Integrity Checking

Integrity Checks The integrity check feature in Unity Pro running on an authorized PC helps prevent Unity Pro files from being changed via a virus / malware through the Internet.

The integrity check feature concerns the following components:

- > DLLs
- Unity Pro hardware catalogue
- libset and object files of EFBs
- > DTMs

Unity Pro automatically performs an integrity check when you first open an application. Beyond the first check, Unity Pro will automatically run the integrity check periodically.

Last check I	has been performed :	Wennesuay, July 1	5, 2015 3:31:34 PM	ОК
Туре	Component		Current	
FFB-Library	.\FFBLibset\v10.0\U	nity984\U984_PCFL\	check ok	
FFB-Library	.\FFBLibset\v10.0\U	nity984\U984_PCFL\	check ok	
FFB-Library	.\FFBLibset\v10.0\U	nity984\U984_PCFL\	check ok	
FFB-Library	.\FFBLibset\v10.0\U	nity984\U984_PCFL\	check ok	
FFB-Library	.\FFBLibset\v10.0\U	nity984\U984_PCFL\	check ok	
FFB-Library	.\FFBLibset\v10.0\U	nity984\U984_PCFL\	check ok	
FFB-Library	.\FFBLibset\v10.0\U	nity984\U984_PCFL\	check ok	
FFB-Library	.\FFBLibset\v10.0\U	nity984\U984_PCFL\	check ok	
FFB-Library	.\FFBLibset\v10.0\U	nity984\U984_PCFL\	check ok	=
FFB-Library	.\FFBLibset\v10.0\U	nity984\U984_PCFL\	check ok	
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It is also possible to run the Integrity Check manually.

Exercise - Integrity Checks

Learning Outcomes By the completion of this exercise you will be able to:

> Complete a manual integrity check.

Open the Unity Pro Properties.

i. From the Help menu select About Unity Pro XL:

Help	
₹ <u>I</u> ndex	
<u>F</u> ind	
₩ <mark>₩</mark> hat's This?	Shift+F1
User Infor <u>m</u> atio	on
<u>A</u> bout Unity Pr	o XL

ii. Click the **Perform self-test** button from the Integrity check area of the dialog:

A	bout Unity Pro	XL		? X
	Unity Pro XL V10.0 - Copyright (c) 2003-2	- 150629B 2015 Schneider Electric Industri	es SAS	(FFF
	-Registration informa	ations		
	Company:	schneider electric		ОК
	Username:	arribe		Technical Support
	Serial Number:	12345678999		
	Registration:	Product is registered (pern	nanent).	Technical Info
	Warning			
This software is protected by copyright law and by international conventions. Any reproduction or distribution of the software in whole or in part, by any means is strictly prohibited.				
	Any person not respecting these provisions will be guilty of the offense of fraud and will be liable to penalties provided for by the law.			
	In case of cpu crash, power cycle only once and use as soon as possible the 'technical support' button in online mode.			
	Integrity check		Per	rform self-test
Schneider Electric				

iii. The **Perform Self-Test** window will display. The **Integrity Check** will commence and complete automatically:

Туре	Component	Current
FFB-Library	.\FFBLibset\v10.0\Unity984\U984_PCFL\	check ok

- iv. Scroll up the finished list and ensure that all entries have **check ok** for the **Current Status**.
- v. Click **OK** when finished with the **Self-Test** window.
- vi. Then click **OK** to close the **About** window.

Remove all Cyber Security & Passwords settings.

- i. Return to the Embedded Ethernet Port properties and open the **Security** tab and click the **Unlock Security** button.
- ii. Visit the **Application Settings** and **remove** the **Application Password** set in the earlier exercise.
- iii. **Build, Transfer, Run & Test** that the settings have **Cyber Security** and that the **Application Password** has been removed.
- iv. The exercise is now over click the link to go back to the <u>Chapter 2</u> <u>Organisation Chart</u> or to the <u>Table of Contents</u>.



Access Control

Introduction	Access control is a feature that allows the user to set which IP addresses are allow to communicate with the device (PLC or cyber secured NOC), communication from any other IP will be rejected by the device.
	In Unity Pro v11 this feature will be combined with the restriction of the features allowing IP addresses to communicate with device via specific protocols only.
How to enable it?	As with most of the M580 cyber security features, this feature is located in the Security tab of the M580. From there type in the list of authorised IP addresses, then enable access control and download the program to the PLC.
	Note: Be careful if you usually download the projects to the PLC via Ethernet cable to add the IP address of the computer in allowed IP addresses, and remember the PC IP address.
	If you usually transfer the project via other media, make sure that the service is

enabled before downloading the project to the PLC!