



# ProcessLogix R510.0 DeviceNet Update 5

Catalog Number 1757-PLX52

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**IMPORTANT**

- Install this update on all R510.0 Servers.
  - You must first install R510.0 and R510.0 Cumulative Update 1 before installation of R510.0 DeviceNet Update 5.
  - You do not need to install R510.0 ERDB Update 1, R510.0 ERDB Update 2, R510.0 ERDB Update 3, or R510.0 DeviceNet Update 4 before installation of R510.0 DeviceNet Update 5. R510.0 DeviceNet Update 5 supersedes these previously released updates.
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## Contents of Update

This update contains the following software:

- R510.0 ERDB Update 1
- R510.0 ERDB Update 2
- R510.0 ERDB Update 3
- R510.0 DeviceNet Update 4
- New DeviceNet fixes

## Before You Begin

Before beginning the installation, download **ProcessLogix R510.0 DeviceNet Update 5.exe** to your ProcessLogix Servers.

## Required System Components

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

- Windows 2000 Service Pack 3 or 4
- Internet Explorer, version 6.0 or 6.0 SP1
- ProcessLogix R510.0
- Control Builder, version PS500.1.-01.16

## Corrected Anomalies

This table lists anomalies corrected in this update.

Anomaly #	Description
Lgx00063449	Unable to IDLE 1756-DNB under loss of CPM power or CNET

This table lists anomalies corrected in previous updates

Anomaly #	Description
N/A	DWORD2BITS32 function block output BIT_24 did not reflect change of state properly.
N/A	Help buttons on configuration tab of some AB_Logic library function blocks did not navigate to pages in Knowledge Builder correctly.
N/A	Information was missing from Knowledge Builder pages for AB_Logic blocks.
1574	Signed word analog data type in the dnet_inchan block was not correctly displaying negative values.
N/A	After installing ERDB Update 1 on a system with Control Builder Update 3 installed, multiple errors were produced in Control Builder and Station.
1481	Offsets of more than 243 bytes could not be entered in DeviceNet inchan or outchan function block settings.
1-NVSMH	DeviceNet INCHAN and OUTCHAN function blocks do not properly reflect BADINPUTSTATUS upon device or DeviceNet scanner failure.
1-YBRL3	CPM fails after deleting I/O modules from monitoring tab after migration.
Lgx00061715	1756-DNB state dependency on 1757-PLX52 CEE state.

# AB Spares

## Install the Server Update

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.

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**ATTENTION**

All procedures listed in this section should be performed with the systems off-process. Be certain that your process is off control before you begin this procedure. This means the 1757-PLX52 controller should be in the Idle state.

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## 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, we recommend completing the following on a non-redundant Server or SERVERB only:

1. Upload with Contents of your Control Modules.
2. Update with contents (to Project).

This saves 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 required only for a redundant Server pair. Complete these steps on SERVERB only.

If you have a non-redundant Server, skip to Export the Database by Using Control Builder on page 5.

1. Log on to SERVERB as `ps_user`.
2. Click Start > Programs > ProcessLogix Engineering Tools > DB Admin.
3. Expand DbAdmin.
4. Make the following entries in the Login dialog:
  - a. Type *mng*r as the default User Name.
  - b. Type the appropriate password.
  - c. Type *localhost* in the Server Name field.
  - d. Select Classic Server Security in the Domain Name pull-down list.
5. Expand the 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 by Using Control Builder

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

1. Log on to the system as `ps_user`, if necessary.
2. Create the folder `C:\Data\ExportDB` by using Windows Explorer.
3. Click Start > Programs > ProcessLogix Engineering Tools > Control Builder.

4. Make the following entries in the Login dialog:
  - a. Type *mng*r as the User Name.
  - b. Type the appropriate password.
  - c. Type *localhost* in the Server Name field.
  - d. Select Classic Server Security in the Domain Name pull-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 dialog (if it did not automatically close).

11. Close Control Builder.

## Save Fieldbus Device Definition Files

Complete this procedure if you are migrating a system containing Fieldbus devices. Complete these steps on a non-redundant Server or SERVERB only.

If you do not have Fieldbus devices connected to your ProcessLogix system, skip to Install the Update on page 7.

1. Create the folder C:\Data\FFdevices by using Windows Explorer.
2. Click Start > Run.
3. Type *cmd* and click OK.

A DOS window opens.

4. Type *xcopy C:\Honeywell\TPS50\System\ER\FFdevices\\*.\* C:\Data\FFdevices /E* and press Enter.

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

## 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. Close all ProcessLogix applications.
2. Double-click ProcessLogix R510.0 DeviceNet Update 5.exe.
3. Click Setup.

