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EXPERION PKS

RELEASE 511.1

Software Change Notice

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CHAPTER

1

ABOUT THIS DOCUMENT

This Software Change Notice contains information for all the users of Experion R511.1. This SCN must be read prior to installing and managing the system. The document describes the new features and enhancements introduced with the R511.1 release. Additionally, it contains resolved PARs, issues, special considerations, and last minute documentation updates.

1.1   Revision history

Revision	Date	Description
A	June 2019	Initial release of the document.
B	July 2019	Updated "Known Issues" section in the document.
C	August 2019	Updated "Known Issues" section in the document.
D	September 2019	Updated "Problems Resolved " section in the document. Updated "Known Issues" section for the PAR 1–AYVGE5U.
E	October 2019	Updated "Problems Resolved " section in the document.

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CHAPTER

2

INTRODUCTION

The Experion Process Knowledge System provides a single, integrated platform encompassing continuous and batch control, safety, security, electrical, SCADA, and asset management. Experion introduces new features and enhancements that improve security, reliability, and performance.

Following are some of the new features and enhancements:

- Experion Batch Enhancements
- UOC Features and Enhancements
- Experion Reports
- Experion OPC UA Server
- Experion Connector for Movilizer
- Experion User Assistance
- Hardware Nodes Diagnostic Collection via DCT
- MeterSuite- Algorithm Updates
- SCADA Enhancements
- UIS Enhancements
- Experion Local Control Network (ELCN)
- Security Hardening of Windows Operating System
- Experion Software Installation Enhancements
- System Inventory Tool

2.1 Check for updates on Honeywell Process Solutions website

The Honeywell Process Solutions website, http://www.honeywellprocess.com contains the most up-to-date software updates, documentation, and recommended antivirus updates. You can find the latest version of this SCN on Honeywell Process Solutions website.

2.1.1 To access the Honeywell Process Solutions website

1. In a web browser, type the following URL.

   https://www.honeywellprocess.com/support

   The **SUPPORT** page appears, and the **Search Knowledge Base** tab is selected by default.

2. Select **Click Here to Login** in the top-right corner of the page.

   The home page appears.

3. If you are a new user, register at this website. Click **Register**, and follow the on-screen

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instructions.

4. If you are already registered, type your **Account Login** user name and password, and click **Login**.

   Your account name appears in the top-right of the page.

2.1.2 To download documents, security updates, or antivirus notifications

1. Click **Latest Documentation** as shown in the following image.
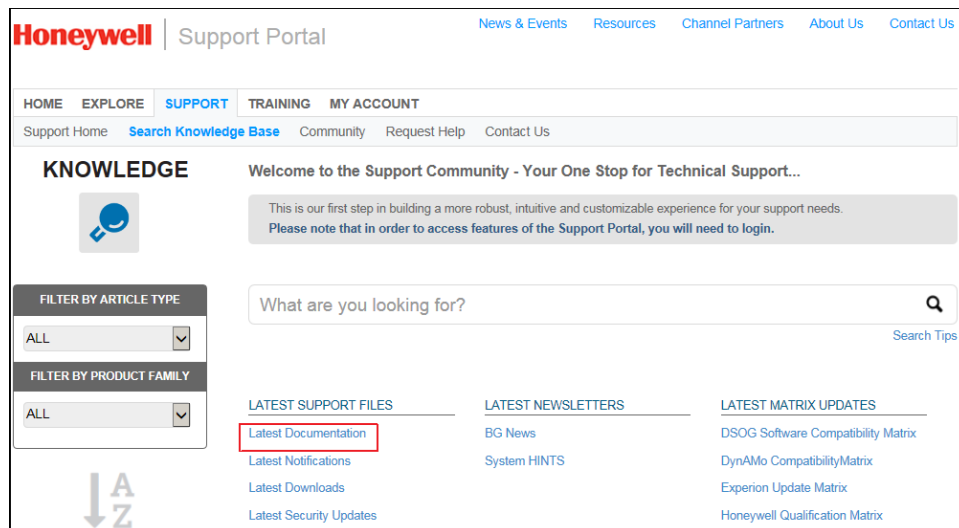
   The **All Support Documentation** page appears as a new page.

2. In the **Search** box, type the name of the required document, security update, or antivirus notification.

   For example, to download an SCN, type **Experion PKS General Release Software Change Notice** or **Experion PKS Support Media Software Change Notice** in the **Search** box.

3. Click **Search**.

   The **All Support Search Results** page appears with the search results.

4. In the left pane, use the **Search Result Filters** to further filter the document, security update, or antivirus notification. For example, if you are locating a Software Change Notice:

    a. Under **Document Type**, click **Software Change Notice**.

    b. Under **Product Release**, click the required Experion product release.
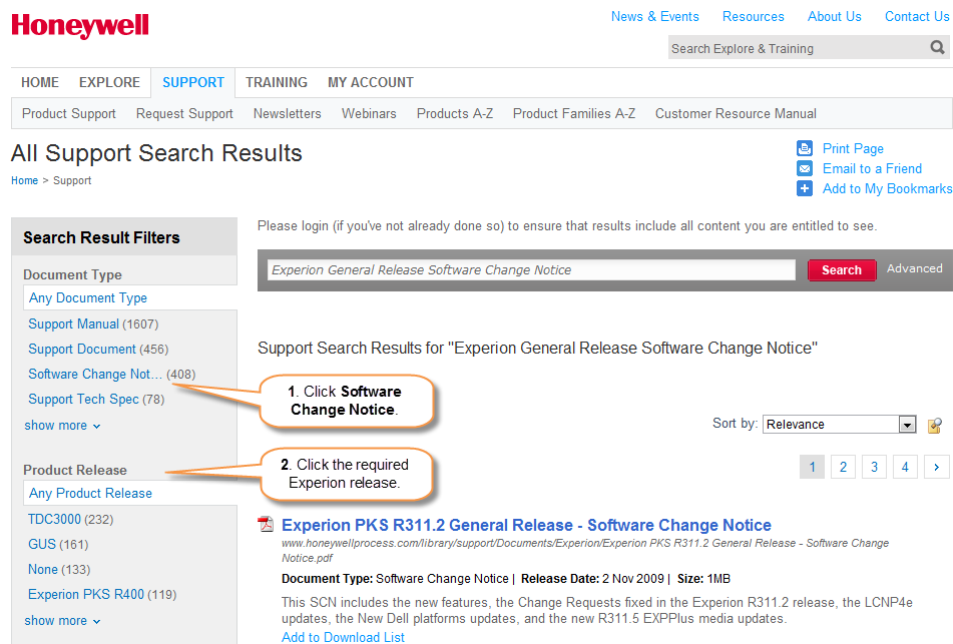
5. Click the document, security update, or antivirus notification link to open it.

2.1.3   To download the Knowledge Base Articles

1. Go to Honeywell Process Solutions website (www.honeywellprocess.com).

2. Login using the required credentials.

3. Click **SUPPORT** tab.

4. Click **RECENTLY PUBLISHED** tab for the latest articles.

5. Click on the Article ID to view and download the article.

6. To download the older articles, type the keyword of the required article and press **Enter**.

7. Click on the article name to view and download the article.

2.2   Who must read this document?

The information in this the guide is useful if you are planning to install, migrate, or configure the Experion R511.1 system. See this guide to understand the overall product, release interoperabilities, system dependencies, problem resolutions, known issues, and special considerations. This SCNs must be readily available for reference at any stage of Experion R511.1 system setup.

2.3   Change impact

- Control change impact
- Operational change impact
- Infrastructural change impact

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2.3.1 Control change impact

Not applicable.

2.3.2 Operational change impact

PAR 1-AT809JZ

Description

In Experion R511, the optional Experion Application Server (EAS) package "Application Framework" is retired. The ACM point server uses the components installed by this package. Therefore, the ACM point server is not supported for Experion R511 and later releases.

> **NOTE** : ACM and Dynamo are supported on the Experion Application Server.

Impact

Customers who use the ACM point server must install an Experion R510 or earlier release Experion Application Server.

PAR 1-ABFKXRP

Description

The Experion R511 ODBC client is unable to query prior release Experion servers unless they include an update that addresses PAR 1-ABFKXRP.

The following point releases/patches include this update:

- R430.6 Server Patch 3
- R431.5 Server Patch 3
- R432.2 Server Patch 5
- R500.2 Server Patch 7
- R501.4
- R510.2

Impact

Interoperability

PAR 1-AXMDM29

Description

In Experion R511, this PAR changes the Unit Timeline's behaviour so that the Unit Lane, Now Card and Station Delay indicator are strictly constrained to batches that have acquired units.

Impact

Each unit lane will show only phases and recipe elements that are part of the batch that acquired the lane.

Batch Unit Timeline Changes

Description

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In addition to Experion Batch enhancements described in the 'New features and enhancements' section, some existing Unit Timeline behaviours have changed in R511.1 and may require changes to engineering for ideal presentation to operators:

- Setting the 'Procedural Level' parameter to 'Phase' for all phases in Control Builder is now mandatory for correct presentation in Unit Timeline.

- The unit name shown on Timeline Unit Cards is now the Asset Item Name instead of the Asset Tag Name.

Impact

- Some Sequential Control Modules (SCMs) that appeared in Timeline Now Cards in prior releases may no longer be visible if the 'Procedural Level' is not correct.

- The name on Timeline Unit Cards may appear differently if the Asset Item Name is different to the Asset Tag Name. The Asset Item Name for batch units should be updated and loaded to servers if it is not desirable for operators.

2.3.3 Infrastructural change impact

Not applicable.

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3

CONTENTS OF THIS RELEASE

- <u>Contents of R511.1.software media kit</u>
- <u> Experion User Assistance</u>

3.1   Contents of Experion R511.1 software media kit

The **Experion R511.1 software media kit (EP-PKS511)** consists of following two DVD kits and Experion Read Me First Instructions.

- **Experion R511 Multi DVD Kit-1 (Part number 51156634)**
- **Experion R511 Multi DVD Kit-2 (Part number 51156635)**
- **Experion Read Me First Instructions (Part Number 51154497)**

In addition to the media kit, Experion PKS R511.1 also provides users with the ability to receive the release via electronic download (EP-PKS511-ESD). Note that this is the default method for receiving the release when ordering. In addition to the standard Experion media kits, the electronic download includes Virtual UOC and Virtual ELCN Appliances as follows.

- Experion PKS R511-ESD – Electronic Download of Experion PKS R511 (EP-PKS511)
    - Virtual UOC, supports both 50ms and 500ms (Part number 51156641)
    - Virtual ELCN (Part number 51156672)

3.2   Experion User Assistance

Prior to Experion PKSR511, the Experion documentation was packaged in two PDF collections: the *System* Documentation and the *Installation and Migration* documentation.

In R511, the User Assistance, a browser-based documentation interface, replaces the PDF Collections to enhance the user experience on PCs and smart devices, such as tablets.

The User Assistance:

- Is automatically installed as part of the Installation Package, unlike the PDF collections that needs to be selected during installation. It can also be installed manually on non-Experion nodes.
- Opens in a default web browser with the file access protocol, instead of the HTTP protocol.
- Merges the contents of the System Documentation and SCN, Installation and Migration PDF collections into one centralized site.
- Lists the new features of the current release on the home page.
- Provides filtered searching to enable more targeted searching.
- Includes a set of sample videos that will be added to in future releases.

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- Lists the 20 most popular guides as reported by a cross-section of customers.

- Can be integrated as a SafeView object in multi-window Station, enabling you to control its characteristics.

- Can be invoked in a dedicated browser window from within most of the Engineering tools.

The User Assistance can be viewed on any browser that supports HTML5.

3.2.1   Accessing the User Assistance

1. From the Start menu, navigate to **Honeywell Experion > Experion User Assistance**. The User Assistance appears.
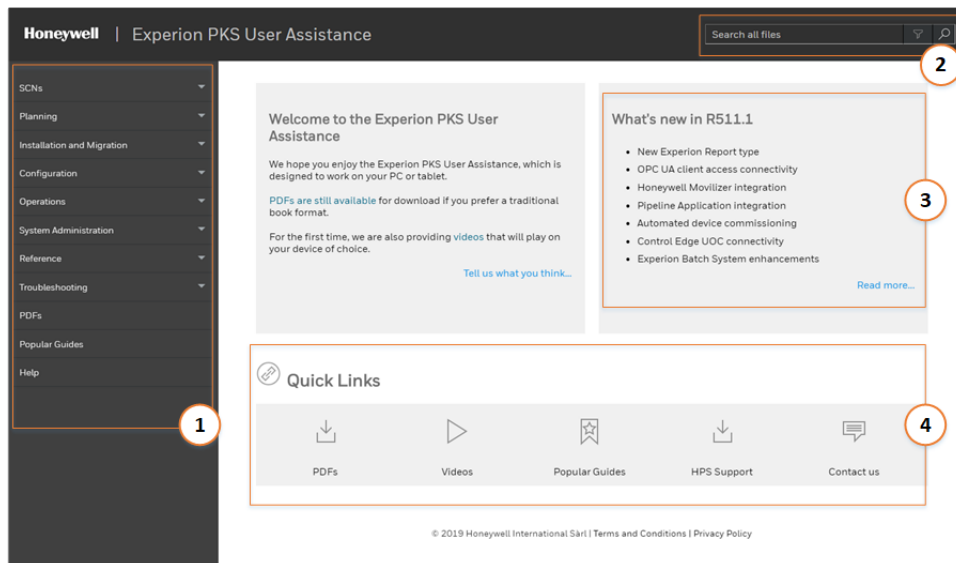
Item	Description
1	*Navigation Pane:* Lists of documents organized by task category.
2	*Search Field:* Enter words or phrases and select the **Filter** icon to minimize your search results to one of the available task categories. Click **Help** in the Navigation Pane for more tips on searching.
3	*What's new:* Lists new features for this release, and provides links to more information about each.
4	*Quick Links:* Easy access to PDF versions of the documents, sample Videos, the most often used guides, the Support page on Honeywell Process.com, and Contact methods for providing feedback or suggestions about this User Assistance.

3.2.2   Contents of Experion R511.1 User Assistance

The following table lists the Experion user documentation contained in the User Assistance.

Document name	Document ID
ABB TotalFlow Interface Reference	EPDOC-X340-en-511A
Allen–Bradley Drive Interface through ControlNet Reference	EPDOC-XXX2-en-511A
Allen–Bradley Interface Reference	EPDOC-XXX3-en-511A
Application Control Environment Rapid Restart Solution Guide	EPDOC-X405-en-511A
Application Control Environment Rapid Restart Upgrade Tool User's Guide	EPDOC-X404-en-511A
Application Control Environment User's Guide	EPDOC-XXX4-en-511A
Application Development Guide	EPDOC-XXX5-en-511A
ASEA Interface Reference	EPDOC-XXX6-en-511A
Bristol Babcock Interface Reference	EPDOC-XXX8-en-511A
Bristol Babcock OpenBSI Interface Reference	EPDOC-XXX9-en-511A
C200/C200E Troubleshooting and Maintenance Guide	EPDOC-XX10-en-511A
C300 Controller User's Guide	EPDOC-XX11-en-511A
CL Server User's Guide	EPDOC-XX12-en-511A
Configuration Studio Overview Guide	EPDOC-X113-en-511A
Configuration Utility User's Guide	EPDOC-XX14-en-511A
Control Builder Components Reference	EPDOC-XX15-en-511A
Control Builder Components Theory	EPDOC-XX16-en-511A
Control Builder Error Codes Reference	EPDOC-XX17-en-511A

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Document name	Document ID
Control Builder Parameter Reference	EPDOC–XX18–en–511A
Control Building User's Guide	EPDOC–XX19–en–511A
Control Component Library Reference	EPDOC–X152–en–511A
ControlEdge PLC Interface Reference	EPDOC–X467–en–511A
ControlEdge RTU Interface Reference *(New)*	EPDOC–X542–en–511A
ControlEdge 900 Hardware Planning and Installation Guide *(New)*	HWDOC–X430–en–H
Control Firewall User's Guide	EPDOC–XX20–en–511A
Control Hardware Installation Guide	EPDOC–XX21–en–511A
Control Hardware Planning Guide	EPDOC–XX23–en–511A
Controller Hardware Notifications Theory	EPDOC–XX22–en–511A
ControlNet Fiber Optic Implementation Guide	EPDOC–XX24–en–511A
ControlNet Installation Guide	EPDOC–XX25–en–511A
Custom Algorithm Block and Custom Data Block User's Guide	EPDOC–XX26–en–511A
DELL OPTIPLEX XE2 Planning Installation and Service Guide	HWDOC–X526–en–C
DeviceNet Interface Implementation Guide	EPDOC–XX27–en–511A
Diagnostic Studio User's Guide	ESDOC–XX28–en–2401A
Dictionary	EPDOC–XX29–en–511A
DNP3 Interface Reference	EPDOC–XX31–en–511A

Document name	Document ID
Engineering Data Builder User's Guide	EPDOC–X417–en–511A
Enron Modbus Interface Reference	EPDOC–X233–en–511A
Enterprise Model Builder User's Guide	EPDOC–XX32–en–511A
Ethernet Interface Module Hardware and Common Platform User's Guide	EPDOC–X406–en–511A
Ethernet Interface Module with IEC 61850 User's Guide	EPDOC–X462–en–511A
Ethernet IP User's Guide	EPDOC–X399–en–511A
ETN Quick Start Guide	EPDOC–X329–en–511A
Experion Cluster Communication for ACE Interface Reference	EPDOC–XX13–en–511A
Experion LCN Overview and Implementation Guide	EPDOC–X478–en–511A
Experion LCN Planning, Installation, and Service Guide	HWDOC–X479–en–E
Experion LCN Quick Start Guide	EPDOC–X480–en–511A
Experion Legacy I/O Link Module Parameter Reference Dictionary	EPDOC–X151–en–500
Experion Network Best Practices	WP–07–02–ENG
Experion Node Configuration Tool User's Guide	EPDOC–X427–en–511A
EXTIO 2 Remote Peripheral Solutions Installation Instructions	EP-DPCX24
Fault Tolerant Ethernet Bridge Implementation Guide	EPDOC–XX35–en–511A
Fault Tolerant Ethernet Installation and Service Guide	EPDOC–XX36–en–511A
Fault Tolerant Ethernet Overview and Implementation Guide	EPDOC–XX37–en–511A
Fault Tolerant Ethernet Status Server and Auxiliary Display	EPDOC–XX38–en–

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Document name	Document ID
User's Guide	511A
Fisher ROC Interface Reference	EPDOC–X341–en–511A
FMC 722 on ACE Configuration Guide	EPDOC–X332–en–511A
FMC 722 on ACE Parameter Reference	EPDOC X333–en–511A
GE Fanuc Series 90 Interface Reference	EPDOC–XX39–en–511A
GEC GEM80 Interface Reference	EPDOC–XX40–en–511A
Getting Started with Experion Software Guide	EPDOC–X112–en–511A
Guidelines for Replacing Hiway Boxes with LCN-connected C300 Emulations	EPDOC–X268–en–511A
GUS Basic Script User's Guide	EPDOC–XX41–en–511A
GUS Basic Scripting Language Reference	EPDOC–XX42–en–511A
GUS Display Authoring Tutorial	EPDOC–XX43–en–511A
GUS Display Builder User's Guide	EPDOC–XX44–en–511A
GUS Display Scripting User's Guide	EPDOC–XX45–en–511A
GUS Display Search Tool User's Guide	EPDOC–XX46–en–511A
GUS Display Translator User's Guide	EPDOC–XX47–en–511A
GUS Faceplate, Alarm, and Message Scripting User's Guide	EPDOC–XX48–en–511A
GUS Remote Display User's Guide	EPDOC–XX49–en–511A
Hardware and Point Build Reference	EPDOC–XX50–en–511A
HART I/O Implementation Guide	EPDOC–XX51–en–

Document name	Document ID
	511A
HART Point Parameter Access User's Guide	EPDOC–X516–en–511A
HCI/OPC Data Access User's Guide	EPDOC–XX52–en–511A
High Availability Seamless Redundancy User's Guide	EPDOC–X474–en–511A
Hitachi Interface Reference	EPDOC–XX53–en–511A
Hiway Slot Emulation Creator User Guide	EPDOC–X267–en–500
HMIWeb Display Building Guide	EPDOC–XX54–en–511A
HMIWeb Object Specification	EPDOC–X174–en–511A
HMIWeb Solution Pack Operator and Alarm Philosophy	EPDOC–X173–en–511A
Honeywell DPR Interface Reference	EPDOC–XX55–en–511A
Honeywell FSC Integration Reference	EPDOC–XX56–en–511A
Honeywell Icon Series Console Planning, Installation, Service Guide	EP–DCNXX4–511A
Honeywell Icon Series Console Read Me First	EP–DCNXX3
Honeywell LCS620 Interface Reference	EPDOC–XX57–en–511A
Honeywell Modbus TCP Firewall User's Guide	EPDOC–X162–en–511A
Honeywell Series 9000 Integration Reference	EPDOC–XX60–en–511A
Honeywell TDC 3000 Data Hiway Interface Reference	EPDOC–XX61–en–511A
Honeywell Turbine Control Solution Parameter Reference	EPDOC–XX62–en–511A
Honeywell UDC Integration Reference	EPDOC–XX63–en–511A

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Document name	Document ID
Honeywell Universal Modbus Interface Reference	EPDOC–XX64–en–511A
HP ProLiant DL360P Gen8 Honeywell Server Planning, Installation, and Service Guide	HWDOC–X330–en
HPE ProLiant DL360P Gen9 Honeywell Server Planning, Installation, and Service Guide *(New)*	HWDOC–X528–en–A
HPE ProLiant DL360P Gen9 Server Upgrade Kit Instruction *(New)*	51195915–417–A
IEC 61850 Client Interface SCADA Configuration Guide	EPDOC–X412–en–511A
IEC 60870 SCADA Configuration Reference Guide	EPDOC–X358–en–511A
IEC 60870 SCADA Parameter Reference Guide	EPDOC–X376–en–511A
IEC 61850 SCADA Configuration Guide	EPDOC–X375–en–511A
Integrated Experion–TPS User's Guide	EPDOC–XX66–en–511A
IO Network and Security Planning Guide *(New)*	EPDOC–X586–en–511A
LCNP Status User Guide	EPDOC–XX67–en–511A
LLMUX2 TC and RTD FTAs User Guide	EPDOC–XX68–en–511A
MasterLogic Experion Integration User's Guide	EPDOC–X365–en–511A
MeterSuite Configuration Guide	MSDOC–X307–en–200A
MeterSuite User's Guide	MSDOC–X308–en–200A
METTLER TOLEDO Integration Reference	EPDOCXX69–en–511A
ML200 CPU and SoftMaster User's Guide	EPDOC–X367–en–511A
ML200 Installation and Commissioning Guide	EPDOC–X366–en–511A

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Document name	Document ID
Modbus Interface Reference	EPDOC-XX71-en-511A
Moore Mycro Interface Reference	EPDOC-XX73-en-511A
Native Windows User's Guide	EPDOC-XX74-en-511A
Network and Security Planning Guide	EPDOC-XX75-en-511A
OEP IKB and Touch Screen Device Adapters Installation Instructions	EP-DPCXX3
Omni Interface Reference	EPDOC-XX77-en-511A
OPC Client Interface Reference	EPDOC-XX78-en-511A
OPC UA Client Interface Reference *(New)*	EPDOC-X523-en-511A
OPC Gateway for ACE Interface Reference	EPDOC-XX79-en-511A
Operator's Guide	EPDOC-XX80-en-511A
Operator Touch Panel Installation, Configuration, and Operation Guide	EPDOC-X356-en-511A
Operational Application Suite Configuration Guide	EPDOC-X264-en-511A
Operational Application Suite User's Guide	EPDOC-X265-en-511A
Orion Console Configuration Guide	EPDOC-X343-en-B
Orion Console Installation Guide	EPDOC-X313-en-B
Orion Console Read Me First	EPDOC-X312-en-B
Parallel Operation Keyboard User's Guide	EPDOC-XX82-en-511A
Parallel Redundancy Protocol User's Guide	EPDOC-X410-en-511A

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Document name	Document ID
Parameter Definition Editor Reference	EPDOC–XX83–en–511A
Peer Control Data Interface Implementation Guide	EPDOC–XX84–en–511A
Personal Gas Safety Installation, Configuration, and Operations Guide	EPDOC–X524–en–511A
PM I/O Hardware Troubleshooting and Maintenance Guide	EPDOC–XX85–en–511A
Procedure and Sequence Custom Display Building Guide	EPDOC–XX86–en–511A
Profibus Gateway Module Parameter Reference	EPDOC–XX87–en–511A
Profibus Gateway Module User's Guide	EPDOC–XX88–en–511A
Profibus Interface Implementation Guide	EPDOC–XX89–en–511A
PROFINET User's Guide *(New)*	EPDOC–X567–en–511A
Profit Controller User's Guide	EPDOC–X463–en–511A
Project Engineering User's Guide	EPDOC–X471–en–511A
Qualification and Version Control User's Guide	EPDOC–XX90–en–511A
Quick Builder User's Guide	EPDOC–XX91–en–500
R320 Honeywell Server Planning Installation Service Guide	HWDOC–X238–en
R330XL Honeywell Server Planning Installation Service Guide	HWDOC–X452–en
R430 Honeywell Server Planning Installation Service Guide	HWDOC–X453–en
R5500 Honeywell Workstation Planning Installation and Service Guide	EP-DPCX25
R7610 Honeywell Workstation Planning Installation Service Guide	HWDOC–X273–en
R7910XL Honeywell Workstation Planning Installation Service Guide	HWDOC–X369–en

