Honeywell

Experion PKS

Release 511.5

Software Change Notice

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CHAPTER

1

ABOUT THIS DOCUMENT

This Software Change Notice describes the prerequisites, resolved PARs, applicable nodes, and steps to install or uninstall the point release. Additionally, this SCN contains information about the change impact and additional information for this point release. The latest version of this SCN is available on the Honeywell Process Solutions website (https://process.honeywell.com).

1.1 Revision history

Revision	Date	Description
A	September 2021	Initial release of the document.
B	December 2021	Updated the Firmware revisions section in the document.
C	January 2023	Updated the following sections: • Installing the point release on a non-redundant server node • Installing the point release on a redundant server • Installing the point release on Server A

INTRODUCTION

2.1   About this point release

This point release introduces C300PM.

> **ATTENTION**
>
> - Controller firmware upgrade or migration is only required if the system is experiencing one or more problems resolved in Controllers and Tools resolved PARs section, or customer wants to use any of the new functions in New features and enhancements.
> - If you intend to upgrade or migrate system, be sure to contact HPS Migration Centre of Excellence (COE) at least four weeks before you install this point release.
> - This Software Change Notice includes a prioritized Product Anomaly Report (PAR) summary. Contact the Honeywell Technical Assistance Center (TAC) for assistance if you observe issues which are not documented in this SCN.
> - This point release is qualified if individual server patches or TPN server patches are installed on the point releases.

> **ATTENTION**
> - New features in this point release do not impact the earlier rule of direct migrations of controllers or I/O from any point release or patch to any target release as mentioned in the site-specific migration guide and scenario-specific migration guide. For qualified controller migration paths, see Supported controller migration paths.

> **ATTENTION**
> If you upgrade or migrate to R511.5 on an R511.4 system that has Experion PKS R511.4 Server Patch 1 and HMIWeb Patch 1 or later installed on it, ensure that Experion PKS R511.5 Server or HMIWeb Update 1 is available and is installed after upgrading to R511.5. If it is not available, then do not upgrade or migrate to R511.5 until it is available.

2.2   Do I need to upgrade?

Item to Check	Reference	Yes/No
Are the new features and enhancements mandatory for my system?	See New features and enhancements section	
Are the resolved PARs needed for my system?	See Resolved PARs section	
Is this point release applicable to my system configuration?	See Applicable nodes and Applicable modules sections	
Are the limitations and known issues preventing me from upgrading?	See Known issues section	

2.3   Check for updates on Honeywell Process Solutions website

The Honeywell Process Solutions website, https://process.honeywell.com contains the most up-to-date software updates, documentation, and recommended anti virus updates. You can find the latest version of this SCN on Honeywell Process Solutions website.

2.3.1   To access the Honeywell Process Solutions website

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

    https://process.honeywell.com

    The **HOME** page appears.

2. Click **Signin** in the top-right corner of the page.

3. If you are a new user, register on this website. Click **Create an Account**, and follow the on-

screen instructions.

4. If you are already registered, type your **SIGN IN TO MYHPS** user name and password, and click **Sign in**.

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

2.3.2 To download documents, security updates, or antivirus notifications

1. Click **Support** tab.

2. Click **Product Documents & Downloads**.

The **Product Documents & Downloads** page appears as a new page.

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

For example, to download an SCN, type **Rxx.x Release Software Change Notice** in the **Search** box.

4. Click **Search**.

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

5. 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 **Documents**.

   b. Under **Document Category**, click Software Change Notice.

   c. Under **Product**, click the required product.

6. Click the document, security update, or antivirus notification link to open it.

2.3.3 To download the Knowledge Base Articles

1. Go to Honeywell Process Solutions website (https://process.honeywell.com).

2. Login using the required credentials.

3. Click **SUPPORT** tab.

4. Click **Knowledge articles** 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.

2.3.4 Validate latest FTE qualified switch firmware versions

1. Go to Honeywell Process Solutions website (https://process.honeywell.com).

2. Login using the required credentials.

3. Click **SUPPORT** tab.

4. Click **Product Documents & Downloads**.

5. In the **Search** box, type "FTE qualified switch firmware versions".

6. Click **Search**.

7. Click the document link from search results to open it.

8. Verify the FTE switches used in FTE network are installed with latest IOS.

9. Make sure the FTE switches are configured with latest configuration template.

2.3.5 To download the latest documentation

Perform the below steps to download the latest documentation:

1. To access the Honeywell Process Solutions website (process.honeywell.com). refer To access the Honeywell Process Solutions website.
2. Click **Product Documents & Downloads**.

   The **Product Documents & Downloads** page appears.
3. In the **Search** box, type the name or a keyword of the required document.
4. Click the required document to download.

2.4 Who must read this document?

The information in this guide is useful if you are planning to install, migrate, or configure the Experion PKS R511.5 system. See this guide to understand the overall product, release interoperabilities, system dependencies, problem resolutions, known issues, and special considerations. The SCN must be readily available for reference at any stage of Experion PKS R511.5 system setup.

2.5 Change impact

Change impact addresses the areas where control, operational, or infrastructural changes are delivered as part of the PAR fix. This is observed when migration occurs from a prior release to the current patch. A noticeable change in behavior is observed after installing the patch. This section describes such change in behavior.

2.5.1 Control change impact

Not Applicable.

2.5.2 Operational change impact

Not Applicable.

2.5.3 Infrastructural change impact

Not Applicable.

CHAPTER

3

CONTENTS OF THIS RELEASE

3.1   Experion User Assistance

The User Assistance, a browser-based documentation interface, provides an enhanced user experience on Computers and smart devices, such as tablets.

The User Assistance:

- Is automatically installed as part of the Installation Package. 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.

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

- Can be integrated as a Safe View 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.

3.1.1 Accessing Experion R511.5 documentation

The Experion PKS R511.5 documentation contains the following.

- The HTML User Assistance, accessed either through the Start menu or the User Assistance browser, which is launched through Station.

- An MSI for the complete User Assistance package, which can be downloaded from https://process.honeywell.com.

> **TIP**
> You can download the latest version of the User Assistance and the PDFs from https://process.honeywell.com.

3.1.2 Accessing the User Assistance

1. From the Start menu, navigate to **Honeywell Experion > Experion User Assistance**. The User Assistance appears.
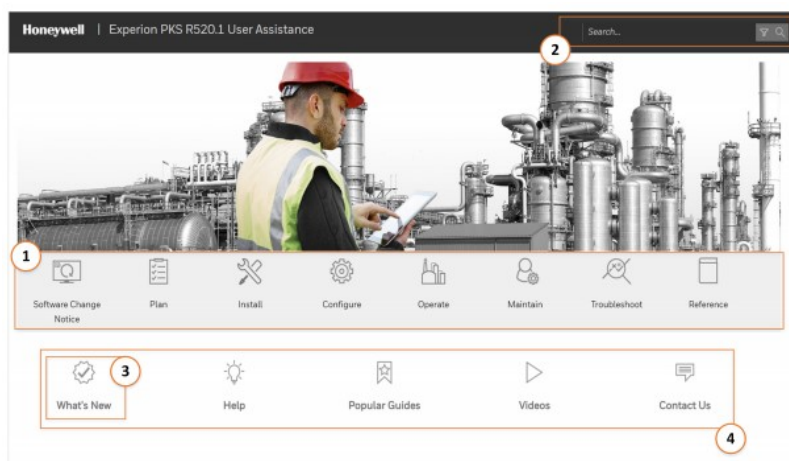
Item	Description
1	*Navigation Pane:* Lists of documents organized by task category.
2	*Search Field:* Enter words or phrases and select the **Filter** icon to minimize your search results to one of the available task categories. Click **Help** in the Navigation Pane for more tips on searching.
3	*What's 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

Item	Description
	on Honeywell Process.com, and Contact methods for providing feedback or suggestions about this User Assistance.

> **NOTE**
> 1. To view PDF files, use Microsoft Edge browser. Right-click on a PDF link and choose **Copy Link Address**. Paste the link into a new tab in your browser, and press **Enter**.
>
> 2. If you are using a different browser, click the PDF link to display the document in a new tab.

3.1.3 Contents of Experion PKS R511.5 Documentation

The Experion PKS R511.5 documentation contains the following.

- The HTML User Assistance, accessed either through the Start menu or the User Assistance browser, which is launched through Station.
- The PDFs, which are contained within the User Assistance or downloaded individually from https://process.honeywell.com.
- An MSI for the complete User Assistance package, which can be downloaded from https://process.honeywell.com.

The following table lists the documents that have been updated in ExperionExperion PKS R511.5.

