



ProcessLogix R510.0 Cumulative Update 1

This document describes the following:

- contents of this update
- installation of this update
- problems resolved in this update

IMPORTANT

- This update should be installed on all R510.0 Servers and Clients.
- If you have installed all updates listed in Contents of Update, below, it is not necessary to install this update. This is a cumulative update that includes all software installed with those individual updates.

Contents of Update

This update contains the following software:

- Microsoft Excel Report Update 1
- Redundant Server Name Fix
- Quick Builder Update 1
- Point Browsing Update 1
- OPC Update
- Documentation Update 1
- Microsoft Excel Data Exchange Update 1
- ProcessLogix Firmware Version Update 1
- Cumulative Engineering Tools Update 1
- Redundant Server Log Update

Before You Begin

Before beginning the installation, you must download the appropriate file to your ProcessLogix Server(s) and Client(s):

- ProcessLogix R510.0 Cumulative Update 1.exe

The following software components must be installed before you install this update:

- Windows 2000 Service Pack 3 or 4, or Windows XP
- Internet Explorer v6.0 or 6.0 SP1
- ProcessLogix R510.0

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Server Installation

You must complete this procedure on all Servers in your ProcessLogix system. Before beginning the installation, be certain that SERVERA is the Primary Server and the Servers are synchronized.

ATTENTION

All procedures listed in this section should be performed with the system(s) Off-Process. Be certain that your process is off control before you begin this procedure. This means the 1757-PLX52 should be in the Idle state.

Upload Control Strategies

You must export the ProcessLogix Engineering Repository Database and save the Fieldbus Device Definitions before proceeding. If it is necessary to save Fieldbus device values and CM block parameter values from the Monitor image, it is recommended to complete the following on a non-redundant Server or SERVERB only:

1. Upload with Contents of your Control Modules.
2. Update with contents (to Project), which will save the Monitor image to the Project image.

This procedure captures the latest configuration changes. Otherwise, after re-loading the CMs following the ProcessLogix upgrade, changed values would be lost.

Disable ERDB Replication

This procedure is only required for a redundant Server pair. Complete these steps on SERVERB only. If you have a non-redundant Server, skip to Export the Database Using Control Builder on page 4.

1. Logon to SERVERB as ps_user.
2. Click **Start** ⇒ **Programs** ⇒ **ProcessLogix Engineering Tools** ⇒ **DB Admin**.
3. Expand **DbAdmin**.
4. In the Login dialog box make these entries:
 - a. Enter >mngr< as the default User Name.
 - b. Enter the appropriate Password.
 - c. Enter >localhost< in the Server Name field.
 - d. Select **Classic Server Security** in the Domain Name drop-down list.
5. Expand **ProcessLogix Node**.
6. Click **Admin Tasks**.
7. Click **Disable Replication**.
8. Click **OK** at the Disabled Database Replication prompt.
9. Close **DbAdmin**.

Export the Database Using Control Builder

Complete these steps on a non-redundant Server or SERVERB.

1. If necessary, logon to the system as ps_user.
2. Using Windows Explorer, create the folder C:\Data\ExportDB.
3. Click **Start ⇒ Programs ⇒ ProcessLogix Engineering Tools ⇒ Control Builder**.
4. In the Login dialog box, make these entries:
 - a. Enter >mngr< as the User Name.
 - b. Enter the appropriate Password.
 - c. Enter >localhost< in the Server Name field.
 - d. Select **Classic Server Security** in the Domain Name drop-down list.
5. Click **OK**.
6. Click **File ⇒ Export**.
7. Click **Browse** to set the Directory to C:\Data\ExportDB.
8. Click **Select All**.

Depending on the size of your database, this step may take several minutes.

9. Click **Export**.

Depending on the size of your database, this step may take several minutes to several hours.

10. When completed, close the Export Window (if it did not automatically close).
11. Close Control Builder.

Save Fieldbus Device Definition Files

This procedure is required if migrating a system containing Fieldbus devices. Complete these steps on a non-redundant Server or SERVERB. If you do not have Fieldbus devices connected to your ProcessLogix system, skip to the next section, Install the Update.

