 - Delete firmware from ControlFLASH Plus user interface
- Requires FactoryTalk® Services Platform V6.20





Application startup and firmware inventory speed up







ControlFlash Plus Video





Summary

- The ControlFLASH Plus application provides for enhanced productivity, improved firmware lifecycle management and better usability
 - Single and multi-device update operations support improved productivity
 - Concurrent updating dramatically reduces updating time devices types and topology dictates number of devices updated concurrently
 - Product Compatibility Download Center (PCDC) connectivity allows for usability and productivity gains
 - Firmware revisions cross-compatibility checking reduces errors
 - Hardware and firmware revision lifecycle state integration provides for better application lifecycle management
 - User interface provides for better usability do more with fewer clicks
 - Favorite lists and reports support provide enhanced product's firmware lifecycle management
 - ControlFLASH Plus V4.00 works with FactoryTalk Linx and FactoryTalk Services Platform V6.20 and higher
- The ControlFLASH application will continue to be available, but is in maintenance mode
 - Both tools can coexist on the same personal computer and share the same set of firmware kits





expanding **human possibility**™

Thank you



www.rockwellautomation.com