Document name	Document ID
Application Control Environment Rapid Restart Solution Guide	EPDOC-X405-en-511B
Application Development Guide	EPDOC-XXX5-en-511B
AM Parameter Family Reference Dictionary	EPDOC-X687-en-511A
C200 Upgrade Tools User's Guide	EPDOC-X640-en-511J
Control Builder Component Theory	EPDOC-XX16-en-511B
Control Builder Error Code Reference	EPDOC-XX17-en-511B
Control Builder Parameter Reference	EPDOC-XX18-en-511C
Control Building User's Guide	EPDOC-XX19-en-511D
Control Builder Components Reference	EPDOC-XX15-en-511D
Control Hardware Planning Guide	EPDOC-XX23-en-511B
C300PM Overview and Implementation Guide (New)	EPDOC-X729-en-511A
C300PM Planning, Installation and Service Guide (New)	EPDOC-X734-en-511A

Document name	Document ID
EtherNetIP User Guide.	EPDOC–X399–en–511G
Experion LCN (ELCN) Engineering Operations Guide	EPDOC–X639–en–511C
Fault Tolerant Ethernet Installation and Service Guide	EPDOC–XX36–en–511B
Fault Tolerant Ethernet Overview and Implementation Guide	EPDOC–XX37–en–511B
HART I/O Implementation Guide	EPDOC–XX51–en–511B
Integrated Experion TPS Nodes User's Guide	EPDOC–XX66–en–511F
Meter Suite User's Guide	MSDOC–X308–en–511B
Migration Planning Guide	EPDOC–XX70–en–511D
MQTT Sparkplug Interface Reference	EPDOC–X702–en–511B
Network and Security Planning Guide	EPDOC–XX75–en–511C
PM Parameter Family Reference Dictionary	EPDOC–X645–en–511B
PROFINET User Guide	EPDOC–X567–en–511B
Project Engineering Users Guide	EPDOC–X471–en–511B
Sequential Control User's Guide	EPDOC–X122–en–511D
Series A Fieldbus Interface Module User's Guide	EPDOC–X124–en–511A
Series C I/O User's Guide	EPDOC–X126–en–511B
Software Installation User's Guide	EPDOC–X136–en–511E
Startup and Shutdown Guide	EPDOC–X137–en–511N
Switch Configuration Tool User's Guide	EPDOC–X246–en–511B
UOC User's Guide	EPDOC–X512–en–511E

3.2   Applicable nodes

This point release is applicable for the following nodes:

Sl.No.	Node	Experion R511.5 Applicable?
1	Application Server (EAS)	Yes
2	Application Control Environment (ACE)	Yes
3	Application Control Environment TPN Connected (ACE–T)	Yes
4	Console Station (ES–C)	Yes

Sl.No.	Node	Experion R511.5 Applicable?
5	Console Station TPN Connected (ES–T)	Yes
6	Console Extension Station (ES–CE)	Yes
7	Experion Server (ESV)	Yes
8	eServer	Yes
9	Experion Server TPN Connected (ESVT)	Yes
10	Experion HiWay Gateway (EHG)	Yes
11	Experion Application node. (E-APP)	Yes
12	Flex Station (ES-F)	Yes
13	Simulation Control Environment (SCE)	Yes
14	PHD Point Server	Yes
15	Collaboration Station	Yes
16	ELCN History Module (HM)	Yes
17	PCUS	Yes
18	Microsoft Windows Domain Controller Server 2012 Standard and R2	Yes, if R511.x components are installed.
19	Microsoft Windows Domain Controller Server 2016	Yes, if R511.x components are installed.
Sl.No.	Node	Experion R511.5 Applicable?

3.3   Applicable modules

This point release is applicable for the following modules.

Sl.No.	Module	Experion R511.5 Applicable?
1	Enhanced High–Performance Process Manager (EHPM)	Yes
2	C200CPM	No
3	C200E controller	Yes
4	C300 controller	Yes
5	C300PM	Yes
6	Ethernet Interface Module (EIM)	Yes
7	Fieldbus Interface Module (FIM)	Yes
8	Fieldbus Interface Module (FIM) 4	Yes
9	Fieldbus Interface Module (FIM) 8	Yes
10	Fault Tolerant Ethernet Bridge Module (FTEB)	Yes
11	Experion Hiway Bridge (EHB)	Yes
12	I/O Link Interface Module (IOLIM)	Yes
13	I/O Module	No
14	PROFIBUS Gateway Module (PGM) 2	Yes
15	Redundancy Module (RM)	Yes
16	RFIM	Yes
17	CF9	Yes
19	ELMM	Yes
20	ENIM	Yes
21	Enhanced NIM Bridge (ENB)	Yes
22	ELCN Bridge / Universal Embedded Appliance (UEA)	Yes
23	ETN	Yes
24	Universal Virtual Appliance (UVA)	Yes
25	Unit Operations Controller (UOC)	Yes

3.4 Supported migration and upgrade paths

The following migration paths are supported.

3.4.1 Supported controller migration paths

The following controller migration paths are supported:

Item No.	Controller path
1	Experion R410.1 (410.1.85.0)
2	Experion R410.1 CPCR1
3	Experion R410.1 CPCR2
4	Experion R410.1 CPCR3
5	Experion R410.1 CPCR4
6	Experion R410 Controller Patch 3 (410.1.85.106)
7	Experion R410 Controller Patch 4 (410.1.85.112)
8	Experion R410.2 (410.1.85.209) / (410.1.85.210)
9	Experion R410.2 CPCR1
10	Experion R410.2 CPCR2
11	Experion R410.2 CPCR3
12	Experion R410.2 CPCR4
13	Experion R410.3 (410.1.85.221)
14	Experion R410.3 CPCR1
15	Experion R410.3 CPCR2
16	Experion R410.3 CPCR3
17	Experion R410.4 (410.1.85.230)
18	Experion R410.4 CPCR1
19	Experion R410.4 CPCR2
20	Experion R410.4 CPCR3
21	Experion R410.4 CPCR4
22	Experion R410.5 (410.1.85.250)
23	Experion R410.5 CPCR1
24	Experion R410.5 CPCR2

Item No.	Controller path
25	Experion R410.5 CPCR3
26	Experion R410.6 (410.1.85.270)
27	Experion R410.6 CPCR1
28	Experion R410.6 CPCR2
29	Experion R410.6 CPCR3
30	Experion R410.6 CPCR4
31	Experion R410.7 (410.1.85.315)
32	Experion R410.7 CPCR1
33	Experion R410.7 CPCR2
34	Experion R410.7 CPCR3
35	Experion R410.8 (410.1.85.360)
36	Experion R410.8 Tools and Controller Hotfix1 up to and including Hotfix10
37	Experion R410.9 (410.1.85.433)
38	Experion R410.9 Tools and Controller Hotfix1 up to and including Hotfix13
39	Experion R430.1 (430.1.92.3)
40	Experion R430.1 CPCR1
41	Experion R430.2 (430.1.92.100)
42	Experion R430.2 CPCR1
43	Experion R430.2 CPCR2
44	Experion R430.3 (430.1.92.120)
45	Experion R430.3 CPCR1
46	Experion R430.3 CPCR2
47	Experion R430.4 (430.1.92.150)
48	Experion R430.4 Tools and Controller Hotfix1 up to and including Hotfix5
49	Experion R430.5 (430.1.92.183)
50	Experion R430.5 Tools and Controller Hotfix1 up to and including Hotfix3

Item No.	Controller path
51	Experion R430.6
52	Experion R430.6 Tools and Controller Hotfix1 up to and including Hotfix4
53	Experion R431.1 (431.1.49.1)
54	Experion R431.1 Tools and Controller Hotfix1
55	Experion R431.2 (431.1.49.103)
56	Experion R431.2 Tools and Controller Hotfix1 up to and including Hotfix4
57	Experion R431.3 (431.1.49.130)
58	Experion R431.3 Tools and Controller Hotfix1 up to and including Hotfix6
59	Experion R431.4
60	Experion R431.4 Tools and Controller Hotfix1 up to and including Hotfix6
61	Experion R431.5
62	Experion R431.5 Tools and Controller Hotfix1 up to and including Hotfix4
63	Experion R432.1
64	Experion R432.1 C200–C300 FTEB SeriesA QVCS Patch
65	Experion R432.1 Tools and Controller Hotfix1 up to and including Hotfix6
66	Experion R432.2
67	Experion R432.2 EHB Tools and Controller Hotfix 1
68	Experion R432.2 Tools and Controller Hotfix1 up to and including Hotfix10
69	Experion R500.1
70	Experion R500.1 Tools and Controller Hotfix1 up to and including Hotfix4
71	Experion R500.2
72	Experion R500.2 Tools and Controller Hotfix1 up to and including Hotfix12
73	Experion R501.1

Item No.	Controller path
74	Experion R501.1 Tools and Controller Hotfix1 up to and including Hotfix2
75	Experion R501.2
76	Experion R501.2 Tools and Controller Hotfix1 up to and including Hotfix7
77	Experion R501.4
78	Experion R501.4 Tools and Controller Hotfix1 up to and including Hotfix6
79	Experion R501.6
80	Experion R501.6 Tools and Controller Hotfix1 up to and including Hotfix6
81	Experion R510.1
82	Experion R510.1 Tools and Controller Hotfix1 up to and including Hotfix5
83	Experion R510.2
84	Experion R510.2 Tools and Controller Hotfix1 up to and including Hotfix10
85	Experion R511.1
86	Experion R511.2
87	Experion R511.2 Tools and Controller Hotfix1 up to and including Hotfix8
88	Experion R511.3
89	Experion R511.3 Tools and Controller Hotfix1 up to and including Hotfix10
90	Experion R511.4
91	Experion R511.4 Tools and Controller Hotfix1 up to and including Hotfix4

3.4.2   Supported migration and upgrade paths

1. **Supported server migration paths**

   The following server migration paths are supported.

Item No.	Direct migration of server and clients supported to R511.5 without installing R511.1
1	Experion R410.2
2	Experion R410.3
3	Experion R410.4
4	Experion R410.5
5	Experion R410.6
6	Experion R410.7
7	Experion R410.8
8	Experion R410.9
9	Experion R430.1
10	Experion R430.2
11	Experion R430.3
12	Experion R430.4
13	Experion R430.5
14	Experion R430.6
15	Experion R431.1
16	Experion R431.2
17	Experion R431.3
18	Experion R431.4
19	Experion R431.5
20	Experion R432.1
21	Experion R432.2
22	Experion R500.2
23	Experion R501.1
24	Experion R501.2

Item No.	Direct migration of server and clients supported to R511.5 without installing R511.1
25	Experion R501.4
26	Experion R501.6
27	Experion R510.1
28	Experion R510.2

2. **Supported server upgrade paths**

   Supported Server upgrade paths are:
   - R511.1 to R511.5
   - R511.2 to R511.5
   - R511.3 to R511.5
   - R511.4 to R511.5

   > **NOTE**
   > - The 'Supported Server upgrade paths' listed are also applicable to the Server patches as well.
   > - The Upgrade path to R511.5 is only supported from "R511.x" or "R511.x + HF" as per the list in Section *Supported controller migration paths*.