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Document name	Document ID
Rail I/O Series A Implementation Guide	EPDOC–X114–en–511A
Rail I/O Series H Implementation Guide	EPDOC–X115–en–511A
Redirection Manager Users Guide	EPDOC–X116–en–511A
Redundant Power Supply Installation Guide	EPDOC–X117–en–511A
Remote Fieldbus Interface Module Solution Guide	EPDOC–X331–en–511A
Safety Manager Integration Guide	EPDOC–X119–en–511A
SafeView User's Guide	EPDOC–X120–en–511A
Search Utility User's Guide	EPDOC–X121–en–511A
Sequential Control User's Guide	EPDOC–X122–en–511A
Serial Interface Module Implementation Guide	EPDOC–X123–en–511A
Series A Fieldbus Interface Module User's Guide	EPDOC–X124–en–511A
Series C Fieldbus Interface Module User's Guide	EPDOC–X125–en–511A
Series C I/O User's Guide	EPDOC–X126–en–511A
Server and Client Configuration Guide	EPDOC–X127–en–511A
Server and Client Overview and Planning Guide	EPDOC–X128–en–511A
Server Scripting Reference	EPDOC–X129–en–511A
Siemens S7 Interface Reference	EPDOC–X130–en–511A
SIM–ACE User's Guide	EPDOC–X131–en–511A

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Document name	Document ID
SIM-C300 User's Guide	EPDOC-X133-en-511A
SIM-C200E Implementation Guide	EPDOC-X132-en-511A
SIM-FFD User Guide	EPDOC-X134-en-511A
Site Planning Guide	EPDOC-X135-en-511A
Software Installation User's Guide	EPDOC-X136-en-511A
Spirit IT Flow-X Interface Reference	EPDOC-X297-en-511A
Startup and Shutdown Guide	EPDOC-X137-en-511A
Supplementary Installation Tasks Guide	EPDOC-X138-en-511A
Switch Configuration Tool User's Guide	EPDOC-X246-en-511A
System Administration Guide	EPDOC-X139-en-511A
System Management Configuration Guide	EPDOC-X141-en-511A
System Management Operations Guide	EPDOC-X142-en-511A
T130 Honeywell Server Planning Installation Service Guide	HWDOC-X450-en
T320 Honeywell Server Planning Installation Service Guide	HWDOC-X239-en
T330 Honeywell Server Planning Installation Service Guide	HWDOC-X451-en
T610 Honeywell Server Planning Installation Service Guide	EP-DPCX15-en-F
T3600XL Honeywell Workstation Planning Installation Service Guide	HWDOC-X230-en
T5810XL Honeywell Workstation Planning Installation Service Guide	HWDOC-X398-en
TPN Server User's Guide	EPDOC-X143-en-511A
TPS File Transfer Installation and User's Guide	EPDOC-X144-en-

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Document name	Document ID
	511A
Troubleshooting Guide	EPDOC–X243–en–511A
Turbine Control User's Guide	EPDOC–X145–en–511A
UOC User's Guide *(New)*	EPDOC–X512–en–511A
Virtualization Planning and Implementation Guide	EPDOC–X147–en–511A
Virtualization with Premium Platform Guide	EPDOC–X241–en
Windows Domain and Workgroup Implementation Guide	EPDOC–X148–en–511A
Windows Domain and Workgroup Planning Guide	EPDOC–X250–en
Windows Domain Implementation Guide for Windows Server 2008 R2	EPDOC–X251–en
Windows Domain Implementation Guide for Windows Server 2012	EPDOC–X263–en
Windows Domain Implementation Guide for Windows Server 2016	EPDOC–X472–en–B
Wyse Z90 Thin Client Planning Installation Service Guide	HWDOC–X280–en
Yamatake MA500 Interface Reference	EPDOC–X149–en–511A
Z440 Honeywell Planning Installation and Service Guide	HWDOC–X368–en
Z620 Honeywell Planning Installation and Service Guide	HWDOC–X223–en
ACE and SCE Off–Process Migration Guide	EPDOC–XXX1–en–511A
ACE Rapid Restart Upgrade Tool User's Guide	EPDOC–X404–en–511A
Collaboration Station Off–Process Migration Guide	EPDOC–X355–en–511A
Control Hardware and I/O Modules Firmware Upgrade Guide	EPDOC–X150–en–511A
Controller Interoperability Reference for Controller Migration	EPDOC–X240–en–511A
EApp Off–Process Migration Guide	EPDOC–X176–en–

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Document name	Document ID
	511A
EAS Off–Process Migration Guide	EPDOC–X242–en–511A
eServer Off–Process Migration Guide	EPDOC–XX33–en–511A
Experion On Process Migration Guide for Virtualized Environment	EPDOC–X328–en–511A
Experion R511.1 General Release Software Change Notice	EPDOC–X166–en–511A
Experion Support and Maintenance Software Change Notice	ESDOC–X183–en–242A
Experion Support and Maintenance Installation Guide	ESDOC–X165–en–250A
Firmware Manager User's Guide	EPDOC–X470–en–511A
Getting Started with Experion Software Guide	EPDOC–X112–en–511A
HMIWeb Solution Pack Installation Guide	EPDOC–X171–en–511A
HMIWeb Solution Pack Migration Guide	EPDOC–X170–en–511A
HMIWeb Solution Sequence Pack Guide	
HMIWeb Solution Pack Software Change Notice	EPDOC–X172–en–511A
Installation Builder User's Guide	ESDOC–XX65–en–250A
MeterSuite Software Change Notice	MSDOC–X309–en–200A
Migration Planning Guide	EPDOC–XX70–en–511A
R500.x to R511.1 BCC Migration Guide	EPDOC–X521–en–511A
RPS Migration Guide for Extio2	EPDOC–X163–en–511A
System Initialization Media Software Change Notice (SCN)	EPDOC–X185–en–211A

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Document name	Document ID
Upgrade Tool Components Media Software Change Notice (SCN)	EPDOC–X153–en–511A
Upgrade Tool User's Guide	EPDOC–X146–en–511A

The following table lists the document that has been removed from R511.1 System Documentation.

Document name	Document ID
R505.x to R510.x Process System Off–process Migration Guide	EPDOC–X552–en

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CHAPTER

4

GETTING STARTED

- [About Experion installation and migration documents](#)
- [Supported server/client migration paths](#)
- [Supported controller migration paths](#)

4.1   About Experion installation and migration documents

The Read Me First-Experion PKS is provided in printed form with the Experion R511.1 media. All the other documents, such as, the Software Change Notices, Software Installation User's Guide are available in various formats such as PDF, Videos and Quick links in the Experion R511.1 User Assistance. For migrations from ExperionR41x.x to R511.1, see the Upgrade Tool Components Media Software Change Notice.

The following table lists the documents to be used during the installation or migration. These documents must be read and followed to install or migrate an Experion system.

Name of the document	Document usage
Experion R511.1 Software Change Notice	Before installing or upgrading to Experion R511.1.
Getting Started with Experion Software Guide	To get an overview of the Experion system, and the overall installation or migration task flow.
Software Installation User's Guide	To perform a clean installation of Experion R511.1.
Migration guides	Site-specific migration guides: The Upgrade Tool uses the migration guides available on the Experion Upgrade Tool Components media and depending on the site configuration, generates the site-specific migration guides. The site-specific migration guides contain complete information about the migration instructions for a component or node with a particular configuration. The site-specific migration guides are specifically for the R3xx from to R511.1 migration path.
Supplementary Installation	To complete additional tasks once you have completed installation or upgrade of Experion.

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Name of the document	Document usage
Tasks Guide	
Integrated Experion-TPS User's Guide	If you have TPS nodes in your system, use this document to perform additional mandatory tasks after the Experion installation is complete.
System Initialization Media Software Change Notice	The SCN provides the latest information about the Experion PKS System Initialization media and the platforms supported through that Initialization media.
Windows Domain and Workgroup Planning Guide	The document provides the planning information for the Windows domain and workgroups. For R511.1, the Experion domain controller user documentation is aligned with the qualification of domain controller operating systems. For more information about instructions to install and configure a domain controller for Experion, see the following documents. • Windows Domain Implementation Guide for Windows Server 2008 • Windows Domain Implementation Guide for Windows Server 2008 R2 • Windows Domain Implementation Guide for Windows Server 2012 • Windows Domain Implementation Guide for Windows Server 2012 R2 • Windows Domain Implementation Guide for Windows Server 2016

4.2 Supported server/client migration paths

The following are the supported server migration paths for Experion R511.1.

- Experion R410.1 to R511.1 (on-process and off-process migration)
- Experion R410.2 (with or without R410.3/R410.4/R410.5/R410.6/R410.7/R410.8/R410.9 patch) to R511.1 (on-process and off-process migration)
- Experion R430.1 (with or without R430.2/R430.3/R430.4/R430.5/R430.6 patch) to R511.1 (on-process and off-process migration)
- Experion R431.1 (with or without R431.2/R431.3/R431.4/R431.5 patch) to R511.1 (on-process and off-process migration)
- Experion R432.1 (with or without R432.2 patch) to R511.1 (on-process and off-process migration)
- Experion R500.2 to R511.1 (on-process and off-process migration)

- Experion R501.1 (with or without R501.2/R501.4 patch) to R511.1 (on-process and off-process migration)

- Experion R510.1 (with or without R510.2 patch) to R511.1 (on-process and off-process migration)

> **NOTE**
> Migrations from Hotfixes on top of the above mentioned releases/point releases and patches may also be supported to R511.1. Please refer the *Supported Controller Migration Path* list to see the exact HotFixes that are supported.

4.3   Supported controller migration paths

> **ATTENTION**
>
> Contact HPS Migration Center of Excellence (COE) or your local Honeywell Technical Assistance Center (TAC) before migrating.

The following controller migration paths are qualified for Experion R511.1.

Experion R410.1 (410.1.85.0)	R410.9 HOTFIX6	R431.5 HOTFIX3
R410.1 Controller Patch Controlled Release 1	R410.9 HOTFIX7	Experion R432.1
R410.1 Controller Patch Controlled Release 2	R410.9 HOTFIX8	ExperionPKS_R432.1_C200-C300_FTEB-SeriesA_QVCS_Patch
R410.1 Controller Patch Controlled Release 3	R410.9 HOTFIX9	R432.1 HOTFIX1
R410.1 Controller Patch Controlled Release 4	R410.9 HOTFIX10	R432.1 HOTFIX2
Experion R410 Controller Patch 3 (410.1.85.106)	R410.9 HOTFIX11	R432.1 HOTFIX3
Experion R410 Controller Patch 4 (410.1.85.112)	Experion R430.1 (430.1.96.0)	R432.1 HOTFIX4
Experion R410.2 (410.1.85.209)/ (410.1.85.210)	R430.1 Controller Patch Controlled Release 1	R432.1 HOTFIX5
R410.2 Controller Patch Controlled Release 1	Experion R430.2 (430.1.96.100)	R432.1 HOTFIX6
R410.2 Controller Patch Controlled Release 2	R430.2 Controller Patch Controlled	Experion R432.2

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	Release 1	
R410.2 Controller Patch Controlled Release 3	R430.2 Controller Patch Controlled Release 2	Experion PKS R432.2 EHB Hotfix 1
R410.2 Controller Patch Controlled Release 4	Experion R430.3 (430.1.96.121)	R432.2 HOTFIX1
Experion R410.3 (410.1.85.221)	R430.3 Controller Patch Controlled Release 1	R432.2 HOTFIX2
R410.3 Controller Patch Controlled Release 1	R430.3 Controller Patch Controlled Release 2	R432.2 HOTFIX3
R410.3 Controller Patch Controlled Release 2	Experion R430.4 (430.1.96.154)	R432.2 HOTFIX4
R410.3 Controller Patch Controlled Release 3	R430.4 HOTFIX1	R432.2 HOTFIX5
Experion R410.4 (410.1.85.230)	R430.4 HOTFIX2	R432.2 HOTFIX6
R410.4 Controller Patch Controlled Release 1	R430.4 HOTFIX3	Experion R500.1
R410.4 Controller Patch Controlled Release 2	R430.4 HOTFIX4	R500.1 HOTFIX1
R410.4 Controller Patch Controlled Release 3	R430.4 HOTFIX5	R500.1 HOTFIX2
R410.4 Controller Patch Controlled Release 4	Experion R430.5 (430.1.96.183)	R500.1 HOTFIX3
Experion R410.5 (410.1.85.250)	R430.5 HOTFIX1	R500.1 HOTFIX4
R410.5 Controller Patch Controlled Release 1	R430.5 HOTFIX2	Experion R500.2
R410.5 Controller Patch Controlled Release 2	R430.5 HOTFIX3	R500.2 HOTFIX1
R410.5 Controller Patch Controlled Release 3	Experion R430.6	R500.2 HOTFIX2
Experion R410.6 (410.1.85.270)	R430.6 HOTFIX1	R500.2 HOTFIX3
R410.6 Controller Patch Controlled Release 1	R430.6 HOTFIX2	R500.2 HOTFIX4

R410.6 Controller Patch Controlled Release 2	R430.6 HOTFIX3	R500.2 HOTFIX5
R410.6 Controller Patch Controlled Release 3	Experion R431.1 (431.1.49.0)	R500.2 HOTFIX6
R410.6 Controller Patch Controlled Release 4	R431.1 HOTFIX1	R500.2 HOTFIX7
Experion R410.7 (410.1.85.315)	Experion R431.2 (431.1.49.104)	R500.2 HOTFIX8
R410.7 Controller Patch Controlled Release 1	R431.2 HOTFIX1	R500.2 HOTFIX9
R410.7 Controller Patch Controlled Release 2	R431.2 HOTFIX2	R500.2 HOTFIX10
R410.7 Controller Patch Controlled Release 3	R431.2 HOTFIX3	R501.1
Experion R410.8 (410.1.85.390)	R431.2 HOTFIX4	R501.1 HOTFIX1
R410.8 HOTFIX1	Experion R431.3 (430.1.96.132)	R501.1 HOTFIX2
R410.8 HOTFIX2	R431.3 HOTFIX1	R501.2
R410.8 HOTFIX3	R431.3 HOTFIX2	R501.2 HOTFIX1
R410.8 HOTFIX4	R431.3 HOTFIX3	R501.2 HOTFIX2
R410.8 HOTFIX5	R431.3 HOTFIX4	R501.2 HOTFIX3
R410.8 HOTFIX6	R431.3 HOTFIX5	R501.2 HOTFIX4
R410.8 HOTFIX7	R431.3 HOTFIX6	R501.2 HOTFIX5
R410.8 HOTFIX8	Experion R431.4	R501.4
R410.8 HOTFIX9	R431.4 HOTFIX1	R501.4 HOTFIX1
R410.8 HOTFIX10	R431.4 HOTFIX2	R510.1
Experion R410.9 (410.1.85.432)	R431.4 HOTFIX3	R510.1 HOTFIX1
R410.9 HOTFIX1	R431.4 HOTFIX4	R510.1 HOTFIX2
R410.9 HOTFIX2	R431.4 HOTFIX5	R510.2
R410.9 HOTFIX3	Experion R431.5	
R410.9 HOTFIX4	R431.5 HOTFIX1	
R410.9 HOTFIX5	R431.5 HOTFIX2	

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The Controller Migration wizard is used for migrating process controller firmware and control hardware firmware. This wizard automates many of the tasks performed during controller migration and is used for both on-process and off-process migration. It can be accessed from the Controller menu in Control Builder.

For more information, see the *Experion Migration Planning Guide and the Upgrade Tool User's Guide*.

- Platform hardware
- Antivirus software
- Microsoft Office compatibility
- Microsoft security updates
- Experion Support and Maintenance
- Windows operating system
- Experion Backup and Restore
- Application Whitelisting

5.1   Platform hardware

The following physical and virtual platforms are qualified.

> **ATTENTION**
>
> Variations from the tested configuration may negatively impact the operation and/or performance of the hardware when used as the specified node types.

5.1.1   Physical platforms

- **HP platforms**

  The following HP platforms are qualified.

Workstation	Server
HP Z440 workstation	HP Proliant DL360p Gen8 server
HP Z620 workstation	HP Proliant DL360p Gen9 server

- **Dell platforms**

  The following Dell servers and workstations are qualified.

Workstation	Server
Dell Precision R5500 workstation	Dell PowerEdge T320 server

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Workstation	Server
Dell Precision T3600XL workstation	Dell PowerEdge R320 server
Dell Precision R7610 workstation	Dell PowerEdge R330 server
Dell Precision R7910 workstation	Dell PowerEdge T330 server
Dell Precision T5810XL workstation	Dell PowerEdge T130 server
Dell OptiPlex XE2	Dell PowerEdge R430 server
Dell Precision T5820 workstation	Dell PowerEdge R740XL server
Dell Precision R7920 workstation	Dell PowerEdge T340 server
	Dell PowerEdge R240XL server

> **ATTENTION**
> - The performance workstation hardware can be used as a Experion Flex Server – ESV on Windows Client Operating System.
> - To plug in FTE cables on a Dell Precision R7610 workstation, refer to the **NIC connection requirements** section in the *Fault Tolerant Ethernet Installation and Service Guide*.

5.1.2 Virtual platforms

Honeywell provides qualified virtual platforms that can be used with supported applications. The entire solution is supplied and supported by Honeywell. The virtual platforms can be used for clean installation or migration.

The following virtual platforms are qualified.

- VMware Virtual workstation
- vSphere

For more information about virtualization support, see the following documents on the Honeywell Process Solutions website.

- HPS Virtualization Specification
- Experion Virtualization Planning and Implementation Guide

For more information about the hardware supported for Experion, see the latest *System Initialization Media Software Change Notice*.

In addition, you may download the following spreadsheet from http://www.honeywellprocess.com.

- Experion Update Matrix

5.2 Antivirus software

To obtain the latest antivirus software information, you may access the following links in the Honeywell Process Solutions website. If you are a new user, you must register at http://www.honeywellprocess.com.

- Click the following link for Antivirus Software Guidelines.

  https://www.honeywellprocess.com/library/support/Documents/Trusted/Experion/anti-virus-software-guidelines.pdf

- Click the following link for Antivirus Quick Reference.

  https://www.honeywellprocess.com/library/support/notifications/Experion/anti-virus-quick-reference-guide.pdf

5.3 Microsoft Office compatibility

Click the following link for latest information about the qualified Microsoft Office packages for the Experion products.

https://www.honeywellprocess.com/library/support/Documents/Trusted/Experion/certified-microsoft-office-packages.pdf

The latest Microsoft Office package information is available at the Honeywell Process Solutions website. If you are a new user, you must register at http://www.honeywellprocess.com.

5.4 Microsoft security updates

You can access the latest Microsoft security updates at the Honeywell Process Solutions website. If you are a new user, you must register at http://www.honeywellprocess.com.

- To access the latest Microsoft security update information at the Honeywell Process Solutions website, click the following link.

  https://www.honeywellprocess.com/library/support/security-updates/Customer/Honeywell-Qualification-Matrix.zip

- After you register at the website, click the following link for ISO User Guide.

  https://www.honeywellprocess.com/library/support/security-updates/Entitled/suit-iso-user-guide.pdf

5.5 Experion Support and Maintenance (ESM)

Experion Support and Maintenance (ESM) R250.x is qualified with Experion R410, R43x R500 and R51x releases. For more information, please refer to *Experion Support and Maintenance User's Guide*.

5.6 Supported operating system

Honeywell has an Original Equipment Manufacturer (OEM) agreement with Microsoft for supplying operating system media for Experion releases. The following Windows operating systems (English edition) are supported.

- On client nodes
    - Microsoft Windows 10 Enterprise 2016 LTSB (x64)

- On server nodes
    - Microsoft Windows Server 2016 Standard

- On Virtual machines

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- ○ Microsoft Windows Server 2016 Datacenter
- ○ Microsoft Windows Server 2016 Standard

> **NOTE**
> Microsoft Datacenter operating system is only applicable for virtualized environments.

5.7 Experion Backup and Restore

Experion Backup and Restore (EBR) R501.x is qualified with Experion R511.1. For more information, please refer to *Experion Backup and Restore User's Guide*.

5.8 Application Whitelisting

This is not supported in Experion R511.1.

CHAPTER

6

NEW FEATURES AND ENHANCEMENTS

6.1   Experion Batch Enhancements

Experion R511.1 introduces significant new capabilities for the Experion Batch to help plant Operators and Engineers better anticipate and respond to abnormal situations.

Enhancements for Experion Batch for R511.1 include:

- S88 Alignment for terminologies in the User Interface
  - Renaming of Phase block with Recipe Step block in Engineering tools and standard Batch operational displays includes Detail Displays and Procedure Explorer, except for Experion Event journal.
  - Unit Control Module (UCM) is represented as Unit.

- Procedure Explorer enhancements
  - Jump from one active STEP/Recipe Step to another using Single Step through Procedure Explorer.
  - Force the state of transition conditions from Procedure Explorer to bypass the failed conditions to continue the Batch execution.
  - Force the output of a step from Procedure Explorer to skip the failed outputs to continue the Batch execution.
  - Provision of a Details pane for steps and transition conditions, which provides information on the parameters and also allows you to navigate to a specific Detail display or Faceplate of the referred parameter.
  - View and modify the Formula and Report parameter details of the selected active Recipe Step block contained in the Sequential Flow Chart (SFC) from Procedure Explorer.
  - View the Expression details for the selected step and transition from the Details pane.
  - View the parameter values of each expression for the selected step and transition.
  - Navigation Support and Value Support for Expression Call out.

    The following table provides information on the supported parameter reference types to view the values and navigation to Detail display and Faceplate of the reference parameter.

Type	Navigation Support	value Support
Simple/Direct References (Local and p2p)	Yes	Yes

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Type	Navigation Support	value Support
Alias References	Yes (Resolves to the actual target)	Yes
Indirect References	Yes (Resolves to the actual target)	Yes
References of String/non–Simple Datatypes	Yes	Not Supported
References with RunTime Index	Yes	Not Supported
Step Output – Output Parameter Reference	Yes	Not Supported
SCADA/EHPM References	Yes (except Step Output – Output Parameter Reference)	Yes
OPC References	Not Supported	Yes
InterCluster p2p References	Not Supported	Yes

- QVCS enhancements
  - Perform all the version control operations such as Check–in, Check–out, Revert, Retrieve, Publish and Compare for Process Graphics in the Qualification Version Control System (QVCS).
  - Perform all the qualification operations such as Configuring qualification states which includes Adding, Deleting and Modifying the qualification states for Process Graphics in the Qualification Version Control System (QVCS).

- Engineering Tools enhancements
  - Range validation to view the Formula Parameter ranges and store the Formula Parameter values based on the customized range during Batch operation.
  - Customization of Formula parameters for Min Value, Max Value and Access Locks in the Data block during build time to significantly reduce the number of Recipe Block types.
  - Enhancement in the number of formula and report parameters per Data block from 250 to 750.
  - Batch Configuration Validation for Formula Parameter values, Step Block, Recipe Step Block, Transition Block and Recipe Hierarchy.

- Notification Pane for Messages
  - The Notification pane is a new way to view and respond to Experion messages without having to navigate to the Message Summary. It can be enabled on a per-Station basis and will appear in different ways according to your Station type.

- Batch message live value references

  - There is an additional syntax option (:Wxx) for live value references in batch messages which allows engineers to customize how wide the live values are when viewed as a Station Message. This is especially useful for customers who use the Notification pane because it allows for better use of the limited horizontal space.

- Unit Timeline enhancements

  - Support for Phases being implemented as Master Recipes. Refer to the Unit Timeline sections of the *Server and Client Overview and Planning Guide* and the *Sequential Control User's Guide* for important engineering guidelines to ensure that the Timeline renders correctly with various batch engineering approaches.

  - Support for fast display callup when there are large numbers of units in the operator's Scope of Responsibility. Data for unit lanes is gathered progressively as a user scrolls through the list of units.

  - The Now Card displays the Public Name of the active Phase in addition to the two lines of the Recipe Step Block description from the recipe that invoked it.

  - The Unit Card uses the Asset Item Name instead of the Asset Tag Name, allowing for more flexible unit names shown to operators.

  - A 'Show on Unit Timeline' configuration option is available for units in Control Builder. This option allows the other Unit Control Modules to be present within a batch unit asset whilst still having a Timeline lane aligned with the primary Unit Control Module representing the batch unit.

- Batch Summary unit class filter

  - The Batch Summary's recipe list in the Create Batch pane now has a unit class filter which makes it easy to identify recipes that run on a particular class of unit.

- Experion Trend access to PHD history

  - There is a new PHD Point Server configuration option that allows the Experion Trend to automatically gather history from PHD whenever a user scrolls back beyond the Experion server's history range. This feature does not require any special 'PHD' tags to be added to the trend. For information on how to configure this feature, refer to *PHD/Experion Link Installation and Configuration Guide* in the PHD documentation set.

6.2 ControlEdge Unit Operations Controller Features and Enhancements

The ControlEdge Unit Operations Controller (UOC) is a high value, low cost, rack-based process controller that can be applied to any process control application in any industry. Its form factor, cost profile and licensing model make it especially well-suited to industries that prefer to limit the scope of a single controller to a single process unit, and to industries that require powerful batch enablers.

The UOC is paired with a virtualized controller called the virtual Unit Operations Controller (vUOC). The vUOC provides a set of functions parallel to those of the UOC except that they are deployed within a server hosted virtual machine. The UOC and vUOC support Ethernet connectivity, to FTE networks on their uplink, and to I/O and Device networks on their downlink. Each variant can be used for both control and strategy-checkout simulation.

Key features of the UOC control system include the following:

- Field Proven CEE (Control Execution Environment) Algorithms configured through Experion Control Builder

- Operation as Equipment Controller or Supervisory Batch Controller with enhanced memory capacity in the vUOC

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- LEAP enabled I/O Points and I/O Reference Blocks
- Ethernet Connectivity to ControlEdge 900 IO Rack IO
- Ethernet/IP ^{TM} Connectivity to 3rd Party I/O, Devices and PLCs
- ModBus / TCP Connectivity
- Licensing Model optimized for scalability
- Single rack or dual rack redundancy in the UOC
- Dual Attached Node connectivity of both UOC and vUOC to FTE
- Peer to Peer Communication with other Experion controllers
- Secure Communication

New features added in R511.1 include the following:

- Inbuilt DLR support in both UOC and ControlEdge 900 IO racks
- Restart from power loss with database saved on SD card (UOC) or hard disk (vUOC)
- Connectivity of NAMUR DI sensors to ControlEdge 900 UIO module
- Cascaded network Ethernet/IP ^{TM} connectivity to ControlNet I/O using third-party bridge modules
- On-demand connectivity feature to EtherNet/IP devices
- ProfiNet connectivity to 3rd party PLCs, I/O and devices

For more information about UOC, refer to *UOC User's Guide*

6.2.1   PROFINET

PROFINET is an Ethernet open standard (IEC 61158) defined by PI (PROFIBUS and PROFINET International) and complies with the industrial Ethernet requirements. PROFINET IO is an Ethernet-based automation standard that uses TCP/IP for diagnostics, non-real time critical data, and for communicating with other non-PROFINET IO-based devices. PROFINET uses real-time protocol for IO data access, this real-time protocol co-exists with TCP/IP stack without restrictions.