1. Using Windows Explorer, create the folder C:\Data\FFdevices.
2. Click **Start** ⇒ **Run**.
3. Enter >cmd< and click **OK**.

A DOS window opens.

4. Enter >xcopy C:\Honeywell\TPS50\System\ER\FFdevices*.* C:\Data\FFdevices /E< and press <Enter>.
5. If prompted, enter >A< to specify all files and folders.
6. Enter >xcopy C:\Honeywell\TPS50\System\ER\Release*.* C:\Data\FFdevices /E< and press <Enter>.
7. If prompted, enter >A< to specify all files and folders.

Install the Update

You must complete this procedure on all Servers in your ProcessLogix system. If you have a redundant Server pair, you must complete the following procedure on SERVERB first, then repeat this section for SERVERA.

1. Exit all running ProcessLogix applications, such as Control Builder, Station, and Network Tools (NTOOLS).
2. Right-click the **My Computer** icon and select **Manage**.
3. Expand **Services and Applications**.
4. Select **Services**.

TIP

To stop a service:

If the service is present, right-click it and select **Stop**. If prompted, click **Yes** to also stop other services. If a service is already stopped, move on to the next one in the list below.

5. Stop these Services in the following order:
 - a. ProcessLogix Server Daemon (also stops ProcessLogix Server Operator Management and ProcessLogix Server System, if applicable)
 - b. ProcessLogix Server Database
 - c. ProcessLogix Server Desktop
 - d. ProcessLogix Server Logger
 - e. Windows Management Instrumentation
 - f. ProcessLogix Control Data Access Server
 - g. ProcessLogix System Repository
 - h. ProcessLogix ER Server
 - i. RSLinx
 - j. XLNet Daemon
 - k. MSSQLServer (also stops SQLServerAgent)

6. Close the Computer Management window.

7. Right-click the SQL Server Service Manager icon  in the task bar and select **Exit**.

The application closes.

8. Using Windows® Explorer, go to the directory where the update was downloaded, double-click **ProcessLogix R510.0 Cumulative Update 1.exe**.

9. The Update installation automatically starts.

10. The installed components window will appear when the first stage of installation is complete. Click **Ok** to continue.

11. Browse to C:\EngrToolsUpdate1 and double-click **Setup.exe**.

12. The installation automatically starts.

If at anytime during installation of the R510.0 update, you see a reference to R500.1, this is expected because R510.0 is a point release of R500.1.

13. At the Welcome window, click **Next**.

14. If necessary, choose Repair when prompted with installation options (this will appear if you have previously installed Control Builder Update 3 on your machine).

15. If necessary, confirm that no errors are shown in the DOS prompt and press any key to continue.

If errors are shown, correct the cause and run the C:\Honeywell\TPS50\System\ER\gui_pref_fix.bat file.

16. When the installation is complete, click **Finish**.
17. To install the Microsoft Excel Data Exchange Update continue with step 18. If you are not installing the Microsoft Excel Data Exchange Update, skip to step 27.
18. To verify that Macros security is set to Medium for installation, open Excel and complete the following:
 - a. Select **Tools** ⇒ **Macro** ⇒ **Security**.
 - b. Select the **Medium** radio button and click **OK** to save changes.
 - c. Close Excel.
19. To install the Microsoft Excel Data Exchange Update, click **Start** ⇒ **Programs** ⇒ **Control Panel** and double-click **Add/Remove Programs**.
20. Select **Microsoft Excel Data Exchange** and click **Remove**.
21. Click "Enable Macros" when prompted
22. Close Add/Remove Programs Window.
23. Browse to C:\ExcelDataExchange and double-click **Microsoft Excel Data Exchange.msi**.
24. Follow all installation prompts.
25. Click **Enable Macros** when prompted.
26. When installation is complete, click **Finish**.
27. Restart the PC.
28. Logon to the Server as ps_user.
29. If you have a non-redundant Server, skip to Initialize the Database on page 10. If you have a redundant Server pair, continue with step 30.
30. Click **Start** ⇒ **Run**.
31. Enter >cmd< and click **OK** to open the DOS window.