CHAPTER

4

Getting Started

4.1 About Experion PKS installation and migration documents

The Read Me First-Experion PKS is provided in printed form with the Experion PKS R511.5 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 R511.5 User Assistance. For migrations from R41x.x, R431.x, R432.x, R50x, R510.x to R511.5, 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 PKS system.

Name of the document	Document usage
Experion PKS R511.5 Software Change Notice	Before installing or upgrading to Experion PKS R511.5.
Getting Started with Experion PKS Software Guide	To get an overview of the Experion PKS system, and the overall installation or migration task flow.
Software Installation User's Guide	To perform a clean installation of Experion PKS R511.5.
Migration guides	Site-specific migration guides: The Upgrade Tool uses the migration guides available on the Experion PKS 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.
Supplementary Installation Tasks Guide	To complete additional tasks once you have completed installation or upgrade of Experion PKS.
Integrated Experion-TPS User's Guide	If you have Total Plant Solution (TPS) nodes in your system, use this document to perform additional mandatory tasks after the Experion PKS 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 R511.5, the Experion PKS 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 PKS, see the following documents. • 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 Upgrade checklist

1. Prerequisites
2. Applicable nodes
3. Downloading the point release media
4. Upgrade to this point release

5. Review the Experion Update Matrix and determine if any of the patches that are available for this point release are applicable to your system. If they are then download and install them. Download Experion Update Matrix at https://process.honeywell.com/library/support/software-downloads/Experion/experion-update-matrix.zip

4.3 Prerequisites

- This point release can be installed on any one of the following Experion systems installed:
    - Experion PKS R511.1

      OR
    - Experion PKS R511.2

      OR
    - Experion PKS R511.3

      OR
    - Experion PKS R511.4

- If the following line is present, the node has the appropriate product version to upgrade to this point release.
    - +Experion PKS R511.1 Support Media Install completed on MM/DD/ YYYY HH:MM:SS AM/PM

      OR
    - +Experion PKS R511.2 Support Media Install completed on MM/DD/ YYYY HH:MM:SS AM/PM

      OR
    - +Experion PKS R511.3 Support Media Install completed on MM/DD/ YYYY HH:MM:SS AM/PM

      OR
    - +Experion PKS R511.4 Support Media Install completed on MM/DD/ YYYY HH:MM:SS AM/PM

- Ensure that you take a backup of the system image (through Experion Backup and Restore) before installing this point release on any node.

- Before installing this point release, ensure that the following minimum disk space requirements are met. For information on freeing up hard disk space on an Experion node, see the Knowledge Base article *"Procedure to free up hard disk space on Experion node (109582)"*.

Applicable Node Types	Free Disk Space that is required (In GB)		
	Experion Software Path	C: Drive	Experion Run-time Path
ESVT, eServer and EAS nodes	18GB	10GB	Two times the sum of all SQL databases
Console, ES-T, ESF, Console Extension and Collaboration Station nodes	18GB	10GB	N/A
ACE, ACET, SCE, EHG, EAN, PCUS and ELCN HM nodes	8GB	10GB	N/A

- Before installing this point release on Experion Station - TPS (ES-T) and Console Extension Station (ES-CE) (which is a Remote GUS Client) node types, ensure that the IKB Service package is installed on the node. (Installation of IKB Service is MANDATORY irrespective of whether physical IKB is used or not).

  The IKB Service can be installed from the Experion Application dual layer DVD, IKB OEP package.

- Perform the upgrade readiness checks using the Upgrade Tool (UT) and/or Migration Readiness Tool (MRT) before performing Server and Controller Migration and/or Upgradation.

- For more information about UT/MRT, see the *Experion Migration Planning Guide* and *Upgrade Tool Users Guide*.

- This point release affects multiple subsystems and some other products that integrate with Experion PKS.

- If the last patch/hotfix installed on your system is a customer-specific patch / hotfix, please refer that customer-specific patch/hotfix SCN to re-check for any migration restrictions after applying that customer-specific patch/hotfix. All customer-specific patch and hotfix will be marked as "No" for Cumulative distribution under patch limitation section of their respective SCN. If you are not able to assess your situation, you can reach out to Migration COE at LSS.Migration.COE@honeywell.com .

To verify the product version, perform the following steps:

1. Using Notepad, open the **ProductVersion.txt** file located in the following path.

   `<%User selected path%>\Honeywell\Experion PKS` (for example, `C:\Program Files(X86)\Honeywell\Experion PKS`)

2. Verify the **ProductVersion.txt**. If any of the following lines are present, the node has the appropriate product version to install this point release.

- +Experion PKS R511.1 Support Media Install completed on MM/DD/ YYYY HH:MM:SS AM/PM

  OR

- +Experion PKS R511.2 Support Media Install completed on MM/DD/ YYYY HH:MM:SS AM/PM

  OR

- +Experion PKS R511.3 Support Media Install completed on MM/DD/ YYYY HH:MM:SS AM/PM

  OR

- +Experion PKS R511.4 Support Media Install completed on MM/DD/ YYYY HH:MM:SS AM/PM

4.4   Downloading the point release media

Perform the following steps before installing this point release.

1. Copy the below files to a temporary folder on the local hard disk or on the target machine (which will be upgraded):
   - **CM_EXP511.5-13.0_Experion_Updates_DVD_R511.5_51156630.z01**
   - **CM_EXP511.5-13.0_Experion_Updates_DVD_R511.5_51156630.z02**
   - **CM_EXP511.5-13.0_Experion_Updates_DVD_R511.5_51156630.z03**
   - **CM_EXP511.5-13.0_Experion_Updates_DVD_R511.5_51156630.z04**
   - **CM_EXP511.5-13.0_Experion_Updates_DVD_R511.5_51156630.z05**
   - **CM_EXP511.5-13.0_Experion_Updates_DVD_R511.5_51156630.z06**
   - **CM_EXP511.5-13.0_Experion_Updates_DVD_R511.5_51156630.z07**
   - **CM_EXP511.5-13.0_Experion_Updates_DVD_R511.5_51156630.z08**
   - **CM_EXP511.5-13.0_Experion_Updates_DVD_R511.5_51156630.z09**
   - **CM_EXP511.5-13.0_Experion_Updates_DVD_R511.5_51156630.z10**
   - **CM_EXP511.5-13.0_Experion_Updates_DVD_R511.5_51156630.z11**
   - **CM_EXP511.5-13.0_Experion_Updates_DVD_R511.5_51156630.zip**

2. Extract the zip files.

   Make sure that or equivalent is installed on your system, before extracting the files.

3. Copy the extracted files to a temporary folder on the local hard disk or on the target machine (which will be upgraded).

   The character count for the path containing the contents of the zip file must not exceed 14 characters.

   For example, when you copy the files to , the character count is 14.

   If you have installed the Whitelisting application, ensure that you follow the procedure mentioned in the *Whitelisting Implementation Guide* prior to the patch installation.

4. Perform the following to download and deploy the virtual appliance.

   You must access the Honeywell Process Solutions website from a secured computer, rather than from a node within the Experion system.

   To download and deploy virtual appliance:

      a.   You can download and deploy the virtual appliance available at this [link](#).

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

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

      d.   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.

      e.   In the Save as dialog box, in the Folder pane, choose a folder, and then the location in that selected folder where you want to save the file.

      f.   Click Save.

          For details on deploying the virtual appliance on a vUOC node, refer the section 'vUOC Deployment' in the *UOC User's Guide*.

          For details on deploying the virtual appliance on a ELCN Virtual Appliance node, refer the following sections in the *Experion LCN Overview and Implementation Guide*.

- Installing ELCN Universal Virtual Appliance using OVA Template.
- Deploying the OVF Template Manually.

4.5   What task do you want to accomplish

This section describes the tasks you need to perform depending upon your requirement.

4.5.1   Clean installation of R511.5

1. Create the Experion PKS Support Software media by downloading the latest point release media content from https://process.honeywell.com website.
   - Refer [Downloading the point release media](#) for downloading the media.

2. Refer [Downloading the point release media](#) for extracting zip files and copying it to a temporary folder on the local hard disk or on the target machine (which will be upgraded).

3. Refer to point 1 and 2 of the [Pre-requisites](#) section.

4. Start installation. See the *Experion Software Installation User's Guide* for assistance in installation.

4.5.2   Upgrade to this point release

Before upgrading to this point release, register with the Migration COE by raising a new request at least 6 weeks before performing the upgrade/migration procedure. You can raise a request either by contacting your local Honeywell Process Solutions Customer Contact Center (CCC) or visiting https://process.honeywell.com and navigating to the MIGRATION ASSISTANT tab or contact Migration COE at LSS.Migration.coe@honeywell.com.

1. Create the Experion PKS Support Software media by downloading the latest point release media content from https://process.honeywell.com website.
   - Refer [Downloading the point release media](#) for downloading the media.

2. Refer [Downloading the point release media](#) section for extracting zip files and copying it to a temporary folder on the local hard disk or on the target machine (which will be upgraded).

3. Start upgrade. See section [Installation of the point release](#).

4.5.3　Migrate from previous releases to Release 511

> **NOTE** Before migrating to this point release, register with the Migration COE by raising a new request at least 6 weeks before performing the upgrade/migration procedure. You can raise a request either by contacting your local Honeywell Process Solutions Customer Contact Center (CCC) or visiting https://process.honeywell.com and navigating to the MIGRATION ASSISTANT tab or contact Migration COE at LSS.Migration.coe@honeywell.com.