PROFINET has a variant named PROFINET IO that is used to integrate simple distributed I/O and time-critical applications to communicate over Ethernet.

For more information, refer to the *PROFINET User's Guide*.

6.2.2   EtherNet/IP^{TM} Enhancements

1. Cascaded network EtherNet/IP^{TM} connectivity to ControlNet I/O using third-party bridge modules.

    - This feature allows users to create and connect to 3rd Party I/O modules which are on ControlNet.
    - Enables a migration path to UOC for installations with C200 or ControlLogix and ControlNet connected IO Modules.

2. On-Demand connectivity feature to EtherNet/IP^{TM} IOMs.

- Allows enabling and disabling connections to a set of loaded IOMs programmatically.

- Enablers have been provided to program dynamically changing connections from one device to another. This feature is especially useful when working with Moveable equipment's that have EtherNet/IP IOs mounted on them.

3. Connectivity to DeviceNet, ControlNet and Profibus IO Modules via EtherNet/IP^{TM}.

- Enables DeviceNet connectivity to UOC with the integration of DeviceNet Interface module (1756–DNB).

- Enables Profibus Connectivity to UOC with the integration of PROFIBUS interface Module (1756–SST).

  ○ Connectivity uses the PROFIBUS interface Module SST-PB3-CLX-HWL, manufactured by Molex Inc. along with models SST–PBF-CLX and SST–PBF–CLX-RLL.

- Qualification of 4 Series A IO Modules (1756 IOM) in this release.

> **NOTE** :
> ○ These modules can be directly Ethernet connected in which case a 1756–EN2TR bridge module is used to connect to UOC.
> ○ These modules can be ControlNet connected in which case a bridge chassis with a 1756–EN2TR (to connect to UOC downlink Ethernet) and 1756–CN2R (to connect to ControlNet) is used to connect to UOC.

6.2.3   C300–EIM EtherNet/IP Capacity Enhancement

In R511, the number of EtherNet/IP I/Os that can be connected to C300 through EIM has been enhanced from 80 to 128.

6.2.4   Composite Device Point(s) License

Composite Device Point(s) license is applicable for PLCs and Complex devices such as Motor starters, drive controllers. Composite Device Point(s) license is counted on Load of the device. For instances of loading a Complex device or a PLC, only the composite device point license will be counted. Number of Composite Device Point(s) license consumed will directly map to the number of Complex Devices or PLCs loaded.

Enhancements for Compostie Device Point(s) License include:

- Composited Device Point Count
- Composite Device Point Enforcement
- UOC Licensing Display on Control Builder

> **NOTE**
> This license is applicable only for points under UOC controller.

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6.2.5 Simulation

UOC may be used for both control and strategy-check-out simulation without the need to deploy a special purpose simulation application. Simulation behaviors of strategies are controlled through the SIMMODE parameter of I/O Reference blocks within the Control Module under test.

The following options are available to perform simulation:

- NONE – Simulation is not applicable. It will fetch the actual values from the connected IO Point.
- DIRECTSUB – User should manually enter the required SIMVALUE.
- SIMVALSUB – User can map the simulation to another parameter.

6.3 Experion Reports

Experion Report is a new report type that supports the Experion system. The Experion Report allows users to create report definition files that specify the report data as well as layout. This is achieved through a new report builder display that allows users to build and modify the report definition files for Experion Reports in a simple and flexible way.

New enhancements added in R511.1 for Reports include the following:

- Experion Report as a new report type
- The report builder display in Station and Configuration Studio
- Acrobat (PDF) as a destination file type for some report types including Experion Report.

For further information, see "Experion Report" in the R511.1 *Server and Client Configuration Guide.*

6.4 Experion OPC UA Server

The Experion OPC UA Server gives an OPC UA client read/write access to Experion point parameters. It is based on the OPC Foundation Specification, and can accept connections from OPC UA clients.

In this release of Experion, the OPC UA Server supports the following profiles, facets, and conformance units of the OPC UA DA specification.

For more information about the automation interface, see the *Open Platform Communications Standard.*

- Standard 2017 UA Server Profile excluding the following conformance units:
  - Address Space Base
  - Address space Full Array Only
  - Base Info ResendData Method
  - User Token – X509 Certificate Server Facet

- SecurityPolicy – None
- SecurityPolicy [A] – Aes128-Sha256-RsaOaep
- SecurityPolicy [B] – Basic256Sha256
- SecurityPolicy – Aes256-Sha256-RsaPss
- User Token – Anonymous Facet
- User Token – User Name Password Server Facet

If your system has redundant Experion servers, the Experion Server Selector can be used to provide redundancy support for OPC UA connections.

6.5 Experion Connector for Movilizer

Experion Connector for Movilizer provides a solution to integrate Honeywell Movilizer with an Experion server. It allows business process workflows (Movelets) to use Experion data on mobile devices.

You can use Experion Connector for Movilizer in the following two methods:

- Publish Experion process data and limits to Movilizer master data. Movilizer master data is synchronized periodically when the Experion Connector for Movilizer publishes Experion process data and limits.

- Access real–time Experion process data and limits through Movilizer online data. Movilizer online data requests real–time Experion data for current values whenever the request is triggered through Movelets.

6.6 Experion User Assistance

The Experion User Assistance is a contemporary product documentation interface that has replaced the PDF Collections to enhance the user experience on desktops, laptops, and tablets. PDFs are still available from within the User Assistance site, but not from the Start menu. Instead, there is an Experion User Assistance option in the Start menu (within the Honeywell Experion group) that launches the new interface.

The Experion User Assistance option can also be invoked in a dedicated browser window from within the product by pressing F1 or choosing an option from the Help menu of the following tools:

- Station
- Quick Builder
- HMIWeb Display Builder
- Configuration Studio
- Enterprise Model Builder

Being a centralized content repository, Experion User Assistance provides easy access to the entire Experion documentation set which for the first time also contains videos. Filtered searching enables you to limit search results to those relevant to the type of task you are performing, such as Configuration or Installation. The interface can be integrated as a SafeView object in multi–window Station, enabling you to control its characteristics.

For more information about how to do this, see *SafeView configuration for Experion User Assistance* in the "Special considerations" on page 74 chapter of this Software Change Notice.

> **NOTE** : PDF versions of the documentation are still available within the Experion User Assistance interface for those who prefer that format.

6.7 Hardware Nodes Diagnostic Collection via DCT

The current DCT tool which collects the software diagnostics from Experion nodes is enhanced to collect the diagnostics from hardware modules as well. This feature is available as a separate tab

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named 'Embedded Nodes' under the Advanced section in the existing DCT tool. The collected hardware data is packaged with the existing DCT cabinet file for better usability. This enhanced feature allows the timely collection of both hardware and software logs, resulting in better diagnostics of problems.

The feature supports collecting diagnostic information from the following Series C controllers:

- C300
- FIM4
- FIM8
- PGM2

The feature supports collecting diagnostic information from the following Series C IO modules (PMIO doesn't support the log collection)

- AI-HART
- AI-HL
- AI-LLMUX
- AI-LLAI
- AO-HART
- AO
- DI-HV
- DI-24
- DO-24B
- DI-SOE
- SVP
- SP
- PI

6.8 MeterSuite- Algorithm Updates

In Experion R511.1, a new function block library AGA_V2 is added to support latest versions of AGA (American Gas Association) standards. The library supports the following calculations:

- AGA3OM_V2_2013: American Gas Association Report No. 3, "Orifice Metering of Natural Gas and Other Related Hydrocarbon Fluids," Part 3, "Natural Gas Applications " Fourth Edition, November 2013.
- AGA8GS_V2_2017: AGA Report No. 8, Part 1, Thermodynamic Properties of Natural Gas and Related Gases, DETAIL and GROSS Equations of State, 3rd Edition, April 2017.
- AGA8DL_V2_2017: AGA Report No. 8, Part 1, Thermodynamic Properties of Natural Gas and Related Gases, DETAIL and GROSS Equations of State, 3rd Edition, April 2017.
- AGA8GERG_2017: AGA Report No. 8, Part 2, Thermodynamic Properties of Natural Gas and Related Gases, GERG-2008 Equation of State, 1st Edition, April 2017.

6.9 SCADA Enhancements

SCADA enhancements for Experion R511.1 include:

- Support has been added for Modbus broadcast on an Enron Modbus interface. This is applicable to devices connected via serial link or terminal server.

- Support has been added for reading and writing 64 bit integer and float values on the Modbus and Enron Modbus interfaces.

6.10 UIS Enhancements

UIS enhancements for R511.1 include:

- Set the text of a Message block dynamically (UIS 2309)

- Checkpoint file validation (UIS 2107)

- Inputs on Logic Blocks (GE, GT, LE, LT, EQ, NE) (UIS 2301)

6.10.1 Set the text of a Message block dynamically (UIS 2309)

A configured message(MESSAGE[n]) contains two portions, text portion and an optional variable portion:

1. MSGDATASRC – The source of the variable portion (MSGDATASRC) can be configured using a point picker.

2. MSGDATAFMT [0...15] – The Message Data Format (MSGDATAFMT [0...15]) is used to set the decimal format of the configured MSGDATASRC of type float.

The Message Data Format can be configured using parameter MSGDATAFMT[n].

The MSGDATASRC [n] supports the following data types:

- Unsigned Integer Data type

- Integer Data type

- Floating Point Data type

- Boolean Data types

6.10.2 Checkpoint file validation (UIS 2107)

A new option is introduced to perform checkpoint file validation from Station or Control Builder. This enhancement provides a new button "Validate" on the Restore from Checkpoint dialog box to validate a checkpoint file.

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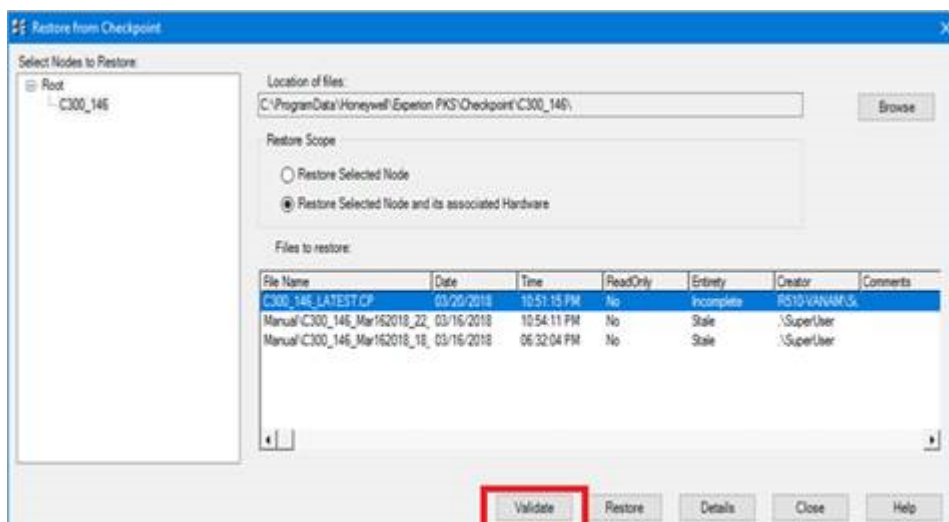
The work flow is as follows:

1. Click **Validate**.

   Checkpoint file validation is initiated, a **Validation Progress** dialog is displayed. If any errors are identified during the validation, it is displayed on the **Validation Progress** dialog.

2. Depending on the errors reported, take appropriate corrective actions.

3. After taking a corrective action, click **Validate** to re-validate the checkpoint file to make sure it passes all validation checks.

6.10.3 Inputs on Logic Blocks (GE, GT, LE, LT, EQ, NE) (UIS 2301)

A new option is introduced in Control Builder, under System Preferences, to enable/disable synchronization between NUMOFINPUTS and block pins for logic blocks. This option is unchecked by default, that is, the synchronization is not established.

A new parameter SYNCPINSTONUMINPUTS is introduced for blocks GE, GT, LE, LT, EQ and NE and it is available on the Main tab of the configuration forms for these blocks. The Synchronize Input pins with number of inputs specifies the default value for the parameter SYNCPINSTONUMINPUTS of GE, GT, LE, LT, EQ and NE blocks. It is applicable only for GE, GT, LE, LT, EQ and NE blocks. It is unchecked by default.

> **NOTE**
> It is applicable only if new instances for the blocks are created and not for existing blocks.

6.11 Experion Local Control Network (ELCN)

The ELCN enhancements of Experion R501.4 has been merged with Experion R511.1

The new features of ELCN are:

- ELCN Appliance Nodes (physical, Universal Embedded Appliance – UEA) of:
  - Redundant ENIM (available since R501.1)
  - Redundant Application Module (AM)
  - Redundant Experion Hiway Bridge (EHB)
  - Redundant EPLCG

- ELCN Virtual Appliance Nodes (Universal Virtual Appliance – UVA) of:
  - Redundant ENIM
  - Redundant AM
  - Redundant EHB
  - EPLCG (only available in OpenVEP environment)

- SIMNIM (only available in OpenVEP environment)
- Soft HPM Simulator (only available in OpenVEP environment)

The Experion LCN (ELCN) is the Fault Tolerant Ethernet (FTE) version of the coaxial cable-based LCN, where LCN communications are encapsulated on FTE. Each Experion LCN node has FTE cabling, but no LCN cabling. There is no LCN coaxial cable or LCNI devices. The Experion LCN is one component of Honeywell's strategy to preserve the user's investment in TDC 3000 (TDC, LCN, TPS, and TPN), while providing the advantages of the Experion System, the Fault Tolerant Ethernet network, and virtualization technology. All existing user-created LCN data objects (such

as checkpoints, button configuration files, display objects, and CL/AM objects) run on the Experion LCN platforms, without recompile, rebuild, or reconstruction. For any given user-created data object source file, there is only one compiled object file. A single image of each TPN/LCN personality (node) can execute on both the legacy platform and on the Experion LCN platform.

The ELCN Bridge is a key component in LCN to ELCN migration. The ELCN Bridge connects the coax-based LCN to the FTE-based ELCN, creating a single logical hybrid network. The ELCN Bridge translates LCN messages into Ethernet messages and vice versa, providing a means for legacy LCN functions and the Experion version of those functions to coexist and interoperate while you migrate the LCN nodes to the ELCN counterpart.

The ELCN Bridge is NOT required if performing an off-process migration of ALL LCN nodes to Experion LCN. The ELCN Bridge IS required for the following migrations:

- If performing an on-process migration, the ELCN Bridge is required. After establishing the ELCN Bridge, you migrate each coax-based LCN node to its Experion LCN node counterpart, one at a time.

- If one or more coaxial LCN nodes are to remain on the coaxial LCN, then the ELCN Bridge is required for data transfer to occur between the remaining coaxial LCN nodes and the Experion LCN nodes – even if an off-process migration had been performed.

The ELCN migration may occur incrementally over time. After the last LCN node is migrated to ELCN (no nodes remain connected to the LCN coaxial network other than the ELCN Bridge), the ELCN Bridge can be removed.

Experion R511.1 and TPN R688.1 introduces UEA-based appliance redundant AM, redundant EPLCG, and redundant EHB (physical and virtual). Note that the Virtual EPLCG will not be available for a production application, but only for Open VEP (Virtual Engineering Platform). The virtual EPLCG may be used only for configuration or training purposes.

Experion R511.1 and TPN R688.1 also introduces SIM-NIM and Soft HPM Simulator. Both SIM-NIM and Soft HPM Simulator personalities provide you the capability to simulate functions of a NIM or HPM along with the Input/Output Processors (IOPs). They support a low cost, high-fidelity approach to simulation intended for use in control strategy checkout or as a support tool in an operator-training environment. The SIM-NIM operates on an ELCN E-APP node and does not require EPNI and LCNP4 physical hardware. When we operate HPM in the simulation mode, modules like the HPM COM/Control board, IO link and the IOPs are not required. Program access to read the simulated output data and to write the simulated PV data is enabled. This allows a user program, or a Physical HPM, or an Application Module to perform the process simulation function. For more information on SIM-NIM and Soft HPM Simulator, refer to the Soft HPM Simulator User's Guide.

There are two general categories of ELCN Nodes: TPS Nodes and Appliance Nodes. ELCN TPS Nodes are Experion nodes deployed on a physical Microsoft Windows-based platform or as a virtual machine. You migrate legacy LCN user interface nodes (US, UxS, and GUS) to the ELCN as TPS Nodes. You also deploy the ELCN History Module as a TPS node. You migrate LCN data owner nodes (such as the ENIM, AM, EPLCG, and EHB) as ELCN Appliance Nodes or ELCN Virtual Appliance Nodes. ELCN Appliance Nodes use the Honeywell Universal Embedded Appliance (UEA) hardware platform, as does the ELCN Bridge.

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The following figure illustrates a simple architecture of ELCN.
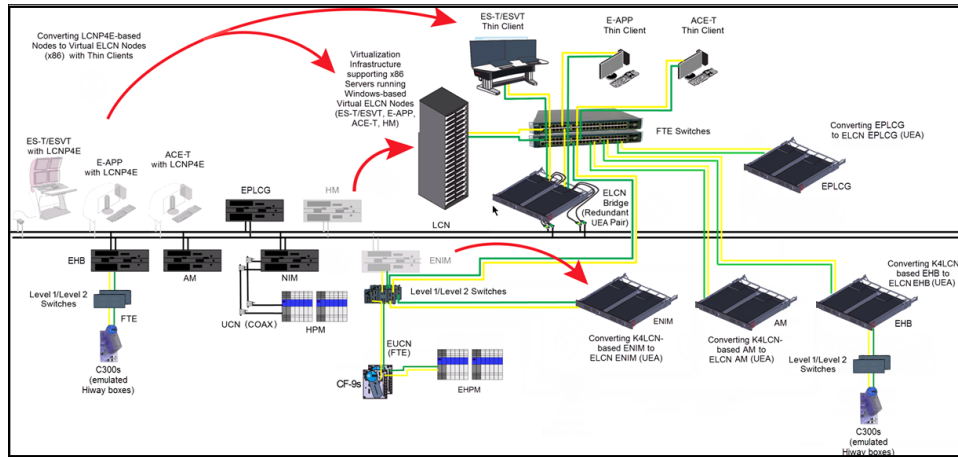
Benefits of ELCN are:

- Replacement of coaxial cables with superior Fault Tolerant Ethernet, which tolerates all single faults and many multiple faults, and is much easier to maintain.

- Retaining intellectual property in legacy assets by conserving applications running on the TPS/LCN.

- Increased plant longevity through Unified Control (Experion and TPS).

- Retaining point processing and checkpoints from classic nodes.

The following list identifies all documents that may be sources of reference for material discussed in this section.

Document Name	Document Type	Document Set
ELCN Planning, Installation, and Service Guide	Planning and Design; Troubleshooting	Experion
ELCN Overview and Implementation Guide	Planning and Design	Experion
Experion Migration User's Guide (EMUGs)	Installation and Upgrades	Experion
ELCN Quick Start Guide	Reference	Experion
ELCN Upgrade Kit Instructions (51195195-415)	Installation and Upgrades	Release Independent
Customer Release Guide	Installation and Upgrades	TPN/TPS
Experion Software Installation User's Guide	Installation and Upgrades	Experion
Control Building User's Guide	Configuration	Experion
Integrated Experion-TPS User's Guide	Configuration	Experion and TPN/TPS
Virtualization Planning and Implementation Guide	Planning and Design; Installation and Upgrades	Experion
Server and Client Planning Guide	Planning and Design	Experion
Server and Client Configuration Guide	Configuration	Experion

Document Name	Document Type	Document Set
Control Builder Parameter Reference	Reference	Experion
Control Builder Components Reference	Reference	Experion
Experion R501.4 Software Change Notice	Reference	Experion
TPN Personalities R688.1 Software Change Notice	Reference	TPN/TPS

> **NOTE**
>
> The ELCN–EPLCG "Redundant communications" option (configurations 2, 5 and 6) and the Allen Bradley "Report–By–Exception" feature are not supported in Experion R511.1.

6.11.1 Deploy Virtual Appliances using OVA template

> **ATTENTION**
>
> This feature is supported only for **ELCN Universal Virtual Appliances**.

For instructions on how to download the OVA template, refer to the *Experion Read Me First* document available on the Honeywell Online Support website.

6.12 Security Hardening of Windows Operating System

To improve the security of the Windows operating system, security policies, group policies and audit policies have been configured as per the Center for Internet Security (CIS) configuration guidelines. Detailed information about the policies configured are described in the *Windows Domain and Workgroup Planning Guide* under the section *Security policies configured as part of Experion installation*.

6.13 Experion Software Installation Enhancements

In Experion R511.1, the System Inventory Tool (SIT) will be installed as a standalone component and not as a part of the Experion media installation.

6.13.1 System Inventory Tool installation

Beginning with SIT R300.1, SIT collection support has been extended to PMD nodes at L2 along with L3-Advanced Solution System PCs. SIT is a distributed application at L2, where two different components of SIT are installed, each one on a different node. Whereas, on L3, only one component is installed on a single node. The two components are: SIT User Interface and SIT Data Collector.

The following table describes the differences in the installation at L2 and L3.

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Components	L2	L3
SIT User Interface	Installed on a single node in the complete cluster.	Installed on a single node in the complete cluster.
SIT Data Collector	Installed on all non-redundant process servers and on Server B of a redundant process server pair in each cluster.	Not applicable.

6.14   System Inventory Tool

System Inventory Tool (SIT) captures a detailed overview of the hardware inventory and software inventory of the Honeywell 's different control system (like ExperionPKS, PMD, QCS) and related assets installed on site as well as inventory of Advanced application products. This inventory information assists system users with making decisions around their system with a detailed level of granularity. Inventory details can be viewed on the System Inventory Portal (http://www.honeywellprocess.com/support) and updated on an as-needed basis.

SIT collects Level-1 (L1), Level-2 (L2) control system PCs (Personal Computer), Level-3 (L3)-Advanced Solution system PCs , and Switch inventory data. The L1 and Switch inventory collection is performed on ExperionPKS, PMD and QCS nodes. The SIT User Interface component is installed only once on the entire network either on an ExperionPKS Flex Station or an ExperionPKS Console Station. The SIT Data Collector is installed on all non-redundant process servers and on Server B of a redundant process server pair in each cluster.

For more information, refer to the latest *System Inventory Tool Installation and Configuration Guide*.

PROBLEMS RESOLVED

This chapter provides the details of resolved PARs.

> **NOTE**
>
> A documentation PAR is included in the SCN only if it is reported by customer and has a priority severity position 2.1 or higher.

7.1 Common components

7.1.1 Software Configuration Management

PAR	Function	Description
1-5HLSY0B	Software Configuration Management	[PKG-QT] STAC-FDM package missing from Install DVD-2. Found during C5 TP2 PKG QT.

7.1.2 System Management

PAR	Function	Description
1-9217LHT	System Management	Cannot connect to HCI-based OPC servers on Experion R510 B17.

7.1.3 Table View

PAR	Function	Description
1-A1NNRN9	Table View	Single Step & Safe Step Button not available while using Table View .

7.1.4 Experion TPS Infrastructure

PAR	Function	Description
1-43HBRXV	Experion TPS Infrastructure	[PCUS] After upgrading PCUS to R431.2, LCN addresses become 0.

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7.2 Controllers and Tools

7.2.1 Control Builder

PAR	Function	Description
1-LH4MXJ	Control Builder	[M&I] Phase Block with empty library name is getting created & resulting in IXP errors on migration to R410.

7.2.2 Control Builder-Configuration Form

PAR	Function	Description
1-6ASKHK5	Control Builder-Configuration Form	[SFT] Control Builder/Station hangs while navigating to DO status tab in Monitoring View.

7.2.3 EIP-CEE-EMBEDDED

PAR	Function	Description
1-96E4ICX	EIP-CEE-EMBEDDED	Experion R500.2 C300 on-process migration failure occurs when using (EIP Driver) PF755 Channel in CM.

7.2.4 IEC870 Interface

PAR	Function	Description
1-A29OLAP	IEC870 Interface	"IEC60870 Point Server" Service does not start automatically.
1-85YZ8I2	IEC870 Interface	IEC870 SQL database not migrated.
1-AUEKVWJ	IEC870 Interface	Unable to Read and Write Point Values to IEC-870 system when CDA controller execution period is set to 2 seconds .

7.2.5 I/O-Series C

PAR	Function	Description
1-3GAHYYS	I/O-Series C	[SCIO][VW] Series C DO channels are not following default settings for initialization.
1-3I90BL7	I/O-Series C	[SCIO][HART] HART information is not getting updated for WIKA transmitters when connected to SCIO.
1-5S2EVPM	I/O-Series C	[SCIO] Series C AI module state changes from Run to Idle on its own.

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7.2.6 Standard Series C- I/O Module

PAR	Function	Description
1–8ZCFEI9	Standard Series C- I/O Module	[SFT] LLAI module channels value goes to NaN during stable run when it connects over FOE.

7.2.7 Profibus Interface Modules

PAR	Function	Description
1–479NUAX	Profibus Interface Modules	[SFT PGM]After PGM RRR Siemens ET200M DSB going to configured state.
1–A59ZM2D	Profibus Interface Modules	[SFT PGM] In DPV1 tab, "DPV1SLOTNUM" entry should support 0-254 as per profibus standard.
1–1275R3B	Profibus Interface Modules	[SFT]After Network disconnect & connect all the output channel status went to Bad_NonSpecific.
1–9V9Y7CT	Profibus Interface Modules	[PCT]PB links, DSB and PBHIOMB are grayed out after enable/Disable sync & Switchover test.