During the update, the existing ps\_erdb\_clean.bak is moved to a backup folder and renamed to ps\_erdb\_clean.bak.pre\_00063449. The updated ps\_erdb\_clean.bak is copied to  
C:\Honeywell\TPS50\System\ER\CLEAN\_DATABASE.

4. Click OK at the Installation Complete dialog.

If you have a non-redundant Server, skip to Initialize the Database on page 9. If you have a redundant Server pair, continue with Verify that Servers Are Synchronized.

### *Verify that Servers Are Synchronized*

This procedure is required only for a redundant Server pair.

1. Verify that Servers are synchronized.
  - a. On the Primary Server, click Start > Programs > ProcessLogix Server > Station.
  - b. Click View > System Status > Server Redundancy.

c. Verify that the display shows green LEDs 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.** Skip to step 3 if all LED indicators are green.

Follow these steps to synchronize the Servers if the Backup Server Synchronized LED indicator is red:

- Verify the Backup Server Running LED indicator is green.
- Click the Oper field in the lower-right corner of the display.
- Type *mng*r in the Station Logon dialog and click OK.
- Click Synchronize.
- Type Y and press Enter when the Synchronize Databases (Y/N) prompt appears.

Depending on your configuration, this may take some time to complete.

- Wait for the synchronization to complete (Synchronization Complete prompt appears) and verify that the display shows green LED indicators 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)

**3.** Repeat all sections of the Install the Update procedure on SERVERA.

See Install the Update on page 7.

**4.** Verify that SERVERA is now Primary and the Servers are synchronized after the update has been installed on both SERVERA and SERVERB.



## Initialize the Database

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

1. Click Start > Programs > ProcessLogix Engineering Tools > DB Admin.
2. Expand DbAdmin.
3. Make the following entries in the Login dialog:
  - a. Type *mng*r as the default User Name.
  - b. Type the appropriate password.
  - c. Type *localhost* in the Server Name field.
  - d. Select Classic Server Security in the Domain Name pull-down list, if necessary.
4. Expand the ProcessLogix node.
5. Click Admin Tasks.
6. Click Initialize Database.
7. Click Yes to continue.
8. Click OK.
9. Close DbAdmin.

## Enable ERDB Replication

Complete this procedure only on 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 11.

1. Log on to SERVERB as `ps_user`.
2. Click Start > Programs > ProcessLogix Engineering Tools > DB Admin.
3. Expand DbAdmin.
4. Make the following entries in the Login dialog:
  - a. Type `mng` as the default User Name.
  - b. Type the appropriate password.
  - c. Type `localhost` in the Server Name field.
  - d. Select Classic Server Security in the Domain Name pull-down list, if necessary.
5. Expand the 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 by Using Fieldbus Library Manager*

If you do not have Fieldbus devices connected to your ProcessLogix system, skip to Import the Database by Using Control Builder on page 12.

1. Click Start > Programs > ProcessLogix Engineering Tools > Fieldbus Library Manager.
2. Make the following entries in the Login dialog:
  - a. Type *mng*r as the default User Name.
  - b. Type the appropriate password.
  - c. Select Classic Server Security from the Domain Name pull-down list.
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 through 8 for each device stored in the FFDevices backup directory.

### *Import the Database by Using Control Builder*

1. Click Start > Programs > ProcessLogix Engineering Tools > Control Builder.
2. Make the following entries in the Login dialog:
  - a. Type *mng*r as the default User Name.
  - b. Type the appropriate password.
  - c. Type the appropriate Server name in the Server Name field.
  - d. Select Classic Server Security in the Domain Name pull-down list.
3. Click OK.
4. Click File > Import.
5. Click Browse to set the import Directory Path to your ExportDB backup directory.

For example: C:\Data\ExportDB.

6. Click Select All.

We recommend 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.

**TIP**

To deselect items, 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. Close the Import Window (if it did not automatically close) when the import is complete.

## Download Changes to the Controllers

All control strategies must be reloaded to the controllers. Verify that the controller is in the NODB state prior to download. If the controller is not in the NODB state, complete the following steps:

1. Remove the controller from the chassis.
2. Remove the battery from the controller.
3. Reconnect the battery and insert the controller into the chassis.
4. Verify that controller LED indicator displays NODB.
5. Control strategies must now be reloaded via Control Builder.

Refer to Knowledge Builder for details on loading a controller.

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**IMPORTANT**

When reloading control strategies to the CPM, you may see an error stating that the 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.

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At this point, the update is installed on your Server.

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