For example, you can migrate from Experion PKS R510.1 to Experion PKS RRelease 511. You need not migrate to R511.1 first and then upgrade to RRelease 511. For more details, see the *Experion Migration Planning Guide*.

To migrate to R511.5 from previous releases:

1. Create the Experion PKS **Support Software media** by downloading the latest point release media content from https://process.honeywell.com website.

   - See Downloading the point release media for downloading the media.

2. See Downloading the point release media for extracting zip files and copying it to a temporary folder on the local hard disk or on the target machine (hich will be upgraded).

3. **Prerequisites:**

   a. Take a backup of the system image using Experion Backup and Restore before installing this point release on any node.

   b. Enable Windows firewall.

4. Verify the present version.

   a. Using Notepad, open the **ProductVersion.txt** file located in the following path.

      <%User selected path%>\Honeywell\Experion PKS

      For example, C:\Program Files(X86)\Honeywell\Experion PKS

   b. In the **ProductVersion.txt**, verify if one of the following lines is present. These lines indicate that the node has the appropriate product version to migrate to this point release.

      - ++Experion PKS R410.x Install completed on MM/DD/ YYYY HH:MM:SS AM/PM
      - ++Experion PKS R430.x Install completed on MM/DD/ YYYY HH:MM:SS AM/PM
      - ++Experion PKS R43X.x Install completed on MM/DD/ YYYY HH:MM:SS AM/PM
      - ++Experion PKS R431.x Install completed on MM/DD/ YYYY HH:MM:SS AM/PM
      - ++Experion PKS R432.x Install completed on MM/DD/ YYYY HH:MM:SS AM/PM
      - ++Experion PKS R500.x Install completed on MM/DD/ YYYY HH:MM:SS AM/PM
      - ++Experion PKS R501.x Install completed on MM/DD/ YYYY HH:MM:SS AM/PM
      - ++Experion PKS R510.x Install completed on MM/DD/ YYYY HH:MM:SS AM/PM

      Here, "x" indicates the subsequent migration path as mentioned in the section "Supported server migration paths".

5. Start migration. See *Experion Migration Planning Guide* for assistance in migration.

Server client migration

The different server client migration and installation scenarios supported for Experion R511.5 are described in the *Experion Migration Planning Guide*. The document also describes the Microsoft Windows operating systems supported for different Experion node types and the behavior of the Install Sequencer when it is run on the system. Some migration scenarios may require a hardware upgrade.

Controller migration

> **ATTENTION**
> Controller migration is optional, it is only required when a controller-related error needs to be fixed. See the list of <u>Controllers and Tools resolved PARs</u> in this SCN. Server/client-related fixes are decoupled from the controller-related fixes.

The migration of controllers and control hardware can be performed in a number of ways, depending upon the system topology and the compliment of the installed I/O. Typical scenarios are described in the *Experion Migration Planning Guide*. Note that controller migration is performed, after server/client migration is completed.

4.6 Installation of the point release

This point release must be installed on Experion nodes in the following order. See the respective installation sections in the document.

SI.No.	Experion nodes	See the section…
1	Server B	<u>Installing the point release on Server B</u>
2	Non-redundant server	<u>Installing the point release on a non-redundant server node</u>
3	Flex station Collaboration station	<u>Installing the point release on Experion Application Server/Console/Flex/T-Nodes/Collaboration Station/Console Extension Station/eServer/Premium Access Clients</u>
4	Console station	<u>Installing the point release on Experion Application Server/ Console/Flex/Console Extension station/eServer/Premium Access clients</u>
5	Server A	<u>Installing the point release on Server A</u>
6	ACE/SCE/EHG	<u>Installing the point release on ACE/ SCE/ EHG</u>
7	E-APP/Experion Application Server/eServer	<u>Installing the point release on Experion Application Server/ Console/Flex/Console Extension station/eServer/Premium Access clients</u>
8	ELCN History Module (HM)	<u>Installing the point release on ELCN History Module</u>

> **NOTE :**
>
> If you are using Experion Support and Maintenance (ESM) to install the point release on the Experion cluster, add the point release to the ESM Server. For more information, see the *Installation Builder User's Guide*.

> **ATTENTION** :
>
> Relative to the database size and components to be installed, installation of this point release may take few hours to complete.

4.6.1   Installing the point release on a non-redundant server node

> **NOTE**
>
> You must execute the tool before any upgrade activity to identify any potential database related issue which may cause an upgrade failure in future.

Pre-installation steps

1. Ensure that you are logged on to the server using an account that is part of both the Windows Administrators and the Product Administrators group. It is not recommended to use HPSInstall account as it is a temporary account used for installation/migration purpose only.

   > **ATTENTION**
   >
   > Ensure that you log on with the required privileges.

2. **For systems with licensed QVCS only:** Open the QVCS Manager application and complete the required Qualification and Version Control System (QVCS) operations (for example: Check in, Check out, revert, and so on). Close the QVCS Manager application manually.

3. Perform the following Checkpoint tasks.

   a. Disable all the Checkpoint tasks; click **Stop** for all the scheduled Checkpoint tasks.

      > **ATTENTION**
      >
      > Checkpoint tasks that are currently executing must be completed. Ensure that all the automatic or manual tasks are complete.

   b. Ensure that the Checkpoint share has replicated correctly to all the Console stations.

   c. To verify the replication of the Checkpoint shares, check the **Event Summary Display** page on the Station after the manual/auto **Checkpoint Saves** are completed for all controllers. If the **Event Summary Display** page does not display any replication failure event, the replication is successful.

4. Disable all virus scan/protection/backup applications or services. If the DVM Logger service is present, it must be disabled.

   > **ATTENTION**

> You must enable the services after completing the procedure.

5. Close all the running applications.

Stopping the services

Before installing the point release, you must stop the SNMP services. If PMD is installed, use PDS Server tool from **Start** > **All Programs** > **PMD** > **Start Or Stop PDS Server** and stop the PMD services.

Perform the following steps to stop all services manually.

1. Choose **Start > Honeywell Experion Tools**.

2. Right-click **Experion PKS Services Control Panel** and then select **More > Run as Administrator**.

3. Click the **Stop all Services** and click **OK**.

ATTENTION

Installing the point release on a non-redundant server leads to a loss of view until the system has a console station in the running state.

If service is in the running state, perform following steps to stop the service.

1. Click , type *Services.msc* and press .

2. Right-click and click to stop the service.

Preventive steps:

Install FTE driver manually post R511.5 upgrade.

Before upgrade:

1. Browse to <R511.5 media>\Packages\FTEDriver.

2. Rename FTEDriver folder (Ex:FTEDriver_temp).

3. Proceed with R511.5 upgrade procedure.

Installing the point release

1. If you are using Experion Support and Maintenance (ESM) to install the point release, install the point release from the ESM client. For more information, see *Installation Builder User's Guide*. If you are not using ESM to install the point release, go to step 2.

2. Browse to the folder containing the installer **Experion PKS RRelease 511 > supportsoftware.exe**. If the installation is from the network, then map the location where the installer folder is located to the network drive. If the installation is from an ISO image, then mount the image to a drive on the system.

> **ATTENTION**
>
> a. In the command prompt, as an Administrator, type the following command. (for example,).
> b. Ensure that the path mapped (for example, \\192.168.10.3\temp\<point release>) has both 'Read' and 'Write' permissions.
> c. Type the user name and password (must be in quotes if there is a blank).
> d. In the same command prompt window, change to the above mapped drive and run **supportsoftware.exe**.

3. Right-click **supportsoftware.exe** and then click **Run as Administrator**. If the **User Account Control** dialog box is displayed, click **Yes** to continue.

   The **Welcome to Experion PKS Update Manager** dialog box appears.

4. Click **Next** and enter the Password in the Login Credentials panel to perform the auto log on after restart.

5. Enter the **Experion Account passwords** to continue.

6. Enter and confirm the **Security Password** to continue.

> **NOTE**
>
> The **Security Password** is used to encrypt the user inputs captured during a particular instance of installation/upgrade. The security password need not be the same for every installation/upgrade.

7. Click **Next** to start the installation.

> **ATTENTION**
>
> - If the installation is being performed from the network, acknowledge the User Account Control prompt after each system restart.
> - You may see the following error message related to service which causes the installation to abort. Stop the service manually after acknowledging the message and restart the installation.
>
>   *Failed to stop <service name>. Installation will be aborted now.*
>
> - If the installation is being performed from the network, and the automatic network mapping does not occur, then, the user has to map it manually and re-run the **supportsoftware.exe**.
> - If the installation is being performed from an ISO image mounted on the system, then automatic remounting does not happen after the system reboots during point release installation. The user has to mount the ISO image again to the same drive and run **supportsoftware.exe** to resume the installation.

8. Follow the on-screen instructions and click **Finish**. The node restarts after the installation is complete.

9. Click Start > Run, type Services.msc and press Enter.

10. Disable the "Experion PKS GCL Name Server" Service by selecting its "Startup type" to "Disabled."

11. Delete psc_status.txt if exists under following Experion software installation location:

    C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt.

12. Copy FTEDriver folder (Before upgrade, step 2) to C:\temp.

13. Open Command prompt in administrator privileges.

14. Run following command.

    Cd C:\temp\FTEDriver.

15. Run following command –

    Ftemux_wrapper.exe "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt" "C:\program files(x86)\Honeywell\Experion PKS\install\FTEUninstall.log".

16. Wait for 5mins and now go to following file, you should see SUCCESS, REBOOT, RECALL.

    "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt".