7.2.8 Configuration Studio

PAR	Function	Description
1–8NC55WO	Configuration Studio	QBDB migration failed if the database is locked for maintenance.
1–3FSWFYF	Configuration Studio	It is not possible to name scada RTU as EMDB Asset.
1–97S8B35	Configuration Studio	Quick Builder does not support localization of Duplicate, Copy/Paste features.
1–8VBJR41	Configuration Studio	Container point associated display field doesn't work.
1–B1V6ZJX	Configuration Studio	Errors occasionally appear when viewing Controller Integration items in Configuration Studio after publishing from an RTU project in ControlEdge builder.
1–3K1X671	Configuration Studio	Quick Builder is not able to display non-English characters in property sheet.
1–71PU57B	Configuration Studio	Quick Builder can not display point in Asset.
1–849IWTP	Configuration Studio	OPC Parameters deleted from Quick Builder database on upload.
1–8NC55UD	Configuration Studio	Quickbuilder (QBDB) database owner should be an active user, like other SQL DB use by Experion.
1–ASMCHCV	Configuration Studio	[DVT] Configuration Studio crash in Display Repository multi user scenario.

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7.2.9 Experion Batch Manager-Controller

PAR	Function	Description
1-7JXC6Z9	EBM-Controller	Need to be able to recover after Phase block communication errors
1-A29JS0I	EBM-Controller	Elements can be missing from Unit Timeline & PE after console station or non-redundant server reboot
1-PK1QJ5	EBM-Controller	CR stays in "Acquiring Resource" after issuing START to it after Circular OPM of C300.

7.2.10 Fieldbus Library Manager

PAR	Function	Description
1-89KASZV	Fieldbus Library Manager	Smartline ST800FF Dev's – 4 – issue importing the DD files in EPKS R311.2 – Control builder crashes.

7.2.11 SCM-Sequential Control Module

PAR	Function	Description
1-9CGRENF	SCM-Sequential Control Module	LOC Having a controller issue the SCM is not working properly due to peer memory issue.

7.2.12 ModBus TCP Infrastructure

PAR	Function	Description
1-9MCOB71	ModBus TCP Infrastructure	C300 PCDI needs to handle split packets response from the Modbus TCP device.

7.2.13 Procedure Explorer

PAR	Function	Description
1-9AYK3OB	Procedure Explorer	[EBS] Pinch to Zoom is not implemented for OTP.

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7.2.14   PGM

PAR	Function	Description
1–3UBSPIL	PGM	PGM OPM fails if NVS failure exists. Compact NVS prior to OPM.

7.3   Installation and Migration

7.3.1   INS-Experion Installer

PAR	Function	Description
1–447BR3F	INS-Experion Installer	[IV]Experion_Update_Manager.exe has stopped working msg appeared during cleanR431.2 R3 installation.

7.3.2   Fieldbus Interface Module

PAR	Function	Description
1–9X4QTK5	Fieldbus Interface Module	Config MTL F809F–Plus_0301 Diagnostics module through DTM all Devices Block in the FIM Goes to RED.

7.3.3   Scenario– Based EMUG

PAR	Function	Description
1–9990QN5	Scenario–Based EMUG	[M&I] CTools fails to open from base release server A when server B is in migrated state.

7.3.4   Software Install and Upgrade Guide

PAR	Function	Description
1–8Q4II19	Software Install and Upgrade Guide	[M&I]Standard documentation did not seem to include workflow for classic ESVT node to ELCN migration.

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7.4 Servers and Stations

7.4.1 Detail Displays

PAR	Function	Description
1-9SB90E7	Detail Displays	Detail display for NORSOK blocks in station give Stack over flow pop up message.
1-9L8KCZL	Detail Displays	When using Analog Faceplates on the Group Detail and Group Trend page the EU Range does not scale to match the PV indicator level.
1-7MWXNNB	Detail Displays	The point browser list options in DSA configuration page displaying incorrectly.
1-B07M51F	Detail Displays	[OPM] Dark theme is not retained after migration from R500.2 to R501.

7.4.2 Experion Batch Manager- Server or Station

PAR	Function	Description
1-B2K8YFV	Experion Batch Manager–Server or Station	[EBS] Script error observed while acknowledge the instruction messages from notification center .
1-AQGXAQP	Experion Batch Manager–Server or Station	Stations may sometimes reconnect unexpectedly, especially when using Batch Summary.
1-ASYEIQV	Experion Batch Manager–Server or Station	Activities do not change asset when primary unit specified, causing incorrect message asset .
1-AI7TWRD	Experion Batch Manager–Server or Station	Batch Summary may show questionable status temporarily when applying multiple formula parameters or unit selections .
1-AMEDMB9	Experion Batch Manager–Server or Station	Removing a large number of activities using the Batch API may result in degraded server performance.

7.4.3 HMIWeb Station

PAR	Function	Description
1-81OJKSL	HMIWeb Station	Alphanumeric with Enable Parameter Format does not work as expected.
1-AIFK3UZ	HMIWeb Station	CancelResponse method when used inside a popup may cause Station application error.
1-98NKTRZ	HMIWeb Station	Station gets resized when Operator Touch Panel option is enabled and then disabled in Station connection properties.
1-	HMIWeb	Back button on Multiwindow Station shows filenames instead of titles.

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PAR	Function	Description
9OD8CZ5	Station	
1–AYW5H21	HMIWeb Station	Changing rapidly through DSP diplays causes flickering in station.
1–9BB2ZPN	HMIWeb Station	Setting alphanumeric value to 'nothing' in a script causes Station error.
1–AYD6CY9	HMIWeb Station	Station may stop responding for few seconds when operator navigates between process displays on systems that make heavy usage of PMD faceplates.
1–AVBFFR7	HMIWeb Station	Print menu in Station may fail to invoke Print dialog.
1–7KCQ3MV	HMIWeb Station	Limit trend opens by default without any scaling.
1–7Y406SR	HMIWeb Station	Alarm icons are not visible on the printout if the alarm summary is printed via the Station print command.
1–ABSNHVL	HMIWeb Station	Station help files are not working.

7.4.4 HMIWeb Station – Collaboration Station

PAR	Function	Description
1–A1LNDJT	HMIWeb Station – Collaboration Station	Collaboration Station windows does not retain the position or size configured in previous session.
1–71XOJGV	HMIWeb Station – Collaboration Station	RPC_E_Serverfault error message is observed when launching the Collaboration Station.
1–A5IWC9F	HMIWeb Station – Collaboration Station	[RIL]Occasionally windows opened from Collaboration Station leaves a trail of the application's close button.
1–A8VA2Q9	HMIWeb Station – Collaboration Station	Collaboration station workspace is getting managed by collaboration station.

7.4.5 HMIWeb Station – General

PAR	Function	Description
1–9RBUGCV	HMIWeb Station – General	Anunciator panel on COM1 DTR does not funtion.

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7.4.6   HMIWeb Station- Printing

PAR	Function	Description
1-9A5HGVN	HMIWeb Station- Printing	Print Preview titlebar buttons may get hidden behind other windows in MultiWindow mode making it difficult to close print preview window.
1-9871DCV	HMIWeb Station- Printing	Shrink to Fit option does not fully scale to fit the page when printing trend and some system displays in Station.
1-8TLJGJJ	HMIWeb Station- Printing	Alarm summary and Trend group print preview fails when launched second time.

7.4.7   HMIWeb Station- Trend

PAR	Function	Description
1-AT3306P	HMIWeb Station- Trend	Trend legend columns truncate the text for certain point types and description lengths.
1-A8ITB8R	HMIWeb Station- Trend	Script error appears after first touch on Limits Trend canvas on OTP.

7.4.8   HMIWeb Display Builder

PAR	Function	Description
1-6HTHI8B	HMIWeb Display Builder	Station may display an unspecified error when using scripts to access custom properties initialized to NULL.
1-9HW7QTB	HMIWeb Display Builder	Sometimes "Type of breakpoint" property under Animation tab does not set if "Faceplate" behavior is applied.
1-A6WPABH	HMIWeb Display Builder	HMI Web display builder crashes when create alarm groups utility within the display builder assistant is used for bulk operation
1-2EDLHTZ	HMIWeb Display Builder	Not possible to add and save an image into image text field of Property Sheets/Property grid for the Page.

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7.4.9 HMIWeb Display Elements

PAR	Function	Description
1-APP5HNL	HMIWeb Display Elements	If an activity table is placed on a process graphic that is called up as a popup, a script error will be generated on page load.
1-938H00T	HMIWeb Display Elements	Context menu may invoke incorrect detail display when used after invoking a faceplate for another point.

7.4.10 HMIWeb Displays

PAR	Function	Description
1-AKZ2G7V	HMIWeb Displays	DSP displays indicator object does not read value range and does not scale properly.
1-AAAGE7T	HMIWeb Displays	Optionally allow enlarged alarm indicators to be enabled in Station in Classic Theme.
1-B56S8UD	HMIWeb Displays	Script error occurs when user clicks on the equipment field detail display.
1-B0ARVO3	HMIWeb Displays	The page number on the SCADA controller page do not align correctly to their respective boxes when there are more than 2 digits in the page number.

7.4.11 Procedure Explorer

PAR	Function	Description
1-9AYK3OB	Procedure Explorer	Pinch to Zoom is not implemented for OTP.

7.4.12 Server – Alarm/Event

PAR	Function	Description
1-4CINRJ3	Server – Alarm/ event	Console Station re-alarming when a cleared alarm is unsolved.
1-7BBVZXX	Server – Alarm/ event	Conflict between shelving and EAN settings.

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PAR	Function	Description
1–7Q18HVF	Server – Alarm/ event	Analog Tags go to BAD PV at the same time.
1–7XG5D27	Server – Alarm/ event	The confirm input pin for message type control block in control builder not working.
1–9X7MXYN	Server – Alarm/ event	When the Alarm Summary is opened on a system, parameter subscriptions for live values will always be at 1 second regardless of the Station update rate.
1–922Q7LD	Server – Alarm/ event	In rare case on translated systems, the alarm summary may generate a popup error when an alarm is selected.
1–68YG9O9	Server – Alarm/ event	When console stations are restarted, previously non suppressed CDA and TPS alarms on that console station can be automatically supressed if they are part of an active suppression group.
1–8ZYTZP5	Server – Alarm/ event	If deactivation delay is set and suppression group is disabled, activating the trigger will cause the group to suppress.
1–9R8DGB7	Server – Alarm/ event	The alarm summary does not support the option to show a light background in classic theme.
1–ACZUP5J	Server – Alarm/ event	If a acknowledged alarm is shelved with the "unshelve if the alarm returns to normal" option enabled, the error message shown to the operator is misleading.
1–A6QW7WX	Server – Alarm/ event	When the alarm summary is filtered by alarm state, there is no visible indication on the alarm summary that the filter has been applied.
1–AY26WNT	Server – Alarm/ event	Optionally allow enlarged status bar indicators in Station when using light and dark theme.
1–7Q1TWX7	Server – Alarm/ event	In rare cases, expanding the Location Pane in the SCADA controllers summary may cause all flex stations to disconnect and reconnect.
1–85UMR49	Server – Alarm/ event	On the Alarm or Event Summary pages, when expanding the location list it closes before a location can be selected.
1–A0128OB	Server – Alarm/ event	"An error occurred on the server while processing the request" message is displayed if the operator is logs off while on the Event Summary Page.
1–9ZKZF57	Server – Alarm/ event	Acknowledging non TPS or CDA messages on a flex station will acknowledge the message in all consoles regardless of console acknowledgement settings.

7.4.13 Server – System Status

PAR	Function	Description
1-A282BWV	Server – System Status	Station failure alarm for the flex station is not suppressed when system alarms are in suppressed mode.

7.4.14 Server Displays – General

PAR	Function	Description
1-A4D7G2T	Server Displays – General	Migration frrom 430 to post releases Context menus and toolbars showing pictures with pink background.
1-3P81TQ9	Server Displays – General	Truncated Text at History Archiving page while doing Archiving.
1-A4C2V6V	Server Displays – General	Ethernet Status LED icons missing in CPM tab of Control Edge RTU.

7.4.15 Server – DSA and Point Servers

PAR	Function	Description
1-A6WB7P5	Server – DSA and Point Servers	Raising activities on an Experion server may cause an EBI Server that is connected via DSA to repeatedly disconnect and reconnect .
1-A6C2YJ1	Server – DSA and Point Servers	Requesting a list of parameters from an EHPM point can result in an increase in memory usage that may eventually cause performance to degrade .
1-B1GC6X7	Server – DSA and Point Servers	Unable to access EHPM combo point parameters over DSA .
1-AUUL5MM	Server – DSA and Point Servers	Dynamo will incorrectly report disabled alarms from CDA points if they are deleted and loaded from Control Builder.
1-ATP1W4Z	Server – DSA and Point Servers	Alarm and Limit Help from Dynamo cannot be seen in Experion, and certain special characters in help text will cause additonal issues.
1-9XG6FRF	Server – DSA and Point Servers	Limit Help is not displayed when Experion is integrated with DynAMo Operations Suite R211 and above.

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7.4.16   Server – Batch Unit Timeline

PAR	Function	Description
1–A1LRR37	Server – Batch Unit Timeline	Procedures and Unit Procedures will not appear in Timeline if Operation invokes a Phase in a sub-asset of the unti.
1–A1KQ8UV	Server – Batch Unit Timeline	Unit Timeline Past and Future minute configuration for Operators is applied reversed.
1–A27XV7L	Server – Batch Unit Timeline	Reference Batch reports are not available for selection in Unit Timeline if a procedural element in it has a tag name longer than 30 characters.
1–AAEX9FC	Server – Batch Unit Timeline	Cannot enter value for instruction message if a float data type with NaN value or a string data type.
1–B07LNH7	Server – Batch Unit Timeline	Station script error popup appears when Unit Timeline is called up if many units configured and many batches running.
1–A0W5W9X	Server – Batch Unit Timeline	The Unit Timeline and Procedure Explorer tree may have some missing elements after server failover.
1–9Z0WLB3	Server – Batch Unit Timeline	Optimization of network data sent for updates on Unit Timeline once open.
1–AXN1P81	Server – Batch Unit Timeline	Unit Timeline lanes on DSA subscriber may not show correct 'connection lost' indication if they were in use and the link to the publisher is lost.
1–B07K3L9	Server – Batch Unit Timeline	Some completed procedural elements may not reappear on DSA subscriber Unit Timeline after DSA is disabled and enabled.
1–AMEH9VX	Server – Batch Unit Timeline	When there is a batch phase delay, Unit Timeline may show an incorrect prediction on parent elements until a new phase starts.
1–A3C3QHP	Server – Batch Unit Timeline	Very rarely, Activity Summary may stop updating after a unit download from Control Builder or server failover.
1–B07NYU1	Server – Batch Unit Timeline	When DSA connection lost, a Timeline unit lane which is owned by the DSA publisher and currently acquired may get hidden.

7.4.17   Server – CDA Data and Notifications

PAR	Function	Description
1–9QC3TSJ	Server – CDA Data and Notifications	It is not possible for an application to determine when a controller priority change occurred.

7.4.18   Server – Electronic Flow Measurement

PAR	Function	Description
1–9ZFGMVD	Server – Electronic Flow Measurement	Configuring Liquid meter run leads in Alarms Event collection failure for Gas meter in Experion DNP3.

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7.4.19 Server – Event Archiving

PAR	Function	Description
1-APIZVGL	Server – Event Archiving	Elements missing from Unit Timeline bar and incorrect batch reports after a server failover.

7.4.20 Server – Engineering

PAR	Function	Description
1-8MH8KKL	Server – Engineering	Import failure when no filters are configured in the template.
1-AD38L6Z	Server – Engineering	Analog SCADA Point bias and scale configuration is cleared when point is downloaded.

7.4.21 Server – History or Trending

PAR	Function	Description
1-877JY7T	Server – History or Trending	Trend with tabular history does not retain column width trend window is resized.
1-A8YHEYJ	Server – History or Trending	Fix tool needed to remove invalid history assignments.

7.4.22 Server – I18N Infrastructure

PAR	Function	Description
1-A8QF01I	Server – I18N Infrastructure	Cyrillic characters are getting replaced by question marks in point script when you reopen script after downloading the point having Cyrillic characters in its point script.

7.4.23 Server – Installation and Migration

PAR	Function	Description
1-AYZ21X1	Server – Installation and Migration	History archive value is becoming 0 during patch uninstallation.
1-81KEA7L	Server – Installation and Migration	DNP3 SCADA custom fileIO settings not migrated from R400 to R432 , causing communication issues .
1-AMDAIYJ	Server – Installation and Migration	Migration copied EMSN migration data to Archives and Restored Archived folder .
1-B4VKE8D	Server – Installation and Migration	Incorrect email configuration shown after migration .
1-B0US0WZ	Server – Installation and	MSXML Security issue found in R510.1 in

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PAR	Function	Description
	Migration	MLServer.
1–A7G8ZYB	Server – Installation and Migration	Selecting the alarm help option from context menu of the point detail display may show an IE security pop up. This pop up may also be seen for some custom faceplates.
1–A63A6IX	Server – Installation and Migration	DSA points are deleted on remote servers during migration of local servers.
1–9X8LTFL	Server – Installation and Migration	After Installing R500.2 Server Patch, History archive directory is automatically changed to default path.

7.4.24 Server – ODBC Driver

PAR	Function	Description
1–9F6ITWR	Server – ODBC Driver	The PV value for bad points is returned as zero on an ODBC connection.
1–9V166PN	Server – ODBC Driver	ODBC Data collection fails for particular Event types with a annoying error popup message .
1–AXJSART	Server – ODBC Driver	Group membership is incorrectly checked when querying the event database via the ODBC Driver .
1–ARGP25B	Server – ODBC Driver	It is not possible to join the ODBC Driver Event2 and Comments tables as Event2 transactionid has been incorrectly defined as a character field .

7.4.25 Server – OPC Integrator

PAR	Function	Description
1–AUA5TY3	Server – OPC Integrator	Group can go into Marginal state unexpectedly due to a diagnostic timeout.

7.4.26 Server – Operator security

PAR	Function	Description
1–AX3CONV	Server – Operator security	Operator cannot modify AlarmLimits on default system displays when using APS on CStns.

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7.4.27   Server – OPC clients and servers

PAR	Function	Description
1–A2Y45XN	Server – OPC clients and servers	OPC AE client may receive multiple alarm instances for the same TPS point alarm condition upon a Refresh request.
1–AIOADDX	Server – OPC clients and servers	LocationTag is incorrectly set for write events when "Log OPC Server changes to the database as events" is enabled .
1–ALMTY7N	Server – OPC clients and servers	When requesting enumerated items through the Experion OPC Server, adding extra spaces before the /enum in the OPC ItemID may cause the parameter to be built incorrectly .

7.4.28   Server – other or unknown

PAR	Function	Description
1–8MI5ABH	Server – other or unknown	Appliance nodes are missing FTE status in their composite shape on the dashboard.
1–8NZM0Y9	Server – other or unknown	Command error status is not appearing in the dashboard for UCN nodes.
1–8NZOAQ5	Server – other or unknown	Auxiliary error status is not appearing for UCN nodes in the dashboard.
1–97I45FN	Server – other or unknown	UCN nodes on the dashboard are not displaying the FTE node in the composite menu.
1–AQXWL0J	Server – other or unknown	Loading UOC points gives "Server Capacity Error".
1–AE1SEPJ	Server – other or unknown	When "all distributed servers" is selected and one of the DSA servers hostname uses the Backup Control Center naming convention, file replication will show an error and not copy files for that replication record.
1–AD0G67J	Server – other or unknown	On systems in timezones that are ahead of GMT, changes to existing server scripts aren't applied when the script is committed.
1–A8W45H1	Server – other or unknown	DCT should collect FTE logs.
1–AANTHI9	Server – other or unknown	After failing over from primary to backup, Service Script Engine status remains enabled (green) even if the engine is disabled.
1–AHJTGF5	Server – other or unknown	Incorrect logging message shown when connection handles not available.
1–AT1JZPH	Server – other or unknown	[ATMOS] Leak size units using capital H instead of h.

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PAR	Function	Description
1-9T8276P	Server – other or unknown	After migration from Experion R500, some file replications entries may take an excessive amount of time to complete the file copies.
1-AHSEOO9	Server – other or unknown	Client applications using the Network API are sometimes unable to connect to server.

7.4.29 Server – PHD Tag Sync

PAR	Function	Description
1-A8DGV0X	Server – PHD Tag Sync	PHD will not be notified of items that are removed from history assignment.

7.4.30 Server – Redundancy

PAR	Function	Description
1-B3U7TVF	Server – Redundancy	Invalid Asset Profile in operator record can cause unexpected task termination in dual_ onsrv.exe.

7.4.31 Server – SCADA Interfaces

PAR	Function	Description
1-AL5PJND	Server – SCADA Interfaces	Unable to write to Moore APAC points post migration.
1-APMVNV9	Server – SCADA Interfaces	Systems with high rate of PV Algorithm processing can sometimes take a long time to establish server synchronization.
1-B4VKOPB	Server – SCADA Interfaces	Points on Moore APACS channel with more than 1 controller can show incorrect value.
1-A2CEOCH	Server – SCADA Interfaces	[Red-RTU] DNP3 communication fails for 15 mins after a Server failover.
1-9X13M17	Server – SCADA Interfaces	Unable to view any values from Bristol Babcock serial or terminal server connected devices because channel doesn't start up successfully.

7.4.32 Server – Scanning Subsystem

PAR	Function	Description
1-AJL7KJF	Server – Scanning Subsystem	Unable to debug DNP3 channel comms using the TRACE command.

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7.4.33   Server – TPS Interface

PAR	Function	Description
1-9ZYYNQF	Server –TPS Interface	Some status and configuration options are missing from the LCN and UCN node detail displays.
1-8NZOAQ5	Server –TPS Interface	Auxiliary error status is not appearing for UCN nodes in the dashboard.
1-ADOOXVL	Server –TPS Interface	On a TPS system, data on displays may continually toggle between good status and inverse video.
1-9CT9ZJ3	Server –TPS Interface	When the Experion system status alarm list is filtered by selecting a TPS node in the dashboard the platform block alarms related to that node may not show in the filtered alarm list.
1-9TG7QIB	Server –TPS Interface	Writing to the UCN device checkpoint setting appears to work but actually does nothing.
1-9AT6F1L	Server –TPS Interface	Sometimes on the LCN dashboard, EHPM nodes show as HPM nodes (and vice versa) and TCMI nodes don't show TCMI.
1-9TL662N	Server –TPS Interface	Power On status on LCN Status dashboard doesn't blink or show acknowledgment message.
1-9TKC4OD	Server –TPS Interface	Sometimes backup ENIM flashing as unacknowledged even though everything is acknowledged.
1-9TIPS2P	Server –TPS Interface	Composite button is showing only for backup UCN node.
1-9T4EQZJ	Server –TPS Interface	The first page of the ELCN SM dashboard only shows 52 nodes instead of 64, the rest of the nodes are on page 2.
1-9R7UJRR	Server –TPS Interface	The "Default system status dashboard" setting for operators and Stations may not show the automatically generated LCN and UCN dashboards in the list.
1-AYW92JZ	Server –TPS Interface	Points built to represent ELCN system management dashboard are being counted as licensed SCADA points which may prevent building of SCADA points.
1-B10V7FB	Server –TPS Interface	On an LCNP4 based ES-T (non-ELCN) some processes that should only run on an ELCN node incorrectly start up and then terminate unexpectedly which may degrade system performance.
1-A00QNC5	Server –TPS Interface	ELCN EPLCG, EHB, Redundant AM and SIMNIM/SIMEHPM nodes don't show an icon in the system status tree or system status dashboard.

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PAR	Function	Description
1–AD1L5IN	Server –TPS Interface	Incorrect FTE device index appears for all LCN nodes in the faceplate.
1–8NZM0Y9	Server –TPS Interface	Command error status is not appearing in the dashboard for UCN nodes.
1–ABLCR2D	Server –TPS Interface	The UCN node detail display shows a blank page for the general tab.
1–9SI9SLX	Server –TPS Interface	Redundant ELCN bridge node boxes may show cross mark on the LCN Status dashboard.
1–9O6NKXL	Server –TPS Interface	The context menu of the LCN NIM shape is missing the UCN Status item.
1–A0OOOXB	Server –TPS Interface	The device icon for the ELCN dashboard shapes does not indicate if the node is virtual or not.
1–9T414HH	Server –TPS Interface	History Status is not updating correctly on the LCN shape and the LCN node faceplate.
1–9X7FVQ5	Server –TPS Interface	TCMI backup node is always showing as Unknown in UCN dashboard.
1–9TKK41D	Server –TPS Interface	On LCN System Status dashboard, backup node is always showing '?' in the node status in Status pane.
1–9TL3FS1	Server –TPS Interface	When the multi-load operation is performed it is not showing the load status (Loading\Completed\Failed) in sequence for the nodes.
1–9TKG60L	Server –TPS Interface	No way to initiate Event recovery command from Experion.
1–A74AW17	Server –TPS Interface	Dashboards are not created for SIM NIMs.
1–9ZY3TMT	Server –TPS Interface	Peripheral ICON is appearing on dashboard for nodes that are OFF or have an "OK" peripheral status.
1–AXC97KF	Server –TPS Interface	Viewing the LCN Status dashboard on an LCNP4 based ES-T (non-ELCN) shows all the dashboard shapes with bad status.
1–9X36CXP	Server –TPS Interface	Multi load indication is not shown on the LCN Status dashboard.
1–A00S40T	Server –TPS Interface	UCN network faceplate displays incorrect heading for UCN cable status and does not display all required status information.
1–B4RUE9L	Server –TPS Interface	Script error occurs when viewing some pipeline graphic shapes.
1–AHWEBRZ	Server –TPS Interface	System context menus items (detail and assoc display, trend, group, etc) disabled under view only.
1–AZOTVG1	Server –TPS Interface	When using a Z90 Thin Client on an

PAR	Function	Description
		Experion system Station can disconnect after a network disruption.
1–A8W7AVX	Server –TPS Interface	EFM, Op Apps and Point Gen Quick Builder components will not load correctly in Quick Builder.
1–AXMDM29	Server –TPS Interface	Missing batch ID and status on Timeline Unit Card if no Phase has started and no Reference Batch selected.
1–AW5MEYT	Server –TPS Interface	Generic Data Access Server can sometimes grow in memory and cause DSA or Console Station disconnects.
1–B2FGFK7	Server –TPS Interface	Redundant Node Primary FTE Index may show incorrectly in status pane for redundant LCN Nodes.
1–B2FXYGZ	Server –TPS Interface	History collection enable/disable option is not available for HM nodes on the detail display.
1–9YACR8B	Server –TPS Interface	Non–ELCN UCN nodes on the dashboard may incorrectly show an icon in their shape.
1–9ZJA2QF	Server –TPS Interface	Not able to see or connect to "Server" and "System" target in Configuration Studio when IEC61850 is not licensed.
1–9ZWT0N3	Server –TPS Interface	The status pane on the system status display may show red dashes for FTE devices.
1–9ZWT0NX	Server –TPS Interface	The UEA ENIM node detail display has some minor text issues.