32. At the DOS prompt, enter >dt 68< and press <Enter>.
33. Right-click on the taskbar and select **Task Manager**.
34. Select the **Processes** tab.
35. Skip to step 36 if EventSDC.exe is not listed. Otherwise, select EventSDC.exe and click End Process.
36. Click **File** ⇒ **Exit** Task Manager.
37. Using Windows Explorer, browse to C:\RedundantSQL, and double-click **Redundant SQL Updates.exe**.

Installation begins automatically.

38. At the Installation Complete window, click **OK**.
39. At the DOS prompt, enter >ct 68 15 -efn evarch< and press <Enter>.
40. Right-click on the taskbar and select **Task Manager**.
41. Select the Processes tab.
42. Verify that evarch.exe is listed as a process under Image Name.
43. Continue with Synchronize the Servers.

Synchronize the Servers

This procedure is only required for a redundant Server pair.

1. Synchronize the redundant Servers:

- a. On the Primary Server, click **Start** ⇒ **Programs** ⇒ **ProcessLogix Server** ⇒ **Station**.
- b. Click **View** ⇒ **System Status** ⇒ **Server Redundancy**.
- c. Once the Backup Server Running LED turns green, click the Oper field in the lower right corner of the display.
- d. Enter >mngr< in the Station Logon dialog box and click **OK**.
- e. Click **Synchronize**.
- f. When the Synchronize Databases (Y/N) prompt appears, enter >Y< and press <Enter>. Depending on your configuration, this may take some time to complete.
- g. Wait for the synchronization to complete (Synchronization Complete prompt appears) and verify that the display shows simulated Green LED indications for the following states:

Primary Server

- Running

Backup Server

- Synchronized
- Running

Link Status

- Link 0 (LNK00) - **OK** Active link
- Link 1 (LNK01) - **OK** (Only applies if you are using a dual LAN)

2. Click **Manual Failover**.

3. At the Failover to Backup (y/n) prompt, enter >y< and press <Enter>.

4. Repeat all sections of Install the Update (page 5) on SERVERA.

5. After the update has been installed on both SERVERA and SERVERB, verify that SERVERA is now Primary and synchronize the Servers.

After redundant Servers have synchronized, continue with Initialize the Database.

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Initialize the Database

Complete these steps on a non-redundant Server or SERVERB.

1. Click **Start** ⇒ **Programs** ⇒ **ProcessLogix Engineering Tools** ⇒ **DB Admin**.
2. Click the + sign to expand DbAdmin.
3. In the Login dialog box make these entries:
 - a. Enter >mngr< as the default User Name.
 - b. Enter the appropriate Password.
 - c. Enter >localhost< in the Server Name field.
 - d. Select **Classic Server Security** in the Domain Name drop-down box.
4. Click the + sign to expand the ProcessLogix Node.
5. Click **Admin Tasks**.
6. Click **Initialize Database**.
7. Click **Yes** to continue.
8. Click **OK**.

Enable ERDB Replication

This procedure is only required for a redundant Server pair. Complete this procedure on SERVERB only after the Update has been applied to both Servers. If you have a non-redundant Server, skip to Import the Engineering Database on page 12.

1. Logon to SERVERB as ps_user.
2. Click **Start** ⇒ **Programs** ⇒ **ProcessLogix Engineering Tools** ⇒ **DB Admin**.
3. Expand **DbAdmin**.
4. In the Login dialog box, complete the following:
 - a. Enter >mngr< as the default User Name.
 - b. Enter the appropriate Password.
 - c. Enter >localhost< in the Server Name field.
 - d. If necessary, select **Classic Server Security** in the Domain Name drop-down list.
5. Expand **ProcessLogix Node**.
6. Click **Admin Tasks**.
7. Click **Recover Secondary Database**.
8. Click **OK** at the Secondary Database Recovered prompt.
9. Click **Enable Replication**.
10. Click **Yes** when prompted to proceed.
11. Click **OK** at the Enabled Database Replication prompt.
12. Close **DbAdmin**.

Import the Engineering Database

Complete the following steps to import the Engineering Database. For a redundant Server pair complete these steps on SERVERB only.

Add Saved Device Templates Using Fieldbus Library Manager

If you did not have Fieldbus devices connected to your ProcessLogix system, skip to Import the Database Using Control Builder on page 13.