17. Reboot the machine.

    Delete psc_status.txt – "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt".

18. Open Command prompt in administrator privileges.

19. Run following command–

    Cd C:\temp\FTEDriver.

20. Run following command –

    Ftemux_wrapper.exe "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt" "C:\program files(x86)\Honeywell\Experion PKS\install\FTEinstall.log".

21. Wait for 5mins and now go to following file, you should see SUCCESS, REBOOT, RECALL.

    "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt".

22. Click Start > Run, type Services.msc and press Enter.

23. Enable the "Experion PKS GCL Name Server" Service by selecting its "Startup type" to "Automatic".

24. Reboot the machine.

Validating the point release installation

1. Using Notepad, open the **ProductVersion.txt** file located in the following path.

   `C:\Program Files(X86)\Honeywell\Experion` PKS OR <User selected path>\Honeywell\Experion PKS.

2. Verify the **ProductVersion.txt** for the following:

   +Experion PKS R511.5 Install completed on MM/DD/YYYY HH:MM:SS AM/PM

   If the above line is present, it indicates that the installation is successful.

> **NOTE**
>
> After this point release is installed, the majority of release references will state Experion PKS R511.5, but there are a few instances where the release reference will still point to Experion PKSa prior release. For example, Experion Maintenance Manager and ProductVersion.txt. This is an expected behavior.

Post-installation tasks

1. Log on as a member of Windows Administrators and Product Administrators group.

2. From Station or Control Builder, rebuild/save checkpoint and enable all the Checkpoint tasks.

3. Enable all virus scan/protection/backup applications or services. If the DVM Logger service is present and disabled, it must be enabled.

4. Perform the following steps to migrate the Quick Builder project.

    a. Open **Configuration Studio**.

    b. Select **Build Channels**.

       The Quick Builder migration wizard appears.

    c. Click **Next** to proceed with the migration.

    d. Click **Finish** to complete the migration. The Quick Builder project opens automatically.

> **ATTENTION**
>
> During the migration, you may come across the page, with the appearance of in the list. Ignore the prompt and proceed with the migration.

5. To uninstall Silverlight if it has not been uninstalled

    a. Navigate to Start Menu > Control Panel > Programs > Uninstall a Program.

6. Perform the following steps to apply a new file replication entries.

    a. Type the following command in the command prompt:

hscconfig/PROFINETGSDMLCATALOGFILEREP

4.6.2   Installing the point release on a redundant server

Honeywell recommends that for redundant servers you first install the point release on Server B, followed by one Client to perform system tests before promptly migrating Server A. Once Server A is migrated, the remaining Clients and then Controllers can be migrated.

Installing the point release on Server B

> **NOTE**
>
> You must execute the tool before any upgrade activity to identify any potential database related issue which may cause a migration failure in future.

Pre-installation steps

1. Ensure that you are logged on to the server using an account that is part of both the Windows Administrators and the Product Administrators group. It is not recommended to use HPS Install account as it is a temporary account used for installation/migration purpose only.

> **ATTENTION**
>
> Ensure that you log on with the required privileges.

2. Confirm that Server A is primary.

3. Turn off file replication of the mapping and view files.

   a. In Station, click **Configure > File Replication**. Do not change the **Send** check box in this display.

   b. Click **mapping** entry.

      The configuration page for **mapping** file replication entry appears.

   c. Clear the **Replicate files from this path** check box.

   d. Click **Save**.

   e. In Station, click **Configure > File Replication**.

   f. Click **Views** entry (views should be bold, like mapping).

   g. Select the **Replicate files from this path** check box.

   h. Click **Save**.

4. If the servers are not synchronized, click **Synchronize**.

5. Continue with the following steps on Server B.

6. Perform the following Checkpoint tasks.

   a. Disable all the Checkpoint tasks; click **Stop** for all the scheduled Checkpoint tasks.

   > **ATTENTION**
   >
   > Checkpoint tasks that are currently executing must be completed. Ensure that all the automatic or manual tasks are complete.

   b. Ensure that the CPBASE and Checkpoint shares have replicated correctly between Server B and Server A.

   c. Ensure that the Checkpoint share has replicated correctly to all the Console stations.

   d. To verify the CPBASE and the replication of the Checkpoint shares, check the **Event Summary Display** page on the Station after the manual/auto **Checkpoint Saves** are completed for all controllers. If the **Event Summary Display** page does not display any replication failure event, the replication is successful.

7. **For systems with licensed QVCS only:** Open the QVCS Manager application and complete the required Qualification and Version Control System (QVCS) operations (for example: Check in, Check out, revert, and so on). Close the QVCS Manager application manually.

8. Disable all virus scan/protection/backup applications or services. If the DVM Logger service is present, it must be disabled.

   > **ATTENTION**
   >
   > You must enable the services after completing the procedure.

9. Perform the following steps to disable Engineering Repository Database (ERDB) replication.

   a. Open **Configuration Studio**.

   b. Select **Administer Control Strategy Database**. Perform the required steps to disable ERDB replication.

10. Perform the following steps to disable EMDB replication.

    a. Open **Configuration Studio**.

    b. Select **Administer the System Database**. Perform the required steps to disable EMDB replication.

11. Close all the running applications.

    The installer automatically stops most of the required Experion services. However, certain services that are not stopped by the installer must be stopped manually.

12. Disable the **Experion PKS Server System** service. To disable the **Experion PKS Server System** service, perform the following steps.

    a. Choose **Start > All Programs > Accessories > Command Prompt**.

    b. Right–click **Command Prompt** and click **Run as Administrator**. Click **Yes** in the prompt to continue.

    c. In the **Command Prompt**, type the following command `sc config HSCSERVER_ System start= disabled` and click ENTER (the command must have a space after the equal sign).

    d. Ensure that you see the following message once the **Experion PKS Server System** service is disabled successfully `[SC] ChangeServiceConfig SUCCESS`.

Stopping the services

Before installing the point release, you must stop the SNMP services. If PMD is installed, use PDS Server tool from **Start** > **All Programs** > **PMD** > **Start Or Stop PDS Server** and stop the PMD services.

Perform the following steps to stop all services manually.

1. Choose **Start > Honeywell Experion Tools**.

2. Right–click **Experion PKS Services Control Panel** and then select **More > Run as Administrator**.

3. Click **Stop all Services** and then click **OK**.

Preventive steps:

Install FTE driver manually post R511.5 upgrade.

Before upgrade:

1. Browse to <R511.5 media>\Packages\FTEDriver.

2. Rename FTEDriver folder (Ex:FTEDriver_temp).

3. Proceed with R511.5 upgrade procedure.

Installing the point release

1. If you are using Experion Support and Maintenance (ESM) to install the point release, install the point release from the ESM client. For more information, see the *Installation Builder User's guide*. If you are not using ESM to install the point release, go to step 2.

2. Browse to the folder containing the installer **Experion PKS RRelease 511 > supportsoftware.exe**. If the installation is from the network, then map the location where the installer folder is located to the network drive. If the installation is from an ISO image, then mount the image to a drive on the system.

> **ATTENTION**
>
> a. In the command prompt, as an Administrator, type the following command.
>   (for example,)
>
> b. Ensure that the path mapped (for example, \\192.168.10.3\temp\<point
>   release>) has both 'Read' and 'Write' permissions.
>
> c. Type the user name and password (must be in quotes if there is a blank).
>
> d. In the same command prompt window, change to the above mapped drive
>   and run supportsoftware.exe.

3. Right-click **supportsoftware.exe** and then click **Run as Administrator**. If the **User Account Control** dialog box is displayed, click **Yes** to continue.

   The **Welcome to Experion PKS Update Manager** dialog box appears.

4. Click **Next** and enter the Password in the Login Credentials panel to perform the auto logon after restart. Confirm that you have resolved all ERDB inconsistencies by selecting the **ECC** check box.

5. Click **Next** to start the installation.

> **ATTENTION**
>
> - If the installation is being performed from the network, acknowledge the User
>   Account Control prompt after each system restart.
>
> - You may see the following error message related to service which causes the
>   installation to abort. Stop the service manually after acknowledging the
>   message and restart the installation.
>
>   *Failed to stop <service name>. Installation aborts.*
>
> - If the installation is being performed from the network, and the automatic
>   network mapping does not occur, then, the user has to map it manually and re-
>   run the **supportsoftware.exe**.
>
> - If the installation is being performed from an ISO image mounted on the
>   system, then automatic remounting does not happen after the system reboots
>   during point release installation. The user has to mount the ISO image again to
>   the same drive and run **supportsoftware.exe** to resume the installation.

6. Follow the on-screen instructions and click **Finish**. The node restarts after the installation is complete.

7. Click Start > Run, type Services.msc and press Enter.

8. Disable the "Experion PKS GCL Name Server" Service by selecting its "Startup type" to "Disabled".

9. Delete psc_status.txt if exists under following Experion software installation location:

   C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt.

10. Copy FTEDriver folder (Before upgrade, step 2) to C:\temp.

11. Open Command prompt in administrator privileges.

12. Run following command-

    Cd C:\temp\FTEDriver.

13. Run following command –

Ftemux_wrapper.exe "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt" "C:\program files(x86)\Honeywell\Experion PKS\install\FTEUninstall.log".

14. Wait for 5mins and now go to following file, you should see SUCCESS, REBOOT, RECALL.

    "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt".

15. Reboot the machine.

16. Delete psc_status.txt – "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt".

17. Open Command prompt in administrator privileges.

18. Run following command–

    Cd C:\temp\FTEDriver.

19. Run following command –

    Ftemux_wrapper.exe "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt" "C:\program files(x86)\Honeywell\Experion PKS\install\FTEinstall.log".