7.4.34 Notification Presentation

PAR	Function	Description
1–AY26WNT	Notification Presentation	Optionally allow enlarged status bar indicators in Station when using light and dark theme.

7.5 PDF Documentation

7.5.1 PDF Collection

PAR	Function	Description
1–A6BLJG3	PDF Collection	XPS files delivered with R510 UTC media have few formatting issues.

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CHAPTER

8

SPECIAL CONSIDERATIONS

This chapter provides the details of special considerations.

8.1 SafeView Configuration for Experion User Assistance

To enable the integration of Experion User Assistance as a SafeView object in multi-window Station, add the following SafeView window specification properties:

```
window UserAssistance

description = "Window to capture Experion User Assistance browser";

match = module("?*userassistancebrowser.exe");

position = 0, 0;

size = 800, 800;

closable = yes;

placeholder = yes;

maximizable = yes;

end window
```

8.2 Compatibiltiy of Expansion Processor Module (EPM) with UOC

Expansion Processor Modules, EPM(900SP1-0100), received from the factory are pre-loaded with a firmware version which is not compatible with the R511 UOC. Prior to deploying the EPM in a running UOC, the rotary switches in EPM need to be set as per UOC configuration and it must be upgraded using the EPM firmware that was provided with the Experion R511 media.

For more information on upgrade procedures, refer to *UOC User's Guide*.

8.3 Configuring On-Demand Connect for EIP Blocks

When the On-demand connect feature is configured for EIP blocks, the user must provide the physical security/protection for the network connection to the EIP devices, when there is no skid/equipment present at the docking station.

8.4 Virtual UOC-50ms, running under VMWare Fault Tolerance, reports "CEE Cycle Overruns" alarm

PAR

1-B1PXYOI

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Scope of Impact

Affects Virtual UOC deployed at 50ms base execution period and running under VMWare Fault Tolerance.

Abstract

Virtual UOC-50ms, running under VMWare Fault Tolerance, reports "CEE Cycle Overruns" alarm.

Consequences

Under heavy load, VMWare Fault Tolerance may cause a VirtualUOC-50ms to miss three (3) of its 50ms execution periods, resulting in the "CEE Cycle Overruns" alarm.

Recovery

The Virtual UOC-50ms should recover immediately however, due to alarm reporting heuristics, the alarm will not return-to-normal for 8 seconds.

Workaround

Reduce control workload of the Virtual UOC-50ms, removing the Virtual UOC 50ms from VMWare Fault Tolerance, or consider using Virtual UOC deployed at 500ms base execution period instead.

KNOWN ISSUES

This chapter provides information about known issues and workarounds.

9.1 Common components

9.1.1 Experion – TPS Infrastructure

PAR	Function	Description
1–4K5UHS7	Experion – TPS Infrastructure	**Error Indication**: Mode is not changing from group display in station for TPS faceplates in EST for Microsoft Windows 10. **Description**: Mode is not changing from group display in station for TPS faceplates in EST for Microsoft Windows 10. **Recovery**: None. **Workaround**: Deselecting Classic Faceplate selection for group display configuration, this is a common Configuration for all displays.

9.1.2 Network–FTE

PAR	Function	Description
1-9L7N7TP	Network–FTE	**Error Indication**: Slave disconnect alarm reported from PCDI master sporadically even though slave is healthy. **Description**: Slave disconnected alarm is reported sporadically on stable run of PCDI master blocks even if slave is healthy or there is no physical disconnection. This happens when a request gets timed out even though slave has responded to request. **Recovery**: System recovers automatically from the error without any intervention. PCDI master reconnects to slave after connection fail and

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PAR	Function	Description
		continues communication.
		Workaround:
		1. Have maximum of 250 messages/sec for Modbus tcp.
		2. Configure REQRTRY parameter in "Slave Configuration" tab for PCDI master block to value 3.
		Note: REQRTRY parameter specifies number of retries master block will do before dropping the connection if a request gets timed out. Default value is 1 and max value is 10. The recommended value of 3 is based on testing done with a configured message rate of 250 messages / sec. However, a greater value could also be tried if application demands or to work around the issue, if it persists.

9.1.3 Network–Equipment and Support

PAR	Function	Description
1–AR63W71	Network–Equipment and Support	**Error Indication**: Some nodes are randomly losing connectivity to the L3 Domain on a stable run **Description**: Known CISCO bug against the 3850 switch. **Recovery**: When this problem is seen clear the arp cache on both the primary and standby router or or reboot the primary router. **Workaround**: Same as Recovery.

9.1.4 Signon Manager

PAR	Function	Description
1–4T1DB5N	Signon Manager	**Error Indication:** Signon Manager does not provide correct access. **Description:** Signon Manager does not provide correct access when the PC Universal Station is used both locally and remotely. **Recovery:** Use the PC Universal Station either locally or remotely, but not in both modes. **Workaround:** If the PC Universal Station is to be used locally, then it is to only be used locally; if the PCUS is to be used remotely, then it is to only be used remotely.

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PAR	Function	Description
		Setting up a PCUS to be used both locally and remotely is not currently supported.
1–5X96F9U	Signon Manager	**Error Indication:** New ACS card readers' functionality. **Description:** New ACS card readers do not function with MFA or Signon Manager. **Recovery:** Users will have to continue with existing card readers or use the Lumidigm fingerprint reader. **Workaround:** None. Users will have to continue with existing card readers or use the Lumidigm fingerprint reader.

9.1.5   System Management

PAR	Function	Description
1–MNAFT7	System Management	**Error Indication:** Server data connection is lost. **Description:** Server lost data connection to System management by launching the L2.5 switch display from the station. Issue is caused by slow response from the switch. **Recovery:** Switch to another display to continue working, and retry the switch display later. **Workaround:** None.
1–AWCO8MX	System Management	**Error Indication:** [PCT]Cisco Switch Index reports either "NULL / ????" in system alarm summary. **Description:** This anomaly could also cause Cisco switch port index to report with either NULL/????, if in case of any fault at the switch port end. Because of which customer couldn't identify in which port of the switch, fault was reported in the system alarm summary. This is a functional issue. **Recovery:** None. **Workaround:** None.
1–B36FTWP	System Management	**Error Indication:** Multiple crash dumps are created during the Migration. **Description:** Multiple crash dumps are created during the Migration. **Recovery:** None.

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PAR	Function	Description
		Workaround: This issue does not have any functional impact, it can be safely ignored.

9.1.6   System Management Runtime

PAR	Function	Description
1–B660SZF	System Management Runtime	**Error Indication:** Sometimes the Experion PKS R511.1 Migration without OS change fails during Experion Uninstallation step and halts the installation. **Description:** : The migration of ELCN HM and EST failed at Experion Uninstall step, showing "failed from maintenance tool" error. **Recovery:** Perform a Reboot of the node and after reboot restart the Experion PKS installation. **Workaround:** None.

9.1.7   Tableview

PAR	Function	Description
1–A1NNRN9	Tableview	**Error Indication**: Single Step & safe button is disabled while using Table view. **Description**: Single Step & safe button is disabled while using Table view. **Recovery**: None. **Workaround**: None.

9.2   Controllers and Tools

9.2.1   C300 Controller

PAR	Function	Description
1–SJ4W66	C300 Controller	**Error Indication:** C300 synchronization fails. **Description**: After loading a CM containing DO channels connected to DEVCTL blocks, synchronization breaks between C300s when the IOM containing the loaded DO channels does not exist.

PAR	Function	Description
		Recovery: The C300 Synchronization will restart automatically and complete successfully.
		Workaround: To prevent this situation, do not load a CM containing DO channels connected to DEVCTL blocks unless the IOM is present.
1–B0Y4TV7	C300 Controller	**Error Indication:**Unknown Protocol Message counter is incremented slowly.
		Description: The Module is receiving a message it is not intended to handle. This message appears to be the newer IGMP3. The firewall passes it but the network stack rejects it. Applies to C300, FIM4, FIM8, PGM, EHPM, EPNI2, EHB, ETN.
		Recovery: None.
		Workaround: None.

9.2.2 Control Firewall

PAR	Function	Description
1–6HGGLK5	Control Firewall	**Error Indication:** This is an enhancement. If approved, the modification will only be made to the new CF9 (HW Rev D).
		Description: Add PTP rate limit to CF9.
		Recovery: Reduce PTP traffic.
		Workaround: None.
1–B45A1A0	Control Firewall	**Error Indication:** ""RX Dropped"" parameter for Uplink Port in Statistics Window shows non-zero value.
		Description: The ""RX Dropped"" Parameter indicates the number of packets which are discarded due to Network conditions.
		Recovery: None.
		Workaround: None.

9.2.3 CDA-Embedded

PAR	Function	Description
1–	CDA–	**Error Indication:** Uncommanded Shutdown of ACE,

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PAR	Function	Description
AOS6VC9	Embedded	Windows application event log shows RCOA WDT for ACE process at time of shutdown, and CDASP process is still running.
		Description: When there are not enough resources on the host computer for CDASP to process communication deterministically the ACE intentionally terminates to force peer strategies to shed instead of working with stale or uncertain values.
		Recovery: Restore checkpoint and activate strategies. Determine reason for computer resource issue. Typical are CPU over utilization because of under allocation or consumption by non-critical processes Also can be caused by virus scanner configuration or missing exclusions.
		Workaround: None.

9.2.4   ControlEdge UOC

PAR	Function	Description
1-BAXM0DH	ControlEdge UOC	**Error Indication:** Control will shed and switch over occurs.
		Description: During stable RUN, Primary UOC detect the loss of communication with the EPM and the IOM's under this EPM will sheds the IO data to fail safe values and switch over triggers after 10 seconds. New primary UOC will establish the communication with the EPM and IOM's.
		Recovery: Switch over is the automatic recovery.
		Workaround: Switch over is the automatic workaround .

9.2.5   CF– Control Functions

PAR	Function	Description
1–ASOCK0B	CF–Control Functions	**Error Indication:**The HB block does not obey the ""Force disable transition low"" (FDL) command when in Lathced mode of operation.
		Description : The HB block does not obey the ""Force disable transition low"" (FDL) command

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PAR	Function	Description
		when in Lathced mode of operation. Even when FDL is ON, it allows the output (Y) to be changed to OFF. This behaviour is observed in both Auto/manual mode. **Recovery:** None. **Workaround:** None.

9.2.6   Checkpoint

PAR	Function	Description
1–B5R5Z85	Checkpoint	**Error Indication:**M&I]Checkpoint restore of controller does not work as controller doesn't list in list of nodes. **Description :** M&I]Checkpoint restore of controller does not work as controller doesn't list in list of nodes. **Recovery:**None. **Workaround:**None.

9.2.7   Control Functions– Continuous

PAR	Function	Description
1–7HX0PMR	Control Functions– Continuous	**Error Indication:** User cannot browse EPC block pins. **Description**: User can type the EPC block pin names, but the cannot browse them. **Recovery:** None. **Workaround:** None.
1–8RG95W9	Control Functions– Continuous	**Error Indication:** [SFT]in PSOS process and non–process parameter values are not getting updated. **Recovery:** Uninstall PSOS from "Control Panel\All Control Panel Items\Programs and Features" and then manually install PSOS. **Workaround:** None.
1–LU37LJ	Control Functions– Continuous	**Error Indication:** The user may observe that some activities that he has created do not show

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PAR	Function	Description
		up in the activity summary display. The same activity detail display maybe updated from multiple activities which would cause incorrect or confusing data to be presented.
		Description: Scenario: - RCM_1 is running and it is acquired (either by another recipe or an activity) - RCM_2 is trying to acquire RCM_1 (RCM_2 is in RCM_1s arbitration queue, or listed as an unmanaged conflict). - Idle->Cold start the controller. - Command RCM_1 to start. - RCM_1 will reuse its Activity ID. **Recovery:** There are no user steps for recovery. Once RCM_1 is run a second time after the cold start, the problem will correct itself. **Workaround:** Do not idle the controller when RCMs/SCMs are not in a terminal state. I.E. Do not idle the controller when RCMs are in the running state.
1-AY3G963	Control Functions- Continuous	**Error Indication:** Simatic modules connected to Profibus Interface Module does not update values in CM loaded in C200E/UOC. **Description:** Simatic modules connected to Profibus Interface Module does not update values in CM loaded in C200E/UOC. **Recovery:** Delete the Simatic IO blocks and use generic IO channel blocks instead to get process values. **Workaround:** Use Generic IO channel blocks instead of Simatic channels to get basic process data.
1-B2EABBH	Control Functions- Continuous	**Error Indication:** When the rate of change of the selected inputs is greater than the 'Rate of bumpless rate' (PVRATE) then there is deviation. **Description:** The current functionality limits the rate at which the PV can change. If the newly selected input starts moving quickly while the

PAR	Function	Description
		ramp is active, this movement does not make it to the SIGNALSEL.PV output.
		Recovery: None.
		Workaround: Set PVRATE = Nan.

9.2.8   Control Functions- Batch

PAR	Function	Description
1-3IJE1AV	Control Functions- Batch	**Error Indication:** C200E platform may experience a CEE cycle overrun and cancel of Control Recipe (CR) execution in a base cycle.
		Description: The problem occurs on C200E platform when a base cycle is loaded with Master Recipes (MRs), Recipe Control Modules (RCM), Sequence and Control Module (SCM) and Control Modules (CMs). Then during execution of control application which may create many instances of CRs from an MR. CRs execute in the same base cycle as the MR. Processing load from SCMs, RCMs, CMs and CRs could overload a CEE base cycle resulting in cancel of CR executions and may even lead to a CEE Cycle OverrunCancelled CR execution resumes in subsequent base cycle based on Period and Phase configuration of MR.
		Recovery: Following steps may be required:- Better load balancing of MRs- Dedicate base cycles only for MR.
		Workaround: None.
1-5P545LL	Control Functions - Batch	**Error Indication:** Class based recipes over multiple C300's with indirect addressing fails the execution of the steps and transition.
		Description: Expressions using Indirect Referencing over peer C300s does not work and hence results in failure of Step/Transition execution.
		Recovery: None.
		Workaround: Reconfigure the strategies to be within the same controller.
1-9XID3Q9	Control Functions - Batch	**Error Indication:** Activity creation fails with error "CEE Unable to store new Activity".
		Description: When a user or Application attempts to create an Activity, Activity creation fails with error "CEE

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PAR	Function	Description
		Unable to store new Activity".
		Recovery: Ensure no server wide event regeneration and CDA disconnects during Activity creation.
		Workaround: For MES applications, implement retry mechanism to create activities after a timeout with Experion Batch API. For user created activity operations, ensure no event regenerations on the server while creating activities on a controller; Retry Activity creation.

9.2.9   Control Library

PAR	Function	Description
1–6SDDS6R	Control Library	**Error Indication:** Database query execution error on saving EtherNet/IP template/phase block/map block.
		Description: The issue is a Database query execuion is reported when user try to modify existing parameter and save the template. The occurs due to update query which send the duplicate ParamID for updating the parameter.
		Recovery: None.
		Workaround: None.

9.2.10   Control Builder

PAR	Function	Description
1–3S1VMJ7	Control Builder	**Error Indication:** Control builder fails while trying to create MAP block.
		Description: Control builder fails while trying to create MAP block.
		Recovery: Reopen control builder. Clear the lock on the created MAP block if there is any.
		Workaround: None.
1–AUHJAWD	Control Builder	**Error Indication:** Control Builder Crashes often during Runtime.
		Description: Control Builder crash issue can be observed sometimes when control builder is left open overnight.

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PAR	Function	Description
		Recovery: None.
		Workaround: Clear the logs if any strategies are opened in monitoring side then Relaunch it. Please close the Control builder when the Operations are done and then Launch it when ever required."
1–AXNH3DH	Control Builder	**Error Indication:** The Server migration fails with the error 10004 during the 'Restore Control Strategies' step. In the Engineering Tools Log, similar entries will be observed.
		OPMWizDlg::ErServerOPDBMigrate() – ErServer Template addition of EPKSOperationalDB : Failed the command on erserver.exe
		Description: The 'Restore Control Strategies' step fails Duplicate entries found on strategy.
		Recovery: None.
		Workaround: The duplicate entries have to be removed from the pre–migrated ERDB and migration has to be done again. Please contact TAC for support to remove the duplicate entries."
1–AXT69FV	Control Builder	**Error Indication:** Alias information get deleted when change parent operation is performed on SCM instances with Alias information.
		Description: Create SCM template with Alias, instantiate the SCM template and define few aliases in the instance also.Perform change parent operation by selecting System::SCM as new parent. Upon successful change parent operation, all the aliases presented on the particular SCM instance will be lost.
		Recovery: None.
		Workaround: None.
1–8R3YZTF	Control Builder	**Error Indication:** After Automated Device Commissioning Rename, there will be an error message on the channel indicating that the device rename was not successful, and to use a handheld device for renaming the device.
		Description: This issue is seen for few devices and occasionally. All the layers in Automated Device Commissioning rename flow are successful, and the device acknowledges that it could write the

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PAR	Function	Description
		new name given to it. But the read api, still returns the old device name.
		Recovery: Use a handheld device in such cases.
		Workaround: Use a handheld device or replace the device in that position.
1–9PMMA5N	Control Builder	**Error Indication:** QVCS Revert Operation of a Block reverts/modifies dependent block but the version number of the dependent block doesn't get changed.
		Description: 1. Assign a Channel/IOPOINT to an IOModule say IOM1 and check in the IOM1 (Version 1) and create one more IOModule IOM2 and check in the IOM2(Version 1).
		2. Now checkout both IOMs IOM1 and IOM2 and move the Channel/IOPOINT from IOM1 to IOM2 and check in both the IOM1 (Version 2) and IOM2 (Version 2).
		3. Now perform Revert operation on IOM1; Now IOPOINT/Channel moved from IOM2 to IOM1 and the version of IOM1 changed to Version 1. So IOM2 also reverted to Version 1 state but the version number of IOM2 doesn't get changed. It is still in Version 2 which is not correct.
		Recovery: None.
		Workaround: None.
1–A4C83G3	Control Builder	**Error Indication:** Control Builder becomes non–responsive when selecting a container on Monitoring Containment TreeView.
		Description: While selecting the container, the logic iterates through all the child blocks from container CM to enable/disable operations applicable for the selected item in monitoring side. When the selected CM contains more CMs, it iterates for all level of children to fetch children states for validation, that leads to Control Builder not responding.
		Recovery: None.
		Workaround: As a workaround, select Root in Containment View and click only plus (+) sign to expand the container.

9.2.11   Control Builder–Configuration Form

PAR	Function	Description
1-4SZ9242	Control Builder-Configuration Form	**Error Indication:** This error is seen upon executing the below mentioned steps. 1. Configure C300 controller along with UIO1 or UIO-2 or DO module. 2. Configure few channels as DO channel from spare channel. 3. Configure CM and drag DOREF blocks to it. Refer DO channels to REF block. 4. Expose onpulse or offpulse or PWM block pin to DOREF block and keep DO type as a "Status". 5. Click OK. **Description:** No validation error prompted for onpulse, offpulse and PWM when DOTYPE=Status and DOREF blocks used. Also reproducible with UIO-1 and Series C DO module. **Recovery:** Change the parameter value and try again. **Workaround:** None.
1-4V5Q9HJ	Control Builder-Configuration Form	**Error Indication:** 1. Loaded C300 and loaded the strategies belongs to C300. 2. Activated all the strategies in monitoring side. To test RRR set the CEE STATE option in C300 CEE as WARMSTART. Then for all the CMs started setting the CEERESTART option as "followCEE". It was observed that we are able to set it for few CMs(6-8 CMs) but when we set for 9/10th CM CB fails. This is seen every time when we run this test. **Description:** Control Builder fails when CEERESTART is set in the CMs. **Recovery:** Close CB and reopen again. **Workaround:** None.
1-50QTM84	Control Builder-Configuration Form	**Error Indication:** There is no specific steps to arrive at this issue. **Description:** Database query execution error dialog box is shown in few scenarios occasionally.

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PAR	Function	Description
		Recovery: Retry the operation. If the problem still exists, please close control builder and try again. **Workaround:** None.

9.2.12 Control Builder– Chart

PAR	Function	Description
1-84A6M3P	Control Builder-Chart	**Error indication**: Following error is presented when clicking on Step Output expression hyperlink: Entry does not exist [EXPKS_E_CL_ENTNOEXIST (6L.101.10020). **Description:** Depending on the length and position of the parameter references in Step Output expressions, it is possible for the corresponding hyperlinks to be shown with ellipses (...) and stop working as expected. The Transition Condition expressions were fixed but not the Step Output expressions. **Recovery:** No recovery necessary as issue is only in presentation layer. **Workaround:** Resizing the cell containing the expression may fix the issue under certain conditions not 100% of the time.

9.2.13 Control Builder-Fieldbus

PAR	Function	Description
1-9AA0Q6Z	Control Builder-Fieldbus	**Error Indication:** FF Device import failed during DBMigration showing " No category defined for parameter VERSION". **Description:**1. Import FF DD files from different vendors to database and ensure basic functionality works fine. 2. Assign IO reference blocks for migration. 3. Perform R500.2 to R510.1 C1 TP4 server B migration. 4. Observation is DBMigration wizard plugin fails to migrate with " Some blocks failed to import error. IXP error log shows: (IXP_ERDB) CDXDEFXml::FormParamCategoryMap : No category defined for parameter VERSION (IXP)(DP):bt_ixpcmn.cpp 1373 Error in Reading XML file

PAR	Functi on	Description
		(IXP)(DP):bt_ixpcmn.cpp 1299 Definition/CriteriaDefinition [0]/DEFXMLUpdateCriteria
		Recovery: Since the issue is with the TRANSDUCER block, the modified DEF XML which is attached in the Siebel can be replaced with the existing DEF XML in the system.Steps to be followed.
		1. Open Command prompt in Administrator mode
		2. Go to C:\temp\EIM-CONTROLS.DCM-FF-D_0101\EIM-CONTROLS.DCM-FF-D_0101.TRANSDUCER_22C0\
		2. Replace the TRANSDUCER_22C0.DEF.XML with the file attached in Siebel.
		3. Go to the registry Key HKEY_LOCAL_ MACHINE\SOFTWARE\Wow6432Node\Honeywell\ProgramD ata\Engineering Tools\IXPort\BlockTypeImport. Note down the current value and replace it with 1.
		4. Run ixptool ip "C:\temp\EIM-CONTROLS.DCM-FF-D_ 0101\EIM-CONTROLS.DCM-FF-D_0101.TRANSDUCER_ 22C0\TRANSDUCER_22C0.DEF.XML" command. The import will be completed successfully.
		5. Replace the registry key value with original value.
		Workaround: If there are no instances of the FF template 'EIM-CONTROLS.DCM-FF-D_0101', the template can be deleted from the pre migrated database before performing the database migration. This will ensure there is no failure during database migration. If there are instances of the FF template, please follow the recovery procedure.
		Workaround 1:
		If there are no instances of the FF template 'EIM-CONTROLS.DCM-FF-D_0101', the template can be deleted from the pre migrated database before performing the database migration. This will ensure there is no failure during database migration.
		Workaround 2:
		If there are instances, since the issue is with the TRANSDUCER block, the modified DEF XML which is attached in the Siebel can be replaced with the existing DEF XML in the system.
		Steps to be followed.
		1. Open Command prompt in Administrator mode

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PAR	Function	Description
		2. Go to C:\temp\EIM-CONTROLS.DCM-FF-D_0101\EIM-CONTROLS.DCM-FF-D_0101.TRANSDUCER_22C0\
		3. Replace the TRANSDUCER_22C0.DEF.XML with the file attached in Siebel.
		4. Go to the registry Key HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Honeywell\ProgramData\Engineering Tools\IXPort\BlockTypeImport. Note down the current value and replace it with 1.
		5. Run ixptool ip "C:\temp\EIM-CONTROLS.DCM-FF-D_0101\EIM-CONTROLS.DCM-FF-D_0101.TRANSDUCER_22C0\TRANSDUCER_22C0.DEF.XML" command. The import will be completed successfully.
		6. Replace the registry key value with original value.

9.2.14   Control Builder-Load

PAR	Function	Description
1-8HFAR5J	Control Builder-Load	**Error Indication:** No error is displayed but broken connections can occur in the CM either receiving incorrect signals or not receiving signals from the corresponding function block. **Description**: Broken connection issues can occur in 2 scenarios: Scenario1: Export of CM followed by Block deletion, import back and reload only the source CM. Scenario2: Block deletion followed by adding new block and reloading only source CM. **Recovery**: User can recover from the issue by downloading all the referenced control modules (SCMs and RCMs) which have connections to the modified control module. **Workaround**: Whenever you perform any of the specified operations in 2 scenarios listed in description, you must load the modified CM along with all the referenced CM/SCMs along with it to avoid any broken connection issue. FINDTAGSTOLOAD.exe tool can be used after performing engineering operations like import, export, change parent, deletion of blocks, and so on to know the list of CMs that needs to be loaded to avoid broken connection issue.