1. Click **Start** ⇒ **Programs** ⇒ **ProcessLogix Engineering Tools** ⇒ **Fieldbus Library Manager**.
2. In the Login dialog box, complete the following:
 - a. Enter >mngr< as the default User Name.
 - b. Enter the appropriate password.
 - c. Choose **Classic Server Security** in the Domain Name drop-down box.
3. Click **OK**.
4. Click **File** ⇒ **Open Device**.
5. Browse to your FFDevices backup directory, select a device and click **OK**. For example: C:\Data\FFDevices
6. Click **File** ⇒ **Save** and click **OK**.
7. Click **File** ⇒ **Build Device Template** ⇒ **From Current Device**. Do not use the From Existing .DEF files option.
8. Click **OK** to confirm file addition.
9. Repeat steps 4–8 for each device stored in the FFDevices backup directory.

Import the Database Using Control Builder

1. Click **Start ⇒ Programs ⇒ ProcessLogix Engineering Tools ⇒ Control Builder**.
2. In the Login dialog box, complete the following:
 - a. Enter >mngr< as the default User Name.
 - b. Enter the appropriate Password.
 - c. Enter the appropriate Server name in the Server Name field.
 - d. Select **Classic Server Security** in the Domain Name drop down box.
3. Click **OK**.
4. Click **File ⇒ Import**.
5. Click **Browse** to set the import Directory Path to your ExportDB backup directory. For example: C:\R510BackupData\ExportDB.
6. Click **Select All**.

It is recommended that you do not import the examples. New examples are provided in the updated database.

7. Deselect the following Point Names: All CEEs, example_cascade, example_motor, example_pid, example_scm, pidloop.

To deselect an item, press and hold <Ctrl> and click each item.

8. Click **Import**.

Depending on the size of your database, this may take several minutes to several hours.

9. When completed, close the Import Window (if it did not automatically close).

Download Changes to the Controller(s)

All control strategies must be reloaded to the controller(s). Be sure that the controller is in the NODB state prior to download.

1. Remove the CPM from the chassis.
2. If necessary, remove the battery from the CPM.
3. Reconnect the battery and insert the CPM into the chassis.
4. Verify that controller LED says NODB.
5. Control strategies must now be reloaded via Control Builder.

IMPORTANT

When reloading control strategies to the CPM this error may be seen “Snapshot CPM01 does not match current ER” where CPM01 is the name of the CPM being downloaded. Click **Continue** to finish downloading the new database.

Refer to Knowledge Builder for details on loading a CPM.

At this point, the update is installed on your Server. You can now load the update on any Client machines in your system.

Client Installation

The following procedure can be used only on ProcessLogix Clients that already have R510.0 installed.

1. Using Windows Explorer, go to the directory where the update was downloaded, double-click **ProcessLogix R510.0 Cumulative Update 1.exe**.

The Update installation automatically starts.

The Installed Components window opens when the first stage of installation is complete.

2. Click **Ok** to continue.
3. If you are installing this update on an engineering workstation, continue with step 4. If you are installing this update on an operator workstation, skip to step 8.

4. Browse to C:\EngrToolsUpdate1 and double-click **Setup.exe**.

The installation restarts.

If at anytime, during installation of the R510.0 update, you see a reference to R500.1, this is expected because R510.0 is a point release of R500.1.

5. At the Welcome window, click **Next**.
6. If necessary, choose Repair when prompted with installation options (this will appear if you have previously installed Control Builder Update 3 on your machine).
7. When the installation is complete, click **Finish**.
8. To install the Microsoft Excel Data Exchange Update continue with step 9. If you are not installing the Microsoft Excel Data Exchange Update, skip to step 18.
9. To verify that Macros security is set to Medium for installation, open Excel and complete the following:
 - a. Select **Tools** ⇒ **Macro** ⇒ **Security**.
 - b. Select the **Medium** radio button and click **OK** to save changes.
 - c. Close Excel.
10. To install the Microsoft Excel Data Exchange Update, click **Start** ⇒ **Programs** ⇒ **Control Panel** and double-click **Add/Remove Programs**.
11. Select **Microsoft Excel Data Exchange** and click **Remove**.
12. Click "Enable Macros" when prompted.
13. Close Add/Remove Programs Window.
14. Browse to C:\ExcelDataExchange and double-click **Microsoft Excel Data Exchange.msi**.
15. Follow all installation prompts.
16. Click **Enable Macros** when prompted.