20. Wait for 5mins and now go to following file, you should see SUCCESS, REBOOT, NORECALL.

    "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt".

21. Click Start > Run, type Services.msc and press Enter.

22. Enable the "Experion PKS GCL Name Server" Service by selecting its "Startup type" to "Automatic".

23. Reboot the machine.

24. Start the Experion PKS Server System service. To start the Experion PKS Server System service, perform the following steps:

    a. Choose **Start > All Programs > Accessories > Command Prompt**.

    b. Right-click **Command Prompt** and click **Run as Administrator**. Click **Yes** in the prompt to continue.

    c. In the Command Prompt, type the following command *sc config HSCSERVER_System start= auto* and press **Enter** (the command must have a space after the equal sign).

    d. Ensure that the following message is displayed **[SC] ChangeServiceConfig SUCCESS**.

Post-installation tasks

1. Log on as a member of Windows Administrators and Product Administrators group.

2. Click **Start** > **All Programs** > **Honeywell Experion PKS** > **Server** > **Station** to start the station.

3. On the **Redundancy** tab, click **Synchronize** to synchronize the servers.

4. Click **Manual Failover**. The server switchover takes place.

> **ATTENTION**
>
> Server B becomes primary.

5. If you have plan to install the point release on client nodes before installing on Server A, then on the **Redundancy** tab, click **Synchronize** to synchronize the serves. And also, confirm the connectivity to Server B from client nodes before installing point release on Server A.

6. Enable all virus scan/protection/backup applications or services. If the DVM Logger service is present and disabled, it must be enabled.

7. Perform the following steps to migrate the Quick Builder project.

   a. Open **Configuration Studio**.

   b. Select **Build Channels**.

      The Quick Builder migration wizard appears.

   c. Click **Next** to proceed with the migration.

   d. Click **Finish** to complete the migration. The Quick Builder project opens automatically.

   > **ATTENTION**
   >
   > During the migration, you may come across the page, with the appearance of in the list. Ignore the prompt and proceed with the migration.

8. To uninstall Silverlight if it has not been uninstalled

   a. Navigate to Start Menu > Control Panel > Programs > Uninstall a Program.

   b. Double-click "Microsoft Silverlight" and continue to confirm/acknowledge to uninstall the program.

Installing the point release on Server A

> **NOTE**
>
> After installing this point release on Server B, continue with point release installation on Flex Station and Console Station nodes before proceeding with point release installation on Server A.

Pre-installation steps

1. Ensure that you are logged on to the server using an account that is part of both the Windows Administrators and the Product Administrators group. It is not recommended to use HPSInstall account as it is a temporary account used for installation/migration purpose only.

   > **ATTENTION**
   >
   > Ensure that you log on with the required privileges.

2. Confirm that Server B is primary.

3. Disable all virus scan/protection/backup applications or services. If the DVM Logger service is present, it must be disabled.

   > **ATTENTION**
   >
   > You must enable the services after completing the procedure.

4. Close all the running applications.

   The installer automatically stops most of the required Experion services. However, certain services that are not stopped by the installer must be stopped manually.

5. Disable the **Experion PKS Server System** service. To disable the **Experion PKS Server System** service, perform the following steps.

   a. Choose **Start > All Programs > Accessories > Command Prompt**.

   b. Right-click **Command Prompt** and click **Run as Administrator**. Click **Yes** in the prompt to continue.

   c. In the **Command Prompt**, type the following command `sc config HSCSERVER_ System start= disabled` and click ENTER (the command must have a space after the equal sign).

   d. Ensure that you see the following message once the **Experion PKS Server System** service is disabled successfully `[SC] ChangeServiceConfig SUCCESS`.

Stopping the services

Before installing the point release, you must stop the SNMP services. If PMD is installed, use PDS Server tool from **Start** > **All Programs** > **PMD** > **Start Or Stop PDS Server** and stop the PMD services.

Perform the following steps to stop all services manually.

1. Choose **Start > Honeywell Experion Tools**.

2. Right-click **Experion PKS Services Control Panel** and then select **More > Run as Administrator**.

3. Click the **Stop all Services** and click **OK**.

Preventive steps:

Follow the below steps before starting the R511.5 upgrade process on the node:

1. Click Start > Run, type Services.msc and press Enter.

2. Disable the "Experion PKS GCL Name Server" Service by selecting its "Startup type" to "Disabled".

Installing the point release

1. If you are using Experion Support and Maintenance (ESM) to install the point release, install the point release from the ESM client. For more information, see the *Installation Builder User's guide*. If you are not using ESM to install the point release, go to step 2.

2. Browse to the folder containing the installer **Experion PKS RRelease 511 > supportsoftware.exe**. If the installation is from the network, then map the location where the installer folder is located to the network drive. If the installation is from an ISO image, then mount the image to a drive on the system.

> **ATTENTION**
>
> a. In the command prompt, as an Administrator, type the following command.
>   (for example,)
>
> b. Ensure that the path mapped (for example, \\192.168.10.3\temp\<point

> release>) has both 'Read' and 'Write' permissions.
>
> c. Type the user name and password (must be in quotes if there is a blank).
>
> d. In the same command prompt window, change to the above mapped drive and run supportsoftware.exe.

3. Right-click **supportsoftware.exe** and then click **Run as Administrator**. If the **User Account Control** dialog box is displayed, click **Yes** to continue.

    The **Welcome to Experion PKS Update Manager** dialog box appears.

4. Click **Next** and enter the Password in the Login Credentials panel to perform the auto logon after restart. Confirm that you have resolved all ERDB inconsistencies by selecting the **ECC** check box.

5. Click **Next** to start the installation.

ATTENTION

- If the installation is being performed from the network, acknowledge the User Account Control prompt after each system restart.

- You may see the following error message related to service which causes the installation to abort. Stop the service manually after acknowledging the message and restart the installation.

  Failed to stop <service name>. Installation aborts.

- If the installation is being performed from the network, and the automatic network mapping does not occur, then, the user has to map it manually and re-run the **supportsoftware.exe**.

- If the installation is being performed from an ISO image mounted on the system, then automatic remounting does not happen after the system reboots during point release installation. The user has to mount the ISO image again to the same drive and run **supportsoftware.exe** to resume the installation.

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6. Follow the on-screen instructions and click **Finish**. The node restarts after the installation is complete.

7. Start the Experion PKS Server System service. To start the Experion PKS Server System service, perform the following steps:

    a. Choose **Start > All Programs > Accessories > Command Prompt**.

    b. Right-click **Command Prompt** and click **Run as Administrator**. Click **Yes** in the prompt to continue.

    c. In the Command Prompt, type the following command *sc config HSCSERVER_System start= auto* and press **Enter** (the command must have a space after the equal sign).

    d. Ensure that the following message is displayed **[SC] ChangeServiceConfig SUCCESS**.

8. Enable the "Experion PKS GCL Name Server" Service by selecting its "Startup type" to "Automatic".

Validating the point release installation

1. Using Notepad, open the **ProductVersion.txt** file located in the following path.

    `C:\Program Files(X86)\Honeywell\Experion` PKS OR <User selected path>\Honeywell\Experion PKS.

2. Verify the **ProductVersion.txt** for the following:

    +Experion PKS R511.5 Install completed on MM/DD/YYYY HH:MM:SS AM/PM

If the above line is present, it indicates that the installation is successful.

> **NOTE**
>
> After this point release is installed, the majority of release references will state Experion PKS R511.5, but there are a few instances where the release reference will still point to Experion PKSa prior release. For example, Experion Maintenance Manager and ProductVersion.txt. This is an expected behavior.

Post-installation tasks

1. Log on as a member of Windows Administrators and Product Administrators group.
2. From Station or Control Builder, Rebuild/save checkpoint and enable all the Checkpoint tasks.

> **ATTENTION**
>
> This step must be performed on Server B.

   a. Open **Configuration Studio**.
   b. Select **Administer Control Strategy Database**. Perform the required steps to enable ERDB replication.
3. Perform the following steps to enable EMDB replication.

> **ATTENTION**
>
> This step must be performed on Server B.

   a. Open **Configuration Studio**.
   b. Select **Administer the System Database**. Perform the required steps to enable EMDB replication.
4. Click **Start** > **All Programs** > **Honeywell Experion PKS** > **Server** > **Station** to start the station.
5. On the **Redundancy** tab, click **Synchronize** to synchronize the servers.
6. Click **Manual Failover**. The server switchover takes place.

> **ATTENTION**
>
> Server A becomes primary.

7. Click **Synchronize** to synchronize the servers.

8. Turn on file replication of the mapping and view files.

   a. In Station, click **Configure > File Replication**. Do not change **Send** check box in this display.

   b. Click **mapping** entry.

      The configuration page for **mapping** file replication entry appears.

   c. Select **Replicate files from this path** check box.

   d. Click **Save**.

   e. In Station, click **Configure > File Replication** once more.

   f. Click **View** entry.

   g. Select the **Replicate files from this path** checkbox.

   h. Click **Save**.

9. Enable all virus scan/protection/backup applications or services. If the DVM Logger service is present and disabled, it must be enabled.

10. Perform the following steps to apply a new file replication entries

    a. Type the following in the command prompt::

       "hscconfig/PROFINETGSDMLCATALOGFILEREP"

11. From Station or Control Builder, enable all the Checkpoint tasks.

12. If the point release has been already installed on the Server B, then perform the following steps to migrate the Quick Builder project.

    a. Open **Configuration Studio**.

    b. Select **Build Channels**.

       The Quick Builder migration wizard appears.

    c. Click **Next** to proceed with the migration.

    d. Click **Finish** to complete the migration. The Quick Builder project opens automatically.