9.2.15   Control Builder–Load/Upload/Update

PAR	Function	Description
1–4KSJ8TD	Control Builder–Load/Upload/Update	**Error Indication:** Control builder tree view shows incorrect CM Name against the channel in Monitoring side even though CM is not loaded. **Description:** When CM and channels are loaded together, if CM load fails due to some reason, then IO channels which got loaded successfully to monitoring side show the CM name in the tree view and in the form which they were associated to. But since CM's are not loaded successfully it should not display the CMname against the Channels. **Recovery:** Reload the CM which had failed earlier. **Workaround:** None.
1–68IJJAB	Control Builder–Load/Upload/Update	**Error Indication:** Upload and update to project fails with an error "Overwriting loaded blocks is not allowed in systems using Fieldbus" for reference blocks configured with channels. **Description:** Upload and update to project fails with an error "Overwriting loaded blocks is not allowed in systems using Fieldbus" for reference blocks configured with channels. This behavior is seen in AI, AO, DI, DO reference blocks configured with corresponding channels. **Recovery:** Perform UploadUpdate operation on the IO module itself such that monitoring side changes gets updated to Project side. **Workaround:** To prevent from this situation, use Upload/Update on IOM.

9.2.16   Control Builder–Point Picker

PAR	Function	Description
1–A82YJPN	Control Builder–Point Picker	**Error Indication:** ML PLC Channel fails to communicate with ML Server.

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PAR	Function	Description
		Description: ML PLC is not communicating in Experion R510. Recovery: None. **Workaround:** Remove the blank space for **mngr** password.

9.2.17   CEE-Database

PAR	Function	Description
1-VPKU61	CEE-Database	**Error Indication**: DP_NUMBER parameter is not visible on monitoring side of ISO_5167_DUAL block. **Description**: DP_NUMBER parameter is not visible on monitoring side of ISO_5167_DUAL block. There is no harm to control. Internally DP_NUMBER parameter takes intended value. **Recovery**: None. **Workaround**: None.

9.2.18   ControlEdge UOC- Platform

PAR	Function	Description
1–B7NFNFR	ControlEdge UOC–Platform	**Error Indication**: During UOC retention save, the control processing and communication processing freezes for up to 40 seconds. **Description**During retention data save, controller outputs hold, but no control or communication processing is performed. The duration of the freeze is 40 seconds or less. An overrun count gets added to the cycle overrun statistics. Display or peer data access with the controller performing retention save is delayed for the duration of the retention save that may result in: 1. Server/Console Connection TIMEOUT alarms with the controller 2. loss–of–control related alarms for peer connections with the controller performing the retention save.

PAR	Function	Description
		Recovery: After the retention save is complete, control and communication processing automatically resumes. **Workaround**: None.
1–B0C24TN	ControlEdge UOC– Platform	**Error Indication**: Redundant controller transient loss-of-sync after 15 days of operation. **Description**During a stability test run, several redundant UOCs dropped sync with Partner Private Path Disconnected reason. The controllers were automatically re-synchronized 3 minutes later. **Recovery**: The controllers automatically return to the synchronized state. **Workaround**: None.

9.2.19 CEUOC– Platform–Virtual

PAR	Function	Description
1–9W77YI9	CEUOC–Platform–Virtual	**Error Indication**: VirtualUOC-50ms with remote ControlEdge I/O may report loss of control on first-time VMWare FT switchover. **Description**: A VirtualUOC-50ms configured with VMWare Fault Tolerance (FT) protection and connected to one or more ControlEdge Expansion Processor Module (EPM) may raise an alarm indicating loss of control over I/O under the EPM on the first switch–over induced by a VMWare FT fault condition. **Recovery**: The VirtualUOC-50ms will recover automatically within 200ms. **Workaround**: Perform a "Fault Tolerance->Test Switchover" of the VirtualUOC-50ms Virtual Machine (VM) in VMWare vCenter after it has been configured for VMWare FT protection and before it is running on control.
1–B7H9A61	CEUOC–Platform–Virtual	**Error Indication**: The virtual UOC's Retention Data Attendance (RETENDATAATTND) parameter remains set to the Absent value after an attempted retention save.

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PAR	Function	Description
		Description: The virtual UOC was designed to support the Retention Startup function identical to the UOC controller. However, due to a software anomaly, the virtual UOC is not able to perform retention save. This PAR is planned to be resolved in post–R511.1.
		Recovery: None.
		Workaround: None.

9.2.20   Control Builder – Automated Device Commissioning

PAR	Function	Description
1–B306D7V	Control Builder – Automated Device Commissioning	**Error Indication:** Control Migration fails for controllers having Control Edge PLC point connection.
		Description: During Controller OPM or freeze and switchover of Experion controllers, checkpoint rebuild might fail with ""Failed to construct relative path error."" due to the presence of Control Edge PLC points in the controller.
		Recovery: Work with TAC before the Server migration starts.
		Workaround: None.
1–8R3OZRR	Control Builder – Automated Device Commissioning	**Error Indication:** During Automated Device Commissioning work flow, the Configure Device step fails with the <Error>.
		Description: The above error might be observed when there is simultaneous execution of HART Point Parameter Access functionality on the same Experion cluster where Automated Device Commissioning was executed.
		Recovery: The recovery mechanism will be to close all the internal clients (Displays/Trend/History/OPC Clients) which performs HART Point Parameter Access functionality. Then after considerable wait time of 10 minutes, perform the Automated Device Commissioning workflow.
		Workaround: The Automated Device Commissioning workflow needs to be done when

PAR	Function	Description
		there is no HART Point Parameter Access functionality is in usage in an Experion cluster.
1–9T3EBSR	Control Builder – Automated Device Commissioning	**Error indication**: Device Rename failed for E+H_ Cerabar S. **Recovery:** None. **Workaround:** Use handheld device or FDM application to rename the device.
1–B0Y4TZD	Control Builder – Automated Device Commissioning	**Error indication**: CB crashes, when Automated Loopcheck is performed in PET with Excel 2016 **Description:** If Excel 2016 is installed and Automated loopcheck is executed for more than 1 device at a time, CB crashes. **Recovery:** No Recovery. **Workaround:** Use Office/Excel 2010 to perform Automated Loopchecks.

9.2.21   Control Library

PAR	Function	Description
1–6SDDS6R	Control Library	**Error Indication:** Database query execution error on saving EtherNet/IP template/phase block/map block.. **Description:** The issue is a Database query execution is reported when user try to modify existing parameter and save the template. The occurs due to update query which send the duplicate ParamID for updating the parameter. **Recovery:** None. **Workaround:** None.

9.2.22   Configuration Studio

PAR	Function	Description
1–B3OEL0D	Configuration Studio	**Error Indication**: Associated param should be applicable only for UDSP Parameters of type 'Scanned'. **Description:** Associated Parameter is only meant to work for UDSP parameters that are of

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PAR	Function	Description
		type Scanned (Analog, Status or String). For all the other Link Type the "Associated Param" parameter should not be used. **Recovery**: Only configure Associated Parameter for UDSP parameters of Link Type Scanned – Analog, Scanned – Status, Scanned - String. **Workaround**: Not applicable.
1–B7916VB	Configuration Studio	**Error Indication**: Unable to add bulk UDSP parameters via "Add Bulk Scanned" option. No error message for this shown to the user. **Description**: In "User Defined" tab of Analog & Status Point, "Add Bulk Scanned" fails to add the UDSP Parameters. **Recovery**: Please follow the workaround. **Workaround**: 1. Add a single UDSP parameter by clicking on "Add" button and select Link type property as "Scanned - Analog" or "Scanned - Status". 2. Select the newly added parameter and do the required configurations. 3. Use "Copy Parameter" and "Paste Parameter" options to create similar new UDSP parameters.

9.2.23   Experion Batch Manager–Tools

PAR	Function	Description
1-9XLD7Z3	Experion Batch Manager–Tools	**Error Indication**: Error is displayed is "Error parsing the XML file.The XML file is not valid or not as per schema" **Description**: Error is seen while importing the phase block. [EBS] Unable to view an imported phase block config with enum set after import with overwrite option **Recovery**: None. **Workaround**: 1. Export the phase block 2. Rename the Exported .def.xml file with the phase block name(blockname.def.xml file) 3. Import with overwrite.

9.2.24   Experion Batch Manager– Controller

PAR	Function	Description
1–3QM82LT	Experion Batch Manager–Controller	**Error Indication**: A step block displays an error of 2447 when trying to set a unit. **Description**: You are unable to select a unit. **Recovery**: Abort the strategy. **Workaround**: None.
1–B4F77B1	Experion Batch Manager–Controller	**Error Indication**: Individual parameter names under "Parameters" of call out display do not get updated with the new name. **Description**: – When a user modifies the parameter names of Formula and Report parameters in Recipe Steps or BREF and PREF in Map blocks, the same gets updated only in the PE Step/Transition details and Callout Step / transition "Expression" section, but the "Parameters" section in the call out box retains the old name. **Recovery**: None. **Workaround**: Reparse the expression and reload the strategy.
1–AXYU01X	Experion Batch Manager–Controller	**Error Indication:** A Batch Sequence gets stuck during Execution after a USO snapshot and overlay is loaded and SCM goes to Config Error. **Description:** In OTS , when USO Snapshot is saved and restored, a Batch sequence likely can get stuck at a particular location everytime. **Recovery:** Most likely automatic where the Sequence continues execution after some time.. **Workaround:** Reload the strategy exhibiting the above symptoms after a USO Snapshot Restore.
1–A6IDZ83	Experion Batch Manager–Controller	**Error Indication**: When the data type is changed from boolean to Float 64 the Value reference for this parameter is lost. **Description**: Phase Value reference is lost if user changes the data type of formula parameters of the phase block. **Recovery**: None.

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PAR	Function	Description
		Workaround: Manually set the lost Value reference or Parameter Reference.
1–ATO0J7R	Experion Batch Manager–Controller	**Error Indication**: The referenced parameter will be shows as dangling in monitoring side with "????". **Description**: – System does not update the changes in CBT parameter name in expressions in notes/ instructions. **Recovery**: None. **Workaround**: Manually change the old name to new name.

9.2.25　Experion Batch Manager–Tools

PAR	Function	Description
1–9XLD7Z3	Experion Batch Manager–Tools	**Error Indication:** Error is displayed is "Error parsing the XML file. The XML file is not valid or not as per schema". **Recovery:** None. **Workaround:** 1. Export the phase block. 2. Rename the Exported .def.xml file with the phase block name(blockname.def.xml file) 3. Import with overwrite.
1–AUW9MIF	Experion Batch Manager–Tools	**Error Indication:** Tableview print hangs when issued from Station and Control Builder. **Description:** The Table View print feature is not supported for MRs and activities. 1. Configure SCM/ RCM or CBR strategy and load it. 2. Create an activity and start the activity, SCM /RCM. 3. Now call up the table view in station using detail display or in Control Builder and click print option. 4. Try for Report parameter, current graphical view etc. **Recovery:** None. **Workaround:** Use PE print feature.

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9.2.26   EtherNet/IP-COMMUNICATION

PAR	Function	Description
1–B4Q3CM3	EtherNet/IP-COMMUNICATION	**Error Indication:** C300–EtherNet/IPcommunication drops through EIM when C300 (EXP510.1–37.12) and EIM (EXP511.1–40). **Description:** If the C300 controller is in a lower version and if the EthernetIP Interface Module (EIM) is in a later release, the communication of the C300 to the devices interfaced through the EIM interface will be disrupted on operations like re-load of strategy or C300 switchover. This interoperability situation might arise during the Experion system migration. **Recovery:** Flash\Upgrade\Migrate the C300 Controller to the latest firmware version. Reload the strategies that are affected.. **Workaround:** Always have the C300 controller in the latest firmware. During a Migration, always plan for migrating the C300 controller first to the target release before migrating the associated EIM.
1–81VFC5T	EtherNet/IP-COMMUNICATION	**Error Indication:** EtherNet/IP armor point IO devices disconnects momentarily on UOC switchover. **Description:** On a UOC Switchover, the Armor Point IOs loaded to the UOC may get disconnected momentarily. The error is observed in the Station in form of a transient Communication Error Diagnostic Alarm. **Recovery:** The IO modules connect back automatically after a brief period. **Workaround:** Enable Consolidate Connections option when working with Armor Point IOs.
1–9V8OCW5	EtherNet/IP-COMMUNICATION	**Error Indication:** [UOC] Reloading CMs after reaching CLX spec is returning error and failing load. **Description:** On a Controller loaded with maximum capacity of ControlLogix

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PAR	Function	Description
		UDT/Scalar types, reloading a CM containing UDT/Scalar blocks may report error 2474 **Recovery:** None. **Workaround:** For the control module that needs to be reloaded, delete it from the Monitoring side and load from project.
1–7KMG36R	EtherNet/IP–COMMUNICATION	**Error Indication:** ControlLogix Tag read fails in C300 EIM topology on reloading CM containing the tag if the Control Module is the only one that contains ControlLogix tag. **Description:** ControlLogix Tag read fails in C300 EIM topology on reloading CM containing the tag if the Control Module is the only one that contains ControlLogix tag. **Recovery:** None. **Workaround:** None.
1–A2419U5	EtherNet/IP–COMMUNICATION	**Error Indication:** BL20 input modules get disconnected and generate Communication Failure Alarm momentarily on EIM switchover (when used with EIM topology) or C300 switchover (when used with C300 direct topology). **Description:** BL20 input modules get disconnected and generate Communication Failure Alarm momentarily on IM switchover (when used with EIM topology) or C300 switchover (when used with C300 direct topology). The parameter "Refresh Connections on Switchover" (REFRESHCONNONSWO) has not been implemented on EIM and C300 and does not have any effect when connection to the BL20 Input IO modules is made with C300 (either directly or through EIM). **Recovery:** The BL20 input modules reconnects automatically after Target to Originator connection timeout and Communication Failure Alarm is returned to normal. **Workaround:** None.

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9.2.27   EtherNet/IP-CEE-EMBEDDED

PAR	Function	Description
1-AXSKXCZ	EtherNet/IP-CEE-EMBEDDED	:**Error Indication:** On CheckPoint Restore of EtherNet/IP Output modules, it is going to unpowered state. **Description:** On CheckPoint Restore of EtherNet/IP Output devices in NoDB condition, it is going to unpowered state instead of Fail Safe value. **Recovery:** Recovers automatically on next execution cycle to intended value. **Workaround:** None.

9.2.28   EtherNet/IP Tools

PAR	Function	Description
1-8I8YTYU	EtherNet/IP Tools	**Error Indication:** During the import of any EDS file, errors may get reported for the enumeration definitions that contain negative ordinals. In some scenarios the import may succeed. In such cases, the other engineering operations like configuration of instance or load of instance might fail. **Description:** The negative ordinals in an enumeration set are not handled properly in Control Builder. The user may see some inconsistent behavior while working with such enumeration parameters. **Recovery:** None. **Workaround:** If possible update the enumeration definition and specify ordinals that are greater than 0.
1-B5093HL	EtherNet/IP Tools	**Error Indication:** While creating an EtherNet/IP channel in Control Module, "InvalidEnumOridinal" error occurs. **Description:** While creating an EtherNet/IP channel and saving it, the followin error occurs. "EXPKS_E_CL_INVALIDENUMORDINAL (6L .101.10209) parameter 'CM_ServoTest.MAC800_OUT_01.PNTTYPE' has an invalid enumeration ordinal". This error occurs only when the template is imported from R500 to R510/R511.

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PAR	Function	Description
		Recovery: None.
		Workaround: Create the same device in R511/R510 using EDS file and assign it or ignore the error and proceed with further configurations.

9.2.29   ELCN System Management

PAR	Function	Description
RELCN-2633	ELCN System Management	**Error Indication:** ENIM halts during Yellow switch power cycle. **Description:** ELCN Virtual Backup ENIM Crashed when the TOP level Yellow switch was powered OFF with APP_SYS error. **Recovery:** Power UP the TOP level Yellow Switch and Load back the BACKUP ENIM from Native window. **Workaround:** None.
RELCN-2634	ELCN System Management	**Error Indication:** ENUM halts during Stability. **Description:**ELCN ENIM Crashed with failover during R511.1 stability. **Recovery:** Load Back the Crashed ENIM from Native window. **Workaround:** None.
RELCN-2571	ELCN System Management	**Error Indication:**ELCN device's backup will take over on green switch power down. **Description:** ELCN primary shuts down due to internal error, and secondary becomes primary. **Recovery:** Power up green switch and reboot new primary to return to original state. **Workaround:** None.
RELCN-2627	ELCN System Management	**Error Indication:** Loss of Control of ELCN device when crosslink cable goes down. **Description:**When top of rack switch crosslink cable consoles can no longer communicate with devices. **Recovery:** Re-establish crosslink cable. **Workaround:** None.

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9.2.30   ELCN

PAR	Function	Description

1-B5JBPC3	ELCN-TNode	**Error Indication:** ELCN T Nodes(510.2 only) don't autoload when rebooting machine & LCNP stuck in 00-Not Config.
		
		Description: For a fresh install of ELCN Nodes with R511.1, the LCNP4EmulationManagementService is missing its service dependencies. This will cause the emulated LCNP4 to not autoload after a PC reboot, and be stuck in NOTCONFIG.
		
		Recovery: None.
		
		Workaround: Create a registry file using Notepad with the file name of "tdcemulators.reg" with this exact content.
		
		`Windows Registry Editor Version 5.00`
		
		`[HKEY_LOCAL_ MACHINE\SYSTEM\CurrentControlSet\Services\TdcServer]`
		
		`"DependOnService"=hex(7):4c,00,43,00,4e,00,50,00,34,00,45,00,6d,00,75,00,6c,00,\`
		
		`61,00,74,00,69,00,6f,00,6e,00,4d,00,61,00,6e,00,61,00,67,00,65,00,6d,00,65,\`
		
		`00,6e,00,74,00,53,00,65,00,72,00,76,00,69,00,63,00,65,00,00,00,00,00`
		
		Then, save the file, and make sure it has a .reg extension. Then, double-click the "tdcemulators.reg" and write the contents to the Windows Registry. You will need to run this file on every ELCN node which is installed.

9.2.31   Fieldbus Library Manager

PAR	Function	Description
1-13MMAVH	Fieldbus Library Manager	**Error Indication:** Unable to Run some Methods for E+H devices. **Description:**The Following Methods (Device Details also mentioned) Fail to Execute from Experion Control builder for few E+H Fieldbus devices but Executes successfully in NI. **E+H Cerabar M 5x_0101 :**

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PAR	Function	Description
		Diagnostic_TR_1 – simulation : One of the steps where simulation selection enum is indicating is skipped
		Diagnostic_TR_1 – Reset: Method failed due to Comunication error due to built in fail
		Press_Basic – Setup : Aborted
		Press_Basic – Level : Aborted
		Press_Basic – Linearisation : Linearisation enum is skipped even before selecting
		Pres_Basic – Senor Trim : Method aborted, 0 entered to unlock not accepting.
		E+H Deltabar S_0603 :
		Service_Trans_1 – Operation : Even though code is given as 100 method is aborted
		E+H Deltapilot S 0603 :
		Service_Trans_1 – Peak Hold Indicator : Method aborted because of an error
		E+H Micropilot M 0505 :
		Execution of the following method fails with error "communication error caused builtin to fail"
		EH_RadarLevel_0 : Basic Setup
		IAGTB : Set to customer default
		DIAGTB : Diagnostics
		DISP2TB : Display
		Promass83_0401:
		CORTB : Quick setup Gas Measurement – Builtin Error
		CORTB : Basic Configuration
		Recovery: None.
		Workaround: None.

9.2.32   Fieldbus Interface Module

PAR	Function	Description
1-4668IVX	Fieldbus Interface	**Error Indication:** FF device/block load may return "Invalid NMA CRL" error.

PAR	Function	Description
	Module	**Description:**"Invalid NMA CRL", VCR load fail error when attempting to load FF devices or CMs. **Recovery:** FIM switchover or link inactive and active. **Workaround:** None

9.2.33 UPPERMOST

PAR	Function	Description
1–3GA96OO	IO/–PMIO	**Error Indication**: All channels that should be POWERED and are UNPOWERED report OUTPUTFL soft failures and none of them report DOVRCRNT soft failure. **Description**: Upon return of lost field power, outputs will be POWERED immediately if they were POWERED when field power was lost. **Recovery**: After field power is lost and before it is returned set all channels to MAN mode and the SO to UNPOWERED. **Workaround**: 1. If implementation includes intentional removal of field power, choose an alternative one. 2. If field power will be removed intentionally, set all channels to UNPOWERED prior to doing so.

9.2.34 IXP – Import Export

PAR	Function	Description
1–28C3M4F	IXP –Import Export	**Error Indication:** After DD import (FF\wireless) QVCS checked in strategies are Editable. **Description:** Checked in Control modules (having reference to FF blocks) become editable after performing dd import of the same ff device. **Recovery:** Close and reopen Control Builder, which will make the strategies non–editable. **Workaround:** Close and reopen Control Builder, which will make the strategies non–editable.
1–B73YIPN	IXP –Import	**Error Indication:** Un-Connected UOC DI/DO Reference blocks will be missing in R511.

Honeywell

PAR	Function	Description
	Export	**Description:** Un-Connected UOC DI/DO Reference blocks will be missing in R511. **Recovery:** None. **Workaround:** None.

9.2.35   I/O-Series C

PAR	Function	Description
1-SJ4W66	I/O-Series C	**Error Indication:** C300 synchronization fails. **Description:** After loading a CM containing DO channels connected to DEVCTL blocks, synchronization breaks between C300s when the IOM containing the loaded DO channels does not exist. **Recovery:** The C300 Synchronization will restart automatically and complete successfully. **Workaround:** To prevent this situation, do not load a CM containing DO channels connected to DEVCTL blocks unless the IOM is present.

9.2.36   OPM- Upgrade Tool

PAR	Function	Description
1-A1237LO	OPM-Upgrade Tool	**Error Indication:** OPM test fail because Primary and secondary server time is not synchronized. **Description:** Upgrade tool reports OPM test fail because Primary and secondary server time is not synchronized on EPKS system with DST time enabled. **Recovery:** None. **Workaround:** Manually check if the Primary and secondary server is synchronized.

9.2.37   PGM Hilscher Sycon .NET

PAR	Function	Description
1-9IVERK7	PGM Hilscher	**Error Indication:** In the Slave DTM which is viewed from sycon, "ProcessImageMonitor" tab appears.

Honeywell

PAR	Function	Description
	Sycon .NET	**Description**: This page doesn't harm the user except it doesn't have any useful information in it.
		Recovery: Ignore this tab and its content.
		Workaround: None.

9.2.38   PROFINET Embedded

PAR	Function	Description
1–AX415VR	PROFINET Embedded	**Error Indication**: After switchover some of the diagnostic alarms are getting returned to normal.
		Description: This hapens when too many alarms are reported from the same module. Internal request to get alarm on switchover fails if device is busy honoring another alarm request.
		Recovery: To recover from this error disable and enable ALMENMBSTATE parameter on device block. Alarm will regenerate.
		Workaround: Disable and enable ALMENMBSTATE parameter on device block. Alarm will regenerate.

9.2.39   Reference Block– Tools

PAR	Function	Description
1–AYFDKQ8	Reference Block–Tools	**Error Indication:** No error shall be popped up when user tries to connect two block pins from different blocks to a AO or DO reference block. 2 blocks can drive a value to output which is not correct.
		Description: Output reference blocks should not accept more than one connection and throw an error.
		Recovery: If two connections are made to the output reference blocks delete one of the connection and reload the CM.
		Workaround: Do not connect two pins to ouput reference blocks.

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9.2.40   Standard Series C- I/O Module

PAR	Function	Description
1-8ZCFEI9	Standard Series C- I/O Module	**Error Indication**: [SFT] LLAI module channels value goes to NaN during stable run when it connected over FOE. **Description**: [SFT] LLAI module channels value goes to NaN during stable run when it connected over FOE. **Recovery**: Limit fiber optical cable length to less than 7.5 KM when LLAI module used as remote IOM via FOE. **Workaround**: None.

9.2.41   SCM–Sequential Control Module

PAR	Function	Description
1-9CGRENF	SCM–Sequential Control Module	**Error Indication:** Sequence Control Module (SCM) / Recipe Control Module (RCM) / Control Recipe (CR) gets the following error details:- Execution Status of Info - Execution Code of DynPeerMemError- Execution Description of Out of Peer Resource Memory – Connection Status Error code of 2795 – "Out of peer resources". **Description:** The issue may occur when dynamic fetch is configured and there is failure in read of a peer reference with an error status code of 2795. This issue has been reported by one customer whose configuration includes an SCM in a C200e and fetching from peer controller. With this error, the SCM / RCM / CR is stuck and there are no alarms reported. Unless configuration enables alarming.u. **Recovery:** Single Step away from problem Transition or Step and then issue a Resume command. **Workaround:** There is no workaround from Transitions but Steps with peer references can be configured with Step Timeout alarms.

9.2.42   System Repository

PAR	Function	Description
1–5TLOATN	System Repository	**Error Indication:** Machine IP and Port number are displayed in the error log. **Description:** Machine IP and Port number are displayed in the error log. **Recovery:** None. **Workaround:** None.

9.3   Installation and Migration

9.3.1   Controller Migration

PAR	Function	Description
1–4668IVX	Controller Migration	**Error Indication:** Control Migration fails for controllers having Control Edge PLC point connection. **Description:** During Controller OPM or freeze and switchover of Experion controllers, checkpoint rebuild might fail with "Failed to construct relative path error." due to the presence of Control Edge PLC points in the controller. **Recovery:** Work with TAC before the Server migration starts. **Workaround:** None.