17. When installation is complete, click **Finish**.
18. Delete the C:\Honeywell\TPS50\System\ER\CLEAN_DATABASE folder. These files are not necessary on a client system.
19. Restart the PC.

Update Confirmation

To confirm that the update was properly installed on your system:

1. Using Windows Explorer, open the C:\Honeywell\TPS50\ProductVersion.txt file.

If the file contains the line "R500.1.1.8 patch installed.", the update was installed properly.
2. Click **Start** ⇒ **Programs** ⇒ **Process Engineering Tools** ⇒ **Control Builder**.
3. Click **Help** ⇒ **About Control Builder**.

If the splash screen indicates "Release PS500.1-01.16", the update installed properly.

Problems Resolved in this Update

This section lists problems resolved with this cumulative update.

Table 1 Problems Resolved in Cumulative Update 1

Update	ISR	Description
Microsoft Excel Report Update 1	N/A	Limits the number of excel.exe processes that can be started by the server when running excel reports from station.
Redundant Server Name Fix	46990	Event databases will not synch on a system with '-' in the computer name
Quick Builder Update 1	47714	Dynamic data display is slow because it is being blocked by device reads. This applies to systems with applications or algorithms that generate a high device read rate on SCADA channels.
	47687	abrslnx.exe goes into hard CPU loop when system is shut down. This has also been seen when failing over from the Primary to the Backup Server.
Point Browsing Update 1	N/A	When trying to use the point browse function in station, such as in configuring trends, points do not show up.
OPC Update	49341	Intermittent OPC Server failure.
Documentation Update 1	N/A	Various pages in Knowledge Builder contained outdated information.

Table 1 Problems Resolved in Cumulative Update 1

Update	ISR	Description
Excel Data Exchange Update 1	N/A	When 24hr average or 24hr snapshot data is imported into an Excel spreadsheet via Excel Data Exchange, the date of collection is the same for each piece of data. While the values should show the normal progression of time, they all will read the date that data was imported into Excel.
Firmware Version Update 1	N/A	The ver_rev.txt file that is released with ProcessLogix is too old to recognize newer firmware versions.
Cumulative Engineering Tools Update	4551	If a CM or SCM is uploaded the the Monitor tab, the control level SCANCTLLVL is reset to zero.
	1-EPQIS	Executing the Control Builder function "Upload" with "Upload Server Configuration Information" was failing at random with multiple errors along with the Control Builder either hanging or crashing.
	1-A6G6R	A copy operation performed on a CM created with a function block and an Active-X textline followed by a Paste operation into another CM results in the Control Builder crashing.
	1-EL439	With Basic VCS enabled, the Version number erroneously increments on load or delete of objects. It should not unless s a change has occurred.
	N/A	Signed word analog data type did not display negative values correctly. They appeared as high positive values.
	N/A	Bit_24 on the 32BITS2DWORD and the DWORD2BITS32 function blocks was not operating correctly. Bit_24 would not be set on when appropriate.
	N/A	Using the Dword analog data type sometimes caused a loss of control. Dword data type is no longer available.
	N/A	When the DNET_DEVICE IOM was not associated with the correct DNET_IM IOM, a loss of control could be experienced.
	N/A	Data using the Word analog data type did not appear correctly in Control Builder.
	N/A	Incorrect captions in DNET_DEVICE, DNET_INCHAN, and DNET_OUTCHAN block configuration pages said "Word offset" when referring to Double words{.
N/A	When scaling was used, the zero input value was not displayed correctly. A very small negative value was shown (-5*10E-15 for example).	
Redundant Server Log Update	45730	Nuisance errors in the primary server logs of a redundant server pair reading "Server not backup. Stopping Update job" were appearing as often as once a minute.
IB32/B Firmware Update	N/A	Correct 3.5 firmware for the 1756-IB32/B module was not present on R510 systems

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