ATTENTION

During the migration, you may come across the page, with the appearance of in the list. Ignore the prompt and proceed with the migration.

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13. To uninstall Silverlight if it has not been uninstalled

    a. Navigate to Start Menu > Control Panel > Programs > Uninstall a Program.

    b. Double-click "Microsoft Silverlight" and continue to confirm/acknowledge to uninstall the program.

4.6.3 Installing the point release on Experion Application Server/Console/Flex/T-Nodes/Collaboration Station/Console Extension Station/eServer/Premium Access Clients

Pre-installation steps

1. Ensure that you are logged on to the server using an account that is part of both the Windows Administrators and the Product Administrators group. It is not recommended to use HPSInstall account as it is a temporary account used for installation/migration purpose only.

> **ATTENTION**
> Ensure that you log on with the required privileges.

2. **For systems with licensed QVCS only:** Open the QVCS Manager application and complete the required Qualification and Version Control System (QVCS) operations (for example: Check in, Check out, revert, and so on). Close the QVCS Manager application manually.

3. Perform the following Checkpoint tasks.

   a. Disable all Checkpoint tasks; click **Stop** for all the scheduled Checkpoint tasks.

   > **ATTENTION**
   > Any currently executing Checkpoint tasks must be completed before continuing. Ensure that all the automatic or manual tasks are complete. Checkpoint file replication fail alarm is generated if Checkpoint file replication is enabled and Checkpoint schedule is during console patch up-gradation.

   b. Ensure that the Checkpoint share has replicated correctly to all the Console stations.

   c. To verify the replication of the Checkpoint shares, check the **Event Summary Display** page on the Station after the manual/auto **Checkpoint Saves** are completed for all controllers. If the **Event Summary Display** page does not display any replication failure event, the replication is successful.

4. Disable all virus scan/protection/backup applications or services. If the DVM Logger service is present, it must be disabled.

   > **ATTENTION**
   > You must enable the services after completing the procedure.

5. Close all running applications.

Stopping the services

Before installing the point release, you must stop the SNMP services. If PMD is installed, use PDS Server tool from **Start** > **All Programs** > **PMD** > **Start Or Stop PDS Server** and stop the PMD services.

Perform the following steps to stop all services manually.

1. Choose **Start > Honeywell Experion Tools**.
2. Right-click **Experion PKS Services Control Panel** and then select **More > Run as Administrator**.
3. Click the **Stop all Services** and click **OK**.

Installing the point release

1. If you are using Experion Support and Maintenance (ESM) to install the point release, install the point release from the ESM client. For more information, see *Installation Builder User's Guide*. If you are not using ESM to install the point release, go to step 2.

2. Browse to the folder containing the installer **Experion PKS RRelease 51.1 > supportsoftware.exe**. If the installation is from the network, then map the location where the installer folder is located to the network drive. If the installation is from an ISO image, then mount the image to a drive on the system.

> **ATTENTION**
>
> a. In the command prompt, as an Administrator, type the following command. (for example,).
> b. Ensure that the path mapped (for example, \\192.168.10.3\temp\<point release>) has both 'Read' and 'Write' permissions.
> c. Type the user name and password (must be in quotes if there is a blank).
> d. In the same command prompt window, change to the above mapped drive and run **supportsoftware.exe**.

3. Right-click **supportsoftware.exe** and then click **Run as Administrator**. If the **User Account Control** dialog box is displayed, click **Yes** to continue.

   The **Welcome to Experion PKS Update Manager** dialog box appears.

4. Click **Next** and enter the Password in the Login Credentials panel to perform the auto log on after restart.

5. Enter the **Experion Account passwords** to continue.

6. Enter and confirm the **Security Password** to continue.

> **NOTE**
> The **Security Password** is used to encrypt the user inputs captured during a particular instance of installation/upgrade. The security password need not be the same for every installation/upgrade.

7. Click **Next** to start the installation.

> **ATTENTION**
>
> - If the installation is being performed from the network, acknowledge the User Account Control prompt after each system restart.
> - You may see the following error message related to service which causes the installation to abort. Stop the service manually after acknowledging the message and restart the installation.
>
>   *Failed to stop <service name>. Installation will be aborted now.*
>
> - If the installation is being performed from the network, and the automatic network mapping does not occur, then, the user has to map it manually and re-run the **supportsoftware.exe**.
> - If the installation is being performed from an ISO image mounted on the system, then automatic remounting does not happen after the system reboots during point release installation. The user has to mount the ISO image again to the same drive and run **supportsoftware.exe** to resume the installation.

8. Follow the on-screen instructions and click **Finish**. The node restarts after the installation is complete.

9. Click Start > Run, type Services.msc and press Enter.

10. Disable the "Experion PKS GCL Name Server" Service by selecting its "Startup type" to "Disabled."

11. Delete psc_status.txt if exists under following Experion software installation location:

    C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt.

12. Copy FTEDriver folder (Before upgrade, step 2) to C:\temp.

13. Open Command prompt in administrator privileges.

14. Run following command.

    Cd C:\temp\FTEDriver.

15. Run following command –

    Ftemux_wrapper.exe "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt" "C:\program files(x86)\Honeywell\Experion PKS\install\FTEUninstall.log".

16. Wait for 5mins and now go to following file, you should see SUCCESS, REBOOT, RECALL.

    "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt".

17. Reboot the machine.

    Delete psc_status.txt – "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt".

18. Open Command prompt in administrator privileges.

19. Run following command–

    Cd C:\temp\FTEDriver.

20. Run following command –

    Ftemux_wrapper.exe "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt" "C:\program files(x86)\Honeywell\Experion PKS\install\FTEinstall.log".

21. Wait for 5mins and now go to following file, you should see SUCCESS, REBOOT, RECALL.

    "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt".

22. Click Start > Run, type Services.msc and press Enter.

23. Enable the "Experion PKS GCL Name Server" Service by selecting its "Startup type" to "Automatic".

24. Reboot the machine.

Validating the point release installation

1. Using Notepad, open the **ProductVersion.txt** file located in the following path.

   `C:\Program Files(X86)\Honeywell\Experion` PKS OR <User selected path>\Honeywell\Experion PKS.

2. Verify the **ProductVersion.txt** for the following:

   +Experion PKS R511.5 Install completed on MM/DD/YYYY HH:MM:SS AM/PM

   If the above line is present, it indicates that the installation is successful.

> **NOTE**
>
> After this point release is installed, the majority of release references will state Experion PKS R511.5, but there are a few instances where the release reference will still point to Experion PKSa prior release. For example, Experion Maintenance Manager and ProductVersion.txt. This is an expected behavior.

Post-installation tasks

1. Log on as a member of Windows Administrators and Product Administrators group.

2. From Station or Control Builder, enable all the Checkpoint tasks.

3. Enable all virus scan/protection/backup applications or services. If the DVM Logger service is present and disabled, it must be enabled.

4. Perform the following steps to migrate the Quick Builder project. This step can be an optional step for Console Station node if you have not migrated the Quick Builder project on Server nodes and opened the Quick builder for 1st time on Console Station node.

   However, this step is not applicable for other nodes like eServer, Experion Application Server, Flex, and Premium Access clients.

   a. Open **Configuration Studio**.

   b. Select **Build Channels**.

      The Quick Builder migration wizard appears.

   c. Click **Next** to proceed the migration.

   d. Click **Finish** to complete the migration. The Quick Builder project opens automatically.

   > **ATTENTION**
   >
   > During the migration, you may come across the page, with the appearance of in the list. Ignore the prompt and proceed with the migration.

5. To uninstall Silverlight if it has not been uninstalled:

   a. Navigate to **Start Menu > Control Panel > Programs > Uninstall a Program**.

   b. Double-click "Microsoft Silverlight" and continue to confirm/acknowledge to uninstall the program.

4.6.4 Installing the point release on ELCN History Module

Pre-installation steps

1. Ensure that you are logged on to the ELCN HM using an account that is part of both the Windows Administrators and the Product Administrators group. It is not recommended to use HPS Install account as it is a temporary account used for installation/migration purpose only.

   > **ATTENTION**
   > Ensure that you log on with the required privileges.

2. From Native Window on ES-T, do the following:

   a. Disable scheduled checkpoint operation (if any) to ELCN HM node.

   b. Disable History collection of the ELCN HM node.

   c. Shutdown the ELCN HM node.

3. Disable all virus scan/protection/backup applications or services. If the DVM Logger service is present, it must be disabled.

> **ATTENTION**
>
> You must enable the services after completing the procedure.

4. Close all the running applications.

   The installer automatically stops most of the required Experion services. However, certain services that are not stopped by the installer must be stopped manually.

> **NOTE**
> You must ensure that the ELCN Management Service and TDC Emulator Service are stopped.

Stopping the services

Perform the following steps to stop all services manually.

1. Choose **Start > Honeywell Experion Tools**.
2. Right-click **Experion PKS Services Control Panel** and then select **More > Run as Administrator**.
3. Click **Stop all Services** and then click **OK**.

Installing the point release

1. If you are using Experion Support and Maintenance (ESM) to install the point release, install the point release from the ESM client. For more information, see the *Installation Builder User's guide*. If you are not using ESM to install the point release, go to step 2.

2. Browse to the folder containing the installer **Experion PKS RExperion PKS > supportsoftware.exe**. If the installation is from the network, then map the location where the installer folder is located to the network drive. If the installation is from an ISO image, then mount the image to a drive on the system.

> **ATTENTION**
>
> a. In the command prompt, as an Administrator, type the following command. (for example,)
>
> b. Ensure that the path mapped (for example, \\192.168.10.3\temp\<point release>) has both 'Read' and 'Write' permissions.
>
> c. Type the user name and password (must be in quotes if there is a blank).
>
> d. In the same command prompt window, change to the above mapped drive and run supportsoftware.exe.