9.3.2   Fieldbus Interface Module

PAR	Function	Description
1–4668IVX	Fieldbus Interface Module	**Error Indication:** FF device/block load may return "Invalid NMA CRL" error. **Description:** "Invalid NMA CRL", VCR load fail error when attempting to load FF devices or CMs. **Recovery:** FIM switchover or link inactive and active. **Workaround:** None.

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9.3.3   Profibus Interface Module

PAR	Function	Description
1-1275R3B	Profibus Interface Module	**Error Indication:** Upon removal and re-insertion of Profibus cable from both primary and the secondary PGM, output channels become bad in TURCK and SiemensET200M DSB. **Description:** When Profibus cable is removed from primary PGM, switchover is initiated and when the Profibus cable is again removed from the new primary also all the outputs will go bad and is expected. But when the cable is reconnected on both the PGM's, output channels will remain bad and will not recover. **Recovery:** Perform PGM Switchover, all the output channels will become good. **Workaround:** None.
1-9SI1K4B	Profibus Interface Module	**Error Indication:**DPV1 data disconnect (freeze) observed during stable running condition. **Description:**DPV1 data disconnect (freeze) observed during stable running condition. **Recovery:** None. **Workaround:** Delete the HART channel block and PBHIOMB block and reload it.
1-479NUAX	Profibus Interface Module	**Error Indication:** ET200M DSB slave state changes to configured state after PGM RRR. **Description:** After PGM RRR Siemens ET200M DSB does not communicate. **Recovery:** Reload the ET200M DSB from project. **Workaround:** None.
1-9V9Y7CT	Profibus Interface Module	**Error Indication:** PBLINK and associated blocks like PBHIOMB, PBHCHANNEL and DSBs will be greyed out. Loss of communication with the Profibus devices. **Description:** This error occurs only if we perform Sync drop and enable more than 10 times continuously with fully loaded link. In case of customer scenarios this is likely to occur after 20 sync drops and re-sync. Provided GENPADSB, GENDRIVEDSB, ASILINKDSB and GENDSB are used. The occurrence also depends on number of instances of these DSBs configured.. **Recovery:** None.

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PAR	Function	Description
		Workaround: None.
1–9C7BJBH	Profibus Interface Module	**Error Indication:** PGM link will appear in red and Profibus communication will stop.
		Description: PGM modules lost the communication with link1 & Link2 during runtime cause LOC/LOV.
		Recovery: Reboot the PGM.
		Workaround: None.
1–A59ZM2D	Profibus Interface Module	**Error Indication:** When DPV1SLOTNUM is configured beyond 64, Limit or Range Exceeded error will be thrown.
		Description: Though the valid range is up to 255, this limitation is a hindrance to access records beyond 64.
		Recovery: None. User will not be able to access DPV1 records beyond slot number 64.
		Workaround: None.

9.3.4 Rockwell Network

PAR	Function	Description
1–11H1RD1	Rockwell Network	**Error Indication:** RsLinx does not show the Series A IO/SIM Card with Module Icon.
		Description: RsLinx application does not show the Series A IO/SIM Card with Module Icon.
		Recovery: None.
		Workaround: None.
1–AWGPW5B	Rockwell Network	**Error Indication:** Rslinx Automation.exe doesnt stop the required services and throws error while running it.
		Description: Rslinx Automation.exe doesnt stop the required services and throws error while running it.
		Recovery: None.
		Workaround: 1. Stop all services using Experion PKS Services Control Panel.
		2. Launch RSLinxAutomation.exe and proceed.

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9.3.5   Server- Migration

PAR	Function	Description
1-AW9MR7J	Server-Migration	**Error Indication**: dbmigwiz log reports "IXP Crashed while importing blocktypes in embupdatedb.sl". **Description**: During installation at Restore Control Strategies Step, dbmigwiz log indicates the below command has failed due to IXP crash, where as logET shows that the requested IXP operation is complete with start and end time. Command: C:\Program Files (x86)\Honeywell\Experion PKS\Engineering Tools\system\bin\ixptool.exe –PROJ4 IMPORT "<C:\Program Files (x86)\Honeywell\Experion PKS\Migrate\Plug-in\DBMigwiz\embupdatedb.sl" "/I=0" "/M=1": **Recovery**: Retry installing setup again will generally resolves the issue. **Workaround**: Retry installing setup again will generally resolves the issue.

9.3.6   Third Party Components

PAR	Function	Description
1-11KCT39	Third Party Components	**Error Indication**: Profibus IO module appears RED on Monitoring with the PFB Communication Status shown as ""PfbOffline and DEVSTATUS parameter of these blocks shows 'PfbNotInRun'. **Description**: PBI_DEVICE blocks go offline and appear in red in monitoring side after load of many remote-chassis I/O including SST block at the same time. This was also seen when chassis IO modules are loaded in a particular order like Pulse input module, then Analog Output Modules and then SST module along with its I/O modules. **Recovery**: Delete all the modules and load the Profibus modules first and then load the other chassis I/O modules. **Workaround**: None.
1-17FPCH	Third Party Components	**Error Indication**: Internal error occurs when you try to open the documents related to SST_PFB_CLX in SST Profibus installation CD part nr.705-0004, Rev. 03-02.

PAR	Function	Description
		Description: Internal error occurs when you try to open the documents related to SST_PFB_CLX in SST Profibus installation CD part nr.705-0004, Rev. 03-02. Because of this the user documentation cannot be used which will assist in installation or up-gradation of firmware. **Recovery**: None. **Workaround**: Use next version of SST_PFB_CLX in SST Profibus installation CD part nr.705-0004, Rev. 07.10.0.0 where issue is resolved.
1–OIW24V	Third Party Components	**Description:** Trying Disable-Enable of FTE Yellow-Green causing the BSOD fail of Server Grade. **Recovery:** Reboot the machine for each disable or enable of the adapter. **Workaround:** Invalid test case, if the machine is ON PROCESS. Do not disable all adapters and enable all adapters without a reboot. Reboot the machine for each disable or enable of the adapter.
1–PPG7GR	Third Party Components	**Error Indication**: C200 5ms controller is losing Connection with Server Intermittently resulting in loss of View at Control Builder (everything turns RED at Monitoring side) and Loss of View at Station for C200 Detail Display. **Description**: Loss of View / Server Connection fail on Control Builder & Station for C200 5ms (Non-Redundant), when there is Peer-to-peer (P2P) Connection between C200 5ms & ACE on CNET and cable is disconnected as per below: Remove Control Net Cable A of Non-Redundant C200 5ms & Remove Control Net Cable B of ACE. Remove Control Net Cable B of Non-Redundant C200 5ms & Remove Control Net Cable A of ACE. In the above two Scenarios, Loss of Peer-to-peer data communication between C200 & ACE is observed which is expected. But in this scenario, the C200 5ms is losing Connection with Server Intermittently (disconnects and connects back) and hence resulting in Loss of View at Control Builder (everything turns RED at Monitoring side) and Loss of View at Station for C200 Detail Display.

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PAR	Function	Description
		Recovery: Reconnect the cables back. **Workaround**: None.
1-TVWXHJ	Third Party Components	**Error Indication**: After checkpoint restore, output modules configured through SST module remain in red color in monitoring side with DEVSTATUS set to PfbNotInRun. **Description**: It is observed that after checkpoint restore, analog and digital output modules remain in red color in monitoring side with DEVSTATUS set to PfbNotInRun. **Recovery**: Take the C200E to NODB, reload the Master SST Profibus Interface and IO modules. **Workaround**: None.

9.3.7   Third Party- Microsoft

PAR	Function	Description
1-B1CELI2	Third Party-Microsoft	**Error Indication**: Occasionally controllers report alarms indicating SNTP failed or not using configured Time source. **Description**: In domain network where Experion servers are configured as SNTP time source for the controllers, occasionally controllers will not get time from Servers for a brief period. During this period, controllers will get the CDA time. **Recovery**: Controllers will automatically switch to Experion servers for time after a brief period of time. **Workaround**:None.

9.3.8   Third Party- Profibus

PAR	Function	Description
1-WBOGBR	Third Party-Profibus	**Error Indication**: SST-PFB-CLX module LCD would be blank with no indications. The OK LED would be OFF and one or both of the COMM LED and SYS LED would be ON (RED). **Description**: After upgrading the SST-PFB-CLX

PAR	Function	Description
		module to firmware 6.07 and loading a big configuration (exceeeding what is mentioned in SST specification of 246 words Output data and 248 words Input data and 250 words Status), two modules got bricked. LCD on the module would be blank with no indications. The OK LED would be OFF and one or both of the COMM LED and SYS LED would be ON (RED). Restarting the modules is not helping to bring them back. Not sure if loading big configuration resulted in the bricking. Communication with Molex on the same is in progress. **Recovery**: None. **Workaround**: None.

9.3.9   Third Party– Rockwell

PAR	Function	Description
1–A3IXP93	Third Party– Rockwell	**Error Indication**: On a R510/R511 Experion server installed with RSLinx, SQL dump files are created every 1 hour at C:\Program Files\Microsoft SQL Server Reporting Services\SSRS\LogFiles causing the C drive to eventually fill up. Experion reports functionality also may not work on these nodes. **Description**:There is a conflict in the TCP port number used by Rockwell's RSLinx and Microsoft's SQL Server 2017 used on an Experion server for Reporting Services. This causes some of the Microsoft processes related to Experion services to stop causing continuous dump file creation. **Recovery**: Reconfigure the FactoryTalk Diagnostics Local Reader service (RNADiagnosticsSrv.exe) to use a different port. The detail steps to reconfigure this port is provided in Honeywell Article number 98707 / Experion PKS Technical Note# 395. This article can be accessed by logging on to www.honeywellprocess.com > Support > search for article 98707. **Workaround**: Perform the recovery step after RSLinx installation.

Honeywell

PAR	Function	Description
1–8H5CPBD	Third Party– Rockwell	**Error Indication:** If the TC-CEN021 is being used to interface with the PLC, the communication to PLC breaks down from the configuration node through TC-CEN021. **Description:** If the PLC is interfaced with an Experion system through Honeywell's TC-CEN021 module, the PLC cannot be contacted through RSLinx Classic v3.90 or later. **Recovery:** Replacing the TC-CEN021 with Rockwell's latest Ethernet Interface Module "1756-EN2T" will resolve the communication issue with the PLC from the configuration node. **Workaround:** None.

9.3.10   INS–Experion Installer

PAR	Function	Description
1–BAZN97B	INS– Experion Installer	**Error Indication**: A message box indicating "Sequencer display is not responding" is displayed. **Description:**Sequence Display crashes after an interaction/button click is done in installation Status display.. **Recovery:** None **Workaround**: Acknowledge the message and proceed.

9.4   Servers and Stations

9.4.1   Detail Displays

PAR	Function	Description
1– 9SBA43B	Detail Displays	**Error Indication:** Station throws an error message and loads a blank page. **Description:** NORSOK CA & SBE block detail displays may fail to load chart view in Station. **Recovery:** None. **Workaround:** View Chart from Control Builder.

Honeywell

9.4.2 Field Device Service

PAR	Function	Description
1–8NPLXTR	Field Device Service	**Error Indication:** The client request for HART data will fail and the status will be shown corresponding to the application. For example, when HART data Status is BAD, on displays, it will show reverse video, on trends, it will display "?????".History will show some gaps for that period. OPC clients will show status as BAD with an empty value.
		Description: HART Point Parameter Access is subjected to slower performance when compared to Point parameter access using CDA mechanism. Experion OPC Server has connection timeout defined as 1 minute for its clients for any demand read request. If a read request is not completed within one minute, read request will time–out and fail. OPC Clients would not get data in such cases. This limitation of Experion Server has an impact on clients accessing HART data (using DD parameters) using Demand Reads.
		Recovery: None.
		Workaround: To avoid any application connection timeout issues, it is strongly recommended for demand read clients to access only 10 hart devices data at a time. For each device users can configure up to 10 parameters for access. Simultaneous access of more number of HART devices using demand read can cause an Application Connection time–out.
1–8W8XR8T	Field Device Service	**Error Indication:** Configure Device step in Auto Device Commission workflow in Project Engineering Plugin in Control Builder will fail.
		Description:"Device Configuration did not complete for <TagName> because Error occurred during device communication" message is show in PET plugin during configure device step. Issue is seen only for CERABAR S device.
		Recovery: None.
		Workaround: None.

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9.4.3 HMIWeb Station –Collaboration Station

PAR	Function	Description
1–B0Q9UY6	HMIWeb Station–Collaboration Station	**Error Indication**: Inactive windows in Collaboration station will turn to white. **Description:** 1. If user opens more than 8 station windows, then window in round –robin fashion will turn to white instead of image with 50% opacity . 2. If user opens any window in zoom region area and zoom out, window will turn to white instead of image with 50% opacity. **Recovery**: Interact with the window to reload the content. **Workaround :** None.

9.4.4 HMIWeb Station – Displays

PAR	Function	Description
1–5UEU04N	HMIWeb Station – Displays	**Description:** It has been observed that, after migration from an older release to R510.1, any .html file (ECC Generated report) is getting opened in HMI Web builder instead of Internet Explorer. **Workaround 1:** If .html file (ECC report) opens up in HMI Web Builder then go to Control panel > Programs > Default Programs > Set Associations and set association of .html to Internet explorer from HDB.exe. **Workaround 2:** Open internet explorer and just drag and drop ECC report (html file) in it.

9.4.5 QVCS

PAR	Function	Description
1–B1YONAD	QVCS	**Error Indication:** None. **Description:** No error is displayed that non QVCS strategies are getting deleted. **Recovery:** None. **Workaround:** None.

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9.4.6   QVCS for Display

PAR	Function	Description
1–BOS8T8J	QVCS for Display	**Description:** Administrator is not able to check in a Display file which was checked out by Engineer. **Recovery:** None. **Workaround:** 1. Take backup of the file that is checkedout by the user. The file is in "QVCSWorkingFolder" in the same machine where it is checkedout. 2. Administrator can undo the checkout. 3. Perform checkout to get a local writable copy of the file. Replace this with the earlier backup copy and overwrite. 4. Perform Check in.
1–B37FK6L	QVCS for Display	**Error Indication:**Apply Label operation gives "Object Locked" error when Multi user Control Builder operations are in progress. **Description:** When multiple users are simultaneously using QVCS and performing bulk QVCS operations and one of the user performs a Apply Lable operation, the user might hit this issue **Recovery:** Press cancel to come back to the QVCS query window. **Workaround:** Retry the the Apply lable operation again.

9.4.7   Server – Batch Unit Timeline

PAR	Function	Description
1–9ZLMSZL	Server – Batch Unit Timeline	**Error Indication:** Unit Timeline Now Card is empty. **Description:** The Unit Timeline Now Card is empty and timeline bars are not appearing. This can occur when inter-cluster peer-to-peer is used to invoke batch Phases (SCMs) from higher level recipes. **Recovery:** None. **Workaround:** Move the recipe that invokes the Phase (SCM) onto a controller in the same cluster as the Phase

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PAR	Function	Description
		and then download it. The next time a batch is run the Now card will display phases when they are active.
1–A28D4P9	Server – Batch Unit Timeline	**Error Indication:** Delay exceedance indication is not seen on the completed procedures after DSA reconnect and not updated after reference batch selection change. **Description:** Delay exceedance indication is not updated on completed timeline bars after reference batch selection change or recovery. **Recovery:** None. **Workaround:** None. The avoidance is to make the correct reference batch selection early in the batch and address underlying causes of DSA disconnection.
1–B5MYI8W	Server – Batch Unit Timeline	**Error Indication:** Procedure Explorer launched from Timeline Unit Card shows blank with "Nan does not exist". **Description:** When opening Procedure Explorer from the context menu of the Unit Timeline Unit Card, it will show the error "Nan does not exist" and appear blank.. **Recovery:** Close Procedure Explorer when this error is seen and use workaround. **Workaround:** Instead of opening Procedure Explorer from the Unit Card, open it from the context menu of that unit's Now Card. When using the Now Card, Procedure Explorer will open correctly to the selected phase and the navigation links or tree can then be used to view the procedural element that acquired the unit, or any other element of that batch.

9.4.8   Server – Other or Unknown

PAR	Function	Description
1–B723M5B	Server – Other or Unknown	**Error Indication:** Excel report does not give update data, when configured with ODBC driver. No error message shown to the user. **Description:** Excel reports that are configured to get data using ODBC drivers does not get the updated data. **Recovery:** None. **Workaround:** None.

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9.4.9　Server – TPS Integration

PAR	Function	Description
1-9H1JBWH	Server – TPS Integration	**Description:** The LCN Status dashboard does not load correctly when many TPS nodes are configured. **Recovery:** None. **Workaround:** Create a custom dashboard that contains fewer nodes on the first page.
1-B5LPVLB	Server – TPS Integration	**Error Indication:** Custom TPS unit mapping configuration may be cleared when migrating from Experion R43x to a later release of Experion which may mean Experion is unable to discover new TPS points or receive TPS process alarms. **Description:** Custom TPS unit mapping configuration may be cleared when migrating from Experion R43x to a later release of Experion which may mean Experion is unable to discover new TPS points or receive TPS process alarms. **Recovery:** None. **Workaround:** Before migration, run the following command to dump the current TPS unit mapping, this will dump it to a file named tpsunitmapping.txt. This command assumes your TPS system interface is configured in slot 1. If it is in another slot you will need to adjust the "-RECORDS 501" argument: "-RECORDS 501" is system interface slot 1, "-RECORDS 502" is system interface slot 2, etc. fildmp -DUMP -FILENUM 224 -RECORDS 501 -FORMAT HEX -FILE tpsunitmapping.txt. After the migration, restore the TPS unit mapping by running the following command, this will take in the tpsunitmapping.txt file and repopulate the mapping. If you adjusted the "-RECORDS" argument, use the same "-RECORDS" argument as in the previous step to ensure the data is written to the correct record. fildmp -RESTORE -FILENUM 224 -RECORDS 501 -FORMAT HEX -FILE tpsunitmapping.txt.

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9.4.10   Procedure Explorer

PAR	Function	Description
1–AYVGE5U	Procedure Explorer	**Error Indication:** PE doesn't respond and times out when user gives "No" to control confirmation dialog. **Description:** With control confirmation configured, if user gives an affirmative "Yes" response and confirms the message, PE operations like Jump proceed immediately as expected. However if user gives "No" instead, PE doesn't do anything and simple waits for timeout before giving user a chance to retry. **Recovery:** Wait for timeout before retrying.. **Workaround:** None.

CHAPTER

10

HONEYWELL SOFTWARE COMPONENTS AND VERSIONS

This chapter lists the versions of Honeywell software components.

10.1   Common component versions

Component	Version	Version verification (Only one option is listed)
App_TPS_Base	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
AppTPSCL	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
AppTPSClient	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**.

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Component	Version	Version verification (Only one option is listed)
		The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
App_TPS_Solution	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Experion CAB	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Honeywell_CAB_ Support	051.101.00600	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Honeywell Computers and Network Equipment Provider	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears.

Honeywell

Component	Version	Version verification (Only one option is listed)
		2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
Honeywell CANE Detail Displays	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
Experion_Station_ Console_TPS	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
Honeywell Security Model – Domain Controller	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
HSE_Creator_Tool	051.101.01100	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool

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Component	Version	Version verification (Only one option is listed)
		window, click **View Experion Feature Packages/Uninstall Experion Product.**
Honeywell FTE MUX Driver	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Honeywell_FTE_Driver	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Honeywell_GUSDISP_ Support	051.101.00600	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Experion_GUS_Display_ Builder	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion**

Component	Version	Version verification (Only one option is listed)
		Feature Packages/Uninstall Experion Product.
Experion_GUS_Display_ Runtime	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Experion_GUS_ Multiple_Displays	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Experion_GUS_ Remote_Displays	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Honeywell_HCI_ Runtime	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**

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Component	Version	Version verification (Only one option is listed)
Honeywell_IKB_Service	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
Honeywell_INF_ Support	051.101.00600	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
lcnp4drv	051.101.00600	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
Honeywell_ Redirection_Manager	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
Experion_Remote_ Native_Window	051.101.03900	Perform the following steps to verify the version.

Component	Version	Version verification (Only one option is listed)
		1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Honeywell_Safeview	051.101.03300	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Experion_Server_TPS	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Honeywell Signon Manager	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Honeywell Signon Manager ACR120USB plugin	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.**

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Component	Version	Version verification (Only one option is listed)
		The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
Honeywell FTE Switch Configuration Tool	051.101.03600	Launch the **Launch switchtool.exe**. **Help > About**
Honeywell System Management Runtime	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
TPN_Backup_Restore	051.101.01100	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
Honeywell_TPNFT_ Support	051.101.00600	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
Experion_TPS_System_ Displays	051.101.03900	Perform the following steps to verify the version.

Component	Version	Version verification (Only one option is listed)
		1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Honeywell TPS Domain Console Configuration	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Honeywell File Transfer – Server and Client	051.101.03300	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Honeywell File Transfer – Client	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Honeywell_TPSINT_ Support	051.101.00600	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.**

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Component	Version	Version verification (Only one option is listed)
		The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
Honeywell USB Storage Disable	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
Honeywell PC Universal Station	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
Honeywell Security Model – Workstation	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
Honeywell FTE MUX Win10 Driver	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears.

Component	Version	Version verification (Only one option is listed)
		2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Honeywell Multifactor Authentication	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Honeywell Multifactor Authentication32	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Honeywell Multifactor Domain Policy Templates	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
Honeywell Signon Manager Database Server	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool

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Component	Version	Version verification (Only one option is listed)
		window, click **View Experion Feature Packages/Uninstall Experion Product**.
Honeywell Signon Manager Fingerprint Enrollment	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
Honeywell Signon Manager Fingerprint Plugin	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
Honeywell Signon Manager Handler Lumidigm	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product**.
Honeywell HSR MUX Driver	051.101.00100	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion**

Component	Version	Version verification (Only one option is listed)
		Feature Packages/Uninstall Experion Product.
Honeywell PRP MUX Driver	051.101.00100	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
ELCN_node	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**
HM_base	051.101.03900	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears. 2. In the Maintenance Tool window, click **View Experion Feature Packages/Uninstall Experion Product.**

10.2 Controllers and tools version

Component	Version	Version verification (Only one option is listed)
Control Builder	R511.1	Perform the following steps to verify the version.

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Component	Version	Version verification (Only one option is listed)
		1. Launch the **Configuration Studio.** 2. Choose **Configuration Studio > Control Strategy > Configure Process Control Strategies.** 3. Choose **Help > About...**
DBADMIN	511.1.42.0	Perform the following steps to verify the version. 1. Open Windows Explorer and browse to C:\Program Files (X86)\Honeywell Experion PKS\Engineering Tools\system\bin\pserdbadmin.dll. 2. Click **Properties > Details** tab.
Import/Export Tool	EXP511.1–42.0	Perform the following steps to verify the version. 1. Launch the **Import–Export Tool.** 2. Choose **Help>About...**
IOTOOL	EXP511.1–42.0	Perform the following steps to verify the version. 1. Launch the **Configuration Studio.** 2. Choose **Control Strategy > Maintain IO Modules.** 3. **Choose Help > About...**
Network Tools	EXP511.1–42.0	Perform the following steps to verify the version. 1. Launch the **Configuration Studio.** 2. **Choose Control Strategy > Maintain Control System Firmware.** 3. **Click Help > About...**
Engineering Tools database	EXP511.1–42.0	Perform the following steps to verify the version. 1. Launch the **Import–Export Tool.** 2. Choose **Help > About...** ERDB version is displayed after Import–Export tool

Component	Version	Version verification (Only one option is listed)
		version.
Application Control Environment (ACE)	511.1–42.0	Perform the following steps to verify the version. 1. Open Windows Explorer and browse to C:\Program Files\Honeywell Experion PKS\Engineering Tools\system\bin\ace.exe. 2. Right-click **Properties > Details** tab.
Simulation Control Environment (SIM–C200E)	511.1–42.0	Perform the following steps to verify the version. 1. Open Windows Explorer and browse to C:\Program Files\Honeywell Experion PKS\Engineering. Tools\system\bin\sce.exe. 2. Right-click **Properties > Details** tab.
Simulation Control Environment (SIM–C300)	511.1–42.0	Perform the following steps to verify the version. 1. Open Windows Explorer and browse to C:\Program Files\Honeywell Experion PKS\Engineering Tools\system\bin\simc300.exe. 2. Right-click **Properties > Details** tab..
IOLIM Simulation (SIM–IOLIM)	511.1–42.0	Perform the following steps to verify the version. 1. Open Windows Explorer and browse to C:\Program Files\Honeywell Experion PKS\Engineering. Tools\system\bin\simiolim.exe. 2. Right-click **Properties > Details** tab.
Upgrade Tool	511.1–42.0	Open Configuration Studio. 1. Choose **Configuration Studio >**

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Component	Version	Version verification (Only one option is listed)
		Experion PKS Cluster Upgrade> Prepare the Cluster for an Upgrade. This opens the Upgrade Tool.. 2. In Upgrade Tool, choose **Help > About...**
FTE Driver	511.1–42.0	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool**. The **Maintenance Tool** window appears. 2. Select **View Experion Feature Packages/Uninstall Honeywell Product Honeywell FTE MUX Driver**.

10.3   Server and client versions

Component	Version	Version verification (Only one option is listed)
Experion Server	051.101.0450	Perform the following steps to verify the version. 1. Launch the **Start-Stop Experion PKS Server.** 2. In the **Experion PKS Server** dialog box, choose **File > About...**
Experion Console Station	051.101.0450	Perform the following steps to verify the version. 1. Launch the **Start-Stop Experion PKS Console Station.** 2. In the **Experion PKS Server** dialog box, choose **File > About..**
HMIWeb Station	051.101.376	Perform the following steps to verify the version. 1. Choose **Honeywell Experion PKS > Server > Station.** 2. Choose **Help > About...**

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Component	Version	Version verification (Only one option is listed)
HMIWeb Display Builder	051.101.376	Perform the following steps to verify the version. 1. Choose **Honeywell Experion PKS > Server > HMIWeb Display Builder**. 2. Choose **Help > About...**
DSP Display Builder	R320.4	Perform the following steps to verify the version. 1. Choose **Honeywell Experion PKS > Server > DSP Display Builder**. 2. Choose **Help > About...**
Quick Builder	051.101.062	Perform the following steps to verify the version. 1. In the **Experion PKS Server** dialog box, choose **File > About..** 2. Under **Provider**, look for **Honeywell.QB.QBProvider.Provider.**
Configuration Studio	051.101.0390	Perform the following steps to verify the version. 1. Launch the **Configuration Studio**. 2. Under **Application**, look for **Honewyell CDF. ConfigStudio**.

10.4   TPS Software Component Versions

Component	Version	Version verification (Only one option is listed)
GUS Display Builder	511.1.39.0	1. Choose **Honeywell Experion PKS > TPS Applications > GUS Display Builder**. 2. Choose Help > About Honeywell GPB.
Native Window	511.1.39.0	1. Choose **Honeywell Experion PKS > TPS Applications > Native Window**. 2. Click Help > About Native Window.
TPN Backup Restore	511.1.11.0	1. Choose **Honeywell Experion PKS > TPS Applications > TPN Backup–Restore**. 2. Choose Help > About....

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Component	Version	Version verification (Only one option is listed)
Componen t Library Editor	511.1.39. 0	1. Choose **Honeywell Experion PKS > TPS Applications > GUS Display Builder Tools > Component Library Editor**. 2. Choose Help > About Library Editor.
HOPC Server	511.1.39. 0	1. Open Windows Explorer and browse to C:\Program Files\Honeywell\TPS\GUS\ hopcsrvr.exe. 2. Right–click Properties > Details tab and verify File Version.
NWDDB Server	511.1.33. 0	1. Open Windows Explorer and browse to C:\Program Files\Honeywell\TPS\GUS\ nwddb_server.exe. 2. Right–click Properties > Details tab and verify File Version.
LCNP Status Applet	511.1.39. 0	1. Open Windows Explore and browse to C:\Program Files\Honeywell\TPS\Emulators\ emstatus.exe. 2. Right–click Properties > Details tab and verify File Version.
File Transfer	511.1.11. 0	1. Open Windows Explorer and browse to C:\Program Files\Honeywell\TPS\TPSxfer\ FTService.exe. 2. Right–click Properties > Details tab and verify File Version.
CL Server	511.1.33. 0	1. Open Windows Explorer and browse to C:\Program Files\Honeywell\TPS\CLAPPServer\clsrvrdss.ex e. 2. Right–click Properties > Details tab and verify File Version.
TPN Server	511.1.39. 0	1. Open Windows Explorer and browse to C:\Program Files\Honeywell\TPS\TPNServer\ tpndss.exe. 2. Right–click Properties > Details tab and verify File Version.

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10.5   Compatibility with TPN releases

The following table presents the compatibility between the Experion (ESVT, ES-T, ACE-T) and TPN releases.

Experion release	Minimum TPN system software
R201, R21x , R301.x	TPN R641.2
R31x.x , R400.x, R410.x, R430.x, R431.x, R432.x, R500.x, R501.x, R510.x, R511.x	TPN R535.1 or later R5xx releases in this series. TPN R652.1 or later R6xx releases in this series.

> **NOTE**
> - For customers with no existing US or GUS nodes: GUS–TPN Software CD R652.1 (or later) is required.
> - For customers with no existing Experion APP or AM nodes: TPN Application Module Software CD R652.1 (or later) is required.

To use some Experion features, newer versions of TPN are required for proper integration with Experion. They are enumerated as follows:

TPN software release version	Required for this functionality	Notes
TPN R688.1	Experion Local Control Network (ELCN) and Enhanced Universal Control Network (EUCN)	ULM R301.20 is required.
TPN R687.3	- ELCN - Triconex Communication Module Interface (TCMI)	For TCMI capability, ULM R301.17 is also required. A minimum of Experion R501.1 is required for ELCN functionality.
TPN R686.2	- Enhanced Network Bridge (ENB)	ULM R301.16 is also required. For Experion Direct Connection capability (optional license), a minimum of Experion R432.2/R500.2 is required.
TPN R685.1	EUCN Part 2 (that is, peer-to-peer from C300 Controllers to EHPM Controllers).	ULM R301.12 is required.

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TPN software release version	Required for this functionality	Notes
TPN R685.3	EUCN Part 2b (i.e. automatic NIM point import to Experion database)	ULM R301.14 is also required.
TPN R685.3	Experion Highway Bridge (EHB)	EHB is supported for On-Process Migrations starting R431.
TPN R685.1	The ability to load Sequence Programs from the Experion Detail Display.	Functionality gives a warning message if attempted to be used from an earlier TPN version.
TPN R683.2 (or later)	Fully functioning integration for HMI Web TPS Detail Displays.	Experion R410.x (or later) is also required.
TPN R684.2 (or later)	EUCN Part 1 (ENIM/EHPM) functionality.	Need ULM R301.11 (or later).
TPN R681.x (or later)	Proper integration of Selective Contact Cutout functionality.	In addition, Experion R311.x (or later) is required.
TPN R680.1 (or later)	Not displaying disabled alarms on Flex Stations.	In addition, Experion R310.x (or later) is required.
TPN R680.1 (or later)	To allow the "Option to display Uncertain Quality for TPS points" functionality.	Option found in TPN Server component configuration.

The Utilities & Load Module Media (ULM) contains (among other things) the EST and ESVT load modules, which are necessary for proper Experion integration. It is crucial to have the version of the ULM that matches with your version of Experion software to ensure proper integration. Following are specific features and their versions:

Utilities & Load Module Media (ULM) requirements

- The Utilities and Load Module Media (ULM) version for Experion R410.x is R301.9.
- The Utilities and Load Module Media (ULM) version for Experion R430.x/Experion R431.x is R301.12.
- The Utilities and Load Module Media (ULM) version for Experion R432.x/Experion R500.x would be R301.16.
- The Utilities and Load Module Media (ULM) version for Experion R510.x would be R301.17.
- The Utilities and Load Module Media (ULM) version for Experion R511.x would be R301.20.

EST Load Module version	Required for this functionality	Notes
EST.LO load module version 68.9 (or later)	Required for Experion Console Enable/Disable Functionality.	Functionality introduced in Experion R500 and later.
EST.LO load module version 68.5 (or later)	Required for the TPS System Status Indicator (S) and TPS Console status indicator (C) on the Experion Station status bar.	Currently not supported in TPN R53x.x.
EST.LO load module version 68.1 (or later)	Required for "Message clear required" functionality.	Additionally, supported on TPN R53x.x with EST.LO load module version 53.2 (or later).

For full EUCN vs. Experion vs. TPN release compatibility, always refer to the "EUCN" tab in the latest "Experion Update Matrix" spreadsheet, which is available on honeywellprocess.com.

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CHAPTER

11

HONEYWELL-QUALIFIED THIRD-PARTY SOFTWARE COMPONENT VERSION

- [Honeywell-qualified third-party embedded software component versions](#)
- [Honeywell-qualified third-party software component versions](#)

11.1 Honeywell-qualified third-party software component versions

This section identifies third-party, Windows-based software applications that are supported on an Experion client system.

> **ATTENTION**
>
> Honeywell is not responsible for issues resulting from the installation or use of any software that have not been tested for Experion compatibility by Honeywell. In case, you must use any of the third-party software, ensure sufficient system resources such as memory, CPU performance, disk space, display space, and so on are available.

Software application and version	Verification mechanism (Only one option is listed)
Microsoft Office	Qualified Microsoft Office products include the following: • Microsoft Excel • Microsoft Word • Microsoft PowerPoint • Microsoft Access Note: Any other MS components not mentioned in the list (Outlook, Communicator, and so on.) are not supported. For latest information about the qualified Microsoft Office packages for the Experion products, refer to the following [link](#).

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Software application and version	Verification mechanism (Only one option is listed)
National Instruments NI–FBUS Communications Manager	1. Choose **Start > Programs > NI FBUS > Interface Config**. 2. Click the **System** menu and select **About fbConfig_NT**. **Limitations/Compatibility** Model Number TC–NIFB01 must be used with Model Number 1757-CN2FF Fieldbus Linking device. Only this model number must be purchased and not the general release of the Configurator from NI.
McAfee NT Scan	Qualified McAfee Antivirus package is available on the Honeywell Process Solutions website.
Symantec	Qualified Symantec package is available on the Honeywell Process Solutions website.
Honeywell TotalPlant Batch	Contact Honeywell TAC for more information.
Procedure Analyst	Contact Honeywell TAC for more information.

11.2   Honeywell–qualified third–party embedded software component versions

Component	Version	Verification mechanism (Only one option is listed)
Adobe Acrobat Reader (DC)	17.011.30078	1. Open Adobe Reader. 2. Choose **Help > About Adobe Reader**
Dell Open Manage Server Administrator	9.1	1. Click **Start** > **Windows System** > **Control Panel** > **Programs** > **Programs and Features**. 2. Check **Dell OpenManage System Management Software (64–Bit)**.version in the **Version** column of the page.
Dell Open Manage Client Instrumentatio	9.3	1. Click **Start** > **Windows System** > **Control Panel** > **Programs** > **Programs and Features**.

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Component	Version	Verification mechanism (Only one option is listed)
n		2. Check **Dell OpenManage System Management Software (64–Bit)**.version in the **Version** column of the page.
HP System Management Homepage	7.6.0.11	1. Click **Start** > **Windows System** > **Control Panel** > **Programs** > **Programs and Features**. 2. Check **HP System Management Homepage**.version in the **Version** column of the page.
Internet Explorer	11.0	1. Open Internet Explorer directly. 2. Choose **Help > About Internet Explorer.**
Microsoft .NET Framework	4.6.2	Ensure the following directory is available: C:\WINDOWS\Microsoft.NET\ Framework\v1.1.4322.
MS Visual Basic Run–Time DLLs (Used with Model No. MZ–NTDE04 Application Development Toolkit.)	6.0.98.15	1. Open Windows Explorer and browse to C:\windows\syswow64\ msvbvm60.dll. 2. Right-click **msvbvm60.dll**. 3. Right-click **Properties.** Click **Details** tab.
MS Visual C++ Run–Time DLLs	7.0.14393.2457	1. Open Windows Explorer and browse to C:\windows\syswow64\MSVCRT.dll (Microsoft Run Time Library). 2. Right-click **MSVCRT.dll**. 3. Right-click **Properties.** > Click **Details** tab
SQL Server 2017 Standard	14.0.1000.169	1. Open SQL Server Management Studio. 2. Type "select @@version" and press F5 key.
Objective Grid	13.0.0.0	1. Open Windows Explorer and browse to C:\Program Files (x86)\Honeywell\ExperionPKS\Engineering Tools\System\Bin\og1300asu.dll. 2. Right-click **og1300asu.dll.** 3. Click **Properties > Details** tab.
Embedded	1607 (OS build 14393.187)	1. Right-click **Start > Run.**

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Component	Version	Verification mechanism (Only one option is listed)
Microsoft Windows 10 Enterprise 2016 LTSB (x64)		2. On Command prompt, type **Winver** and press **ENTER.**
Embedded Microsoft Windows Server 2016 Standard	1607 (OS build 14393.187)	1. Right-click **Start > Run.** 2. On Command prompt, type **Winver** and press **ENTER.**
Embedded Microsoft Windows Server 2016 Datacenter OS	1607 (OS build 14393.187)	1. Right-click **Start > Run.** 2. On Command prompt, type **Winver** and press **ENTER.**

CHAPTER

12

SUPPORT FOR OPTIONAL SCADA INTERFACES

12.1   Purpose

This section covers the testing and support status of SCADA interfaces.

12.2   Interface support level

Honeywell provides varying levels of support for each SCADA interface dependent on availability of hardware and the level of support third-party vendors support their software. The following table provides the levels of support.

SCADA Interface Support Level	Description
Supported	SCADA interfaces that are fully supported by Honeywell and third party vendors. If interface relies on third party drivers then these are officially supported and qualified on the platforms required by Experion.
Validated	SCADA interfaces that have been validated by Honeywell or independently by a customer on Experion. However, these SCADA interfaces rely on third-party vendors who have either withdrawn the interface or do not officially support the platforms required by Experion. Honeywell support may be dependent on third-party vendors.
Not Validated	SCADA interfaces that have not been fully validated by Honeywell on Experion. These SCADA interfaces either rely on third-party vendor software that were not supported on the platforms required by Experion during development, or there is limited hardware availability or the hardware is obsolete. Honeywell support may be dependent on third-party vendors.

12.3   SCADA Interface Support

The following tables describe the levels of support for each SCADA interface.

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12.3.1   Honeywell Devices

SCADA Interface	Support Level				Considerations
	R410x	R43x	R50x	R510	
TDC 3000	Supported	Supported	Supported	Supported	Not applicable
S9000 Integration	Supported	Supported	Supported	Supported	Not applicable
620 LCS Serial and Ethernet Interface	Supported	Supported	Supported	Supported	Not applicable
UDC 3000/5000/6300 Integration	Supported	Supported	Supported	Supported	Not applicable
DPR Recorders	Supported	Supported	Supported	Supported	Not applicable
RM7800 Flame Safeguard	Not Validated	Supported	Not Validated	Not Validated	Not applicable
Universal Modbus Interface	Supported	Supported	Supported	Supported	Allows communication with UMC800, HC900 and other compatible devices and controllers. Please refer to the Honeywell Universal Modbus Interface Reference for more details.
MasterLogic	Supported	Supported	Supported	Supported	R5xx BCC: Contact TAC or your Sales Account Manager if you require this interface.
FSC and Safety	Supporte	Supporte	Supporte	Supporte	Not applicable

SCADA Interface	Support Level				Considerations
	R410x	R43x	R50x	R510	
Manager	d	d	d	d	
ControlEdge RTU (including RTU2020)	Supported	Supported	Supported	Supported	Enhanced integration introduced in R500
ControlEdge PLC using OPC UA protocol	Not Available. Integrate PLC data using Modbus Interface.	Not Available. Integrate PLC data using Modbus Interface	Supported	Supported	Enhanced integration introduced in R500.2 & R501

12.4 Industry Standard Interfaces

SCADA Interface	Support Level				Considerations
	R410x	R43x	R50x	R51x	
Modbus (RTU, Plus, ASCII & TCP) Interface	Supported	Supported	Supported	Supported	R410: Validated with Cyberlogic MBX driver suite 7.0 R43x: Modbus Plus Interface has been qualified with Schneider USB Adapter for Windows 2008 version 7.0.0.0 (part number TSXCUSBMBP) and Cyberlogic MBX Driver Suite version 7.0.0.0 R5xx: Validated with Cyberlogic MBX driver suite 7.1 R5xx BCC: Modbus Plus has not been validated for this release.

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SCADA Interface	Support Level				Considerations
	R410x	R43x	R50x	R51x	
					R5xx+: Enron Modbus interface also supports standard Modbus, and may be preferred in cases such as high latency Modbus TCP, or when a single Experion controller is preferred for access to multiple Modbus tables in the same device.
DNP3 Protocol Interface	Supported	Supported	Supported	Supported	Not applicable
OPC Interface (OPC SCADA Client)	Supported	Supported	Supported	Supported	It is recommended that MatrikonOPC servers are used for third party integration.
OPC UA Client Interface	N/A	N/A	N/A	Supported	
IEC-61850 Protocol Interface	Supported	Supported	Supported	Supported	R5xx BCC: IEC-61850 Protocol Interface is currently not supported by R5xx BCC.
IEC-60870 Protocol Interface	Supported	Supported	Supported	Supported	R5xx BCC: IEC-60870 Protocol Interface is currently not supported by R5xx BCC.

12.5   Third Party Devices

The remaining interfaces support third-party controllers. Note that some of the interfaces require communication software manufactured by the third-party.

For third-party devices not listed here, contact Honeywell TAC to discuss options including the use of MatrikonOPC drivers.

Legacy Experion interfaces not listed here may still be supported for upgrades only. For more information, refer to the latest release specific *Experion Software Change Notice*.

SCADA Interface	Support Level				Considerations
	R410x	R43x	R50x	R51x	
ABB Totalflow	N/A	N/A	Supported	Supported	R410: Not available in Experion R410. R43x: Not available in Experion R43x. R5xx: Supported in Experion R5xx. Validated with TCI Toolkit version 3.07, an XRC6990 RTU, and also with the ABB Totalflow emulator.
Allen–Bradley Interface	Supported	Supported	Supported	Supported	It is recommended that RSLinx 4.10.00 is used for Experion R5xx. R51x: Refer to technote 395 for the solution to PAR 1–A3IXP93 (SQL dump files created every 1 hour on the R510 servers causing the C: drive to eventually fill up). Per KSM2016-009: The use of the RSLinx Classic OPC Server running on an Experion server is not supported. RSLinx Classic is only qualified to run on the Experion server when servicing Allen Bradley SCADA channels or C200s ENET/CNET connected, not running as an OPC server.
Allen–Bradley ControlLogix Interface	Supported	Supported	Supported	Supported	Matrikon OPC Server for Allen–Bradley PLC's is recommended for communications with Allen–Bradley ControlLogix PLC's.
Applicom	Not Validated	Not Validated	Not Validated	Not Validated	Honeywell has not validated this interface with Experion R410, R43x, or R5xx.. The Applicom Interface has been withdrawn from public general sale in Experion. Consider using DSA to a previous Experion Server release to interface to Applicom devices.
Asea	Not	Not	Not	Not	Honeywell has not fully validated this interface

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SCADA Interface	Support Level				Considerations
	R410x	R43x	R50x	R51x	
Interface	Validated	Validated	Validated	Validated	with Experion R410, R43x, or R5xx.. Very low risk as this is a serial interface. Honeywell plans to work with customers to validate. In the event of any issues found during validation, Honeywell support may be dependent on third party vendors.
Bailey	Not Validated	Not Validated	Not Validated	Not Validated	Honeywell has not fully validated this interface with Experion R410, R43x, or R5xx.. The Bailey Interface has been withdrawn from public general sale in Experion. Note that the Bailey software (semAPI Release 1.2) does not support the Windows Server 2008 R2 and later 64-bit platform required by Experion Server. Consider using Honeywell's migration solution for Bailey systems: https://www.honeywellprocess.com/en-US/explore/products/control-monitoring-and-safety-systems/integrated-control-and-safety-systems/third-party-system-migration/Pages/migration-solution-for-bailey-systems.aspx
Bristol Babcock Open BSI Interface	Not Validated	Validated*	Validated*	Validated*	R410: Honeywell has not validated this interface with Experion R410. Consider using a MatrikonOPC server or DSA to a previous Experion Server release to interface to Bristol Babcock OpenBSI systems. R43x: *Available in Experion R43x for approved customers only. Contact TAC if this interface is required. R5xx: *Available in Experion R5xx for approved customers only. Contact TAC if this interface is required. R5xx BCC: Expected to work but not yet validated on a BCC topology. Contact TAC if this interface is required.

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| SCADA Interface | Support Level | | | | Considerations |
	R410x	R43x	R50x	R51x	
					Reference: http://www.documentation.emersonprocess.com/groups/public/documents/instruction_manuals/d301414x012.pdf
Bristol Babcock RTU Serial Interface	Not Validated	Not Validated	Not Validated	Not Validated	Honeywell has not fully validated this interface with Experion R410 or Experion R43x or Experion R5xx. R501.2 SP1 will include fix for PAR 1–9X13M17.
Enron Modbus	N/A	Supported	Supported	Supported	R410: Not available in Experion R410. R43X: Supported in Experion R43x. Validated with "NuFlo Cameron Scanner 2000" device. R5xx: Supported in Experion R5xx. Validated with "NuFlo Cameron Scanner 2000" device.
Fisher ROC	N/A	N/A	Supported	Supported	Supports both Fisher ROC and Fisher ROC Plus protocols. R5xx: Validated in R5xx against FloBoss 107 and ROC800L devices. R5xx BCC: Expected to work but not yet validated on a BCC topology.
GE Fanuc Series 90 PLC via Ethernet	Validated	Validated	Validated	Not Validated	GE Fanuc Series 90 Interface has been qualified with GE Fanuc Host Communication Toolkit version 1.02 distributed as part of IC641SWP058B Toolkit for Windows NT C/C++ Applications. GE 9030 and GE Rx7i have been validated. Note that the GE Host Communications Toolkit has been discontinued by GE. Honeywell is not in a position to provide support for the toolkit. However, Honeywell has validated this interface to work with Experion server. The GE 9030 PLC reached end of life in

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SCADA Interface	Support Level				Considerations
	R410x	R43x	R50x	R51x	
					October 2017.
					Also refer to the Be-Aware for more details on supported models: https://www.honeywellprocess.com/library/support/notifications/Customer/BW2005-14RevA_Experion-PSc%20GE%20Fanuc.pdf
GE Series 6	Not Validated	Not Validated	Not Validated	Not Validated	Honeywell has not validated this interface with Experion R410, R43x, or R5xx. The GE Series 6 Interface has been withdrawn from public general sale in Experion. Consider using DSA to a previous Experion Server release to interface to GE Series 6 devices.
GEC GEM80 PLC Interface	Not Validated	Not Validated	Not Validated	Not Validated	Honeywell has not fully validated this interface with Experion R410, R43x, or R5xx. Honeywell plans to work with customers to validate. In the event of any issues found during validation, Honeywell support may be dependent on third party vendors.
Hitachi Interface	Not Validated	Not Validated	Not Validated	Not Validated	Honeywell has not fully validated this interface with Experion R410, R43x, or R5xx Honeywell plans to work with customers to validate. In the event of any issues found during validation, Honeywell support may be dependent on third party vendors.
Micromax LPU & Video Paperless	Not Validated	Not Validated	Not Validated	Not Validated	Honeywell has not fully validated this interface with Experion R410, R43x, or R5xx. The L&N Micromax Interface has been withdrawn from public general sale in Experion. Consider using DSA to a previous Experion Server release to interface to Micromax devices.
Moore 351, 352, 353, 383 Interface	Not Validated	Validated	Not Validated	Not Validated	Honeywell has not validated this interface with Experion R410 or Experion R5xx. This interface has been validated independently by a customer on Experion R43x. Requires Experion R430.4 or later. Very low risk as this is a serial interface. Honeywell plans to work with customers to validate. In the event of any issues found

SCADA Interface	Support Level				Considerations
	R410x	R43x	R50x	R51x	Honeywell
					during validation, Honeywell support may be dependent on third party vendors.
Moore APACS	Not Validated	Not Validated	Not Validated	Not Validated	Honeywell has not fully validated this interface with Experion R410, R43x, or R5xx..
					It is recommended that customers consider moving to the Matrikon APACS OPC Server:
					https://www.matrikonopc.com/opc-drivers/opc-apacs-direct/base-driver-details.aspx
					Related Notes: As of the date of this publication, the latest release of the Siemens software is APACS Runtime API v4.51 distributed as part of SIMATIC PCS 7/APACS+ OS Option Software V8.0 SP1.
					Consider using a MatrikonOPC server to interface to Moore APACS DCS.
					Reference: http://cache.automation.siemens.com/dnl/Dg/DgxMTIzNQAA_79061961_DL/PCS7_APACS_OS_V80_SP1_ReadMe.pdf
Omni Flow Computer	Not Validated	Not Validated	Not Validated	Not Validated	Honeywell has not fully validated this interface with Experion R410, R43x, or R5xx..
					An Omni Enhanced interface was added in Experion R500 for customers requiring EFM data from Omni Flow Computers. This has been tested with emulators, but has not been validated against Omni hardware.
					Consider using a MatrikonOPC server to interface to Omni Flow Computers. This will not be useful for reading EFM data.
					Honeywell plans to work with customers to validate. In the event of any issues found during validation, Honeywell support may be dependent on third party vendors.
Siemens S5	Not Valid	Not Valid	Not Valid	Not Valid	Honeywell has not validated this interface with Experion R410 or Experion R43x or Experion

SCADA Interface	Support Level				Considerations
	R410x	R43x	R50x	R51x	
	ated	ated	ated	ated	R5xx.. As of the date of this publication, the latest release of the Siemens software is SIMATIC NET PC Software V8.2. This release of the Siemens software does not support the TF communications protocol anymore. Consider using DSA to a previous Experion Server release to interface to Siemens S5 devices. Reference: https://cache.automation.siemens.com/dnl/jU /jUyNzc0NQAA_61630923_HB/INH_SIM-NET_76.pdf
Siemens S7	Valid ated	Valid ated	Not Valid ated	Not Valid ated	As of the date of this publication, the latest release of the Siemens software is distributed as part of SIMATIC NET PC Software V14. Honeywell plans to work with customers to validate this release. In the event of any issues found during validation, Honeywell support may be dependent on third party vendors Honeywell has validated the previous software version S7-1613 V8.1 distributed as part of SIMATIC NET PC Software V8.2. Reference: https://support.industry.siemens.com/cs/doc ument/63098071/simatic-net-dvd-v8-2-released-for-delivery?dti=0&lc=en-WW https://support.industry.siemens.com/cs/doc ument/109346876/simatic-net-dvd-v13-released-for-delivery?dti=0&lc=en-WW
Spirit IT Flow-X Interface	N/A	Sup port ed	Sup port ed	Sup port ed	R410: Not available in Experion R410. R43x, R5xx: Available in Experion R430.3 and later. Run-time data is polled through Modbus interface, and EFM data queried through HTTP Web Service. R5xx BCC: Expected to work but not yet

SCADA Interface	Support Level				Considerations
	R410x	R43x	R50x	R51x	
					validated on a BCC topology.
Texas Instruments	Not Validated	Not Validated	Not Validated	Not Validated	Honeywell has not fully validated this interface with Experion R410, R43x, or R5xx.. The Texas Instruments Interface has been withdrawn from public general sale in Experion. Consider using DSA to a previous Experion Server release to interface to Texas Instrument devices.
Yamatake MA500 Interface	Supported	Supported	Not Validated	Not Validated	Not applicable

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