3. Right-click **supportsoftware.exe** and then click **Run as Administrator**. If the **User Account Control** dialog box is displayed, click **Yes** to continue.

   The **Welcome to Experion PKS Update Manager** dialog box appears.

4. Click **Next** and enter the Password in the Login Credentials panel to perform the auto logon after restart.

5. Click **Next** to start the installation.

> **ATTENTION**
> - If the installation is being performed from the network, acknowledge the User Account Control prompt after each system restart.
> - You may see the following error message related to service which causes the installation to abort. Stop the service manually after acknowledging the message and restart the installation.
>   *Failed to stop <service name>. Installation will be aborted now.*
> - If the installation is being performed from the network, and the automatic network mapping does not occur, then, the user has to map it manually and re-run the **supportsoftware.exe**.
> - If the installation is being performed from an ISO image mounted on the system, then automatic remounting does not happen after the system reboots during point release installation. The user has to mount the ISO image again to the same drive and run **supportsoftware.exe** to resume the installation.

6. Follow the on-screen instructions and click **Finish**. The node restarts after the installation is complete.

Starting the services

Perform the following steps to start all services manually.

1. Choose **Start > Honeywell Experion Tools**.
2. Right-click **Experion PKS Services Control Panel** and then select **More > Run as Administrator**.
3. Click **Start all Services** and then click **OK**.

> **NOTE**
> You must ensure that the ELCN Management Service and TDC Emulator Service are started.

Post-installation tasks

1. Log on as a member of Windows Administrators and Product Administrators group.
2. Enable all virus scan/protection/backup applications or services. If the DVM Logger service is present and disabled, it must be enabled.
3. From Native Window of ES-T, ensure that the ELCN HM node is loaded to OK state else perform a manual load from Power ON to OK state.
4. Enable History collection and checkpoint of the ELCN HM node.

4.6.5   Installing the point release on ACE/ SCE/ EHG

Pre-installation steps

1. Ensure that you are logged on to the server using an account that is part of both the Windows Administrators and the Product Administrators group. It is not recommended to use HPSInstall account as it is a temporary account used for installation/migration purpose only.

> **ATTENTION**
>
> Ensure that you log on with the required privileges.

2. Perform the following steps.

> **ATTENTION**
>
> Perform step a through step d on Control Builder from Server B (redundant server) or Experion server (non- redundant).

    a. From Control Builder **Monitoring view**, right-click the node **FB** and select **Upload/Update to Project With Contents**.

       The **Upload/Update to Project With Contents** box is displayed.

    b. Clear **Server Configuration Information** check box and click **Continue**.

       The tuning constants are uploaded from the controller to the **Monitoring view** of ERDB.

    c. Perform a manual **Checkpoint Save** of the controller.

    d. Ensure that the Checkpoint shares have replicated correctly between the server and all the Console stations.

    e. To verify the replication of the Checkpoint shares, check the **Event Summary Display** page on the Station once the manual **Checkpoint Save** is completed for this controller. If the **Event Summary Display** page does not display any replication failure event, the replication is successful.

3. Modify the node FB **CEESTATE** to **IDLE**.

4. Change the node FB ACE / SIM command to **SHUTDOWN**. For more information, see the Control Building User's Guide.

5. Shutdown the node FB from the Control Builder.

Stopping the services

Before installing the point release, you must stop the SNMP services. If PMD is installed, use PDS Server tool from **Start** > **All Programs** > **PMD** > **Start Or Stop PDS Server** and stop the PMD services.

Perform the following steps to stop all services manually.

1. Choose **Start > Honeywell Experion Tools**.

2. Right-click **Experion PKS Services Control Panel** and then select **More > Run as Administrator**.

3. Click the **Stop all Services** and click **OK**.

Installing the point release

1. If you are using Experion Support and Maintenance (ESM) to install the point release, install the point release from the ESM client. For more information, see *Installation Builder User's Guide*. If you are not using ESM to install the point release, go to step 2.

2. Browse to the folder containing the installer **Experion PKS RRelease 511 > supportsoftware.exe**. If the installation is from the network, then map the location where the installer folder is located to the network drive. If the installation is from an ISO image, then mount the image to a drive on the system.

> **ATTENTION**
>
> a. In the command prompt, as an Administrator, type the following command. (for example,).
> b. Ensure that the path mapped (for example, \\192.168.10.3\temp\<point release>) has both 'Read' and 'Write' permissions.
> c. Type the user name and password (must be in quotes if there is a blank).
> d. In the same command prompt window, change to the above mapped drive and run **supportsoftware.exe**.

3. Right-click **supportsoftware.exe** and then click **Run as Administrator**. If the **User Account Control** dialog box is displayed, click **Yes** to continue.

    The **Welcome to Experion PKS Update Manager** dialog box appears.

4. Click **Next** and enter the Password in the Login Credentials panel to perform the auto log on after restart.

5. Enter the **Experion Account passwords** to continue.

6. Enter and confirm the **Security Password** to continue.

> **NOTE**
> The **Security Password** is used to encrypt the user inputs captured during a particular instance of installation/upgrade. The security password need not be the same for every installation/upgrade.

7. Click **Next** to start the installation.

> **ATTENTION**
>
> - If the installation is being performed from the network, acknowledge the User Account Control prompt after each system restart.
> - You may see the following error message related to service which causes the installation to abort. Stop the service manually after acknowledging the message and restart the installation.
>
>   *Failed to stop <service name>. Installation will be aborted now.*

- If the installation is being performed from the network, and the automatic network mapping does not occur, then, the user has to map it manually and re-run the **supportsoftware.exe**.
- If the installation is being performed from an ISO image mounted on the system, then automatic remounting does not happen after the system reboots during point release installation. The user has to mount the ISO image again to the same drive and run **supportsoftware.exe** to resume the installation.

8. Follow the on-screen instructions and click **Finish**. The node restarts after the installation is complete.

9. Click Start > Run, type Services.msc and press Enter.

10. Disable the "Experion PKS GCL Name Server" Service by selecting its "Startup type" to "Disabled."

11. Delete psc_status.txt if exists under following Experion software installation location:

    C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt.

12. Copy FTEDriver folder (Before upgrade, step 2) to C:\temp.

13. Open Command prompt in administrator privileges.

14. Run following command.

    Cd C:\temp\FTEDriver.

15. Run following command –

    Ftemux_wrapper.exe "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt" "C:\program files(x86)\Honeywell\Experion PKS\install\FTEUninstall.log".

16. Wait for 5mins and now go to following file, you should see SUCCESS, REBOOT, RECALL.

    "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt".

17. Reboot the machine.

    Delete psc_status.txt – "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt".

18. Open Command prompt in administrator privileges.

19. Run following command–

    Cd C:\temp\FTEDriver.

20. Run following command –

    Ftemux_wrapper.exe "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt" "C:\program files(x86)\Honeywell\Experion PKS\install\FTEinstall.log".

21. Wait for 5mins and now go to following file, you should see SUCCESS, REBOOT, RECALL.

    "C:\program files(x86)\Honeywell\Experion PKS\install\psc_status.txt".

22. Click Start > Run, type Services.msc and press Enter.

23. Enable the "Experion PKS GCL Name Server" Service by selecting its "Startup type" to "Automatic".

24. Reboot the machine.

Validating the point release installation

1. Using Notepad, open the **ProductVersion.txt** file located in the following path.

   `C:\Program Files(X86)\Honeywell\Experion` PKS OR <User selected path>\Honeywell\Experion PKS.

2. Verify the **ProductVersion.txt** for the following:

   +Experion PKS R511.5 Install completed on MM/DD/YYYY HH:MM:SS AM/PM

If the above line is present, it indicates that the installation is successful.

> **NOTE**
>
> After this point release is installed, the majority of release references will state Experion PKS R511.5, but there are a few instances where the release reference will still point to Experion PKSa prior release. For example, Experion Maintenance Manager and ProductVersion.txt. This is an expected behavior.

Post-installation tasks

1. Log on as a member of Windows Administrators and Product Administrators group.
2. From Station or Control Builder, enable all the Checkpoint tasks.
3. Load ACE node to monitoring side from Control Builder.
4. Enable all virus scan/protection/backup applications or services. If the DVM Logger service is present and disabled, it must be enabled.
5. To uninstall Silverlight if it has not been uninstalled:
   a. Navigate to **Start Menu > Control Panel > Programs > Uninstall a Program**.
   b. Double-click "Microsoft Silverlight" and continue to confirm/acknowledge to uninstall the program.

4.6.6 Post-install Activities after all nodes are upgraded

For systems that meet the following prerequisites there is an additional command that should be executed:

- Cluster consists of ESVT and ES-Ts
- This point release has been installed on the ESVTs and ES-Ts
- Have an Enhanced High-Performance Process Manager configured and loaded in Control Builder
- The Enhanced High-Performance Process Manager has the "Enhanced High-Performance Process Manager Data Access" setting set to "Peer to Peer and ExpServer"

If the above prerequisites are met, then on the primary ESVT and each ES-T open a command prompt and run: **primecombopoints /validate /all.**

4.6.7 Installation of supported optional features for point releases on a non-Experion node

Installing the point release

1. Browse to the folder containing the installer **Experion PKS RRelease 511 > supportsoftware.exe**. If the installation is from the network, then map the location where the installer folder is located to the network drive. If the installation is from an ISO image, then mount the image to a drive on the system.

> **ATTENTION**
> a. In the command prompt, as an Administrator, type the following command.
>   (for example,).
> b. Ensure that the path mapped (for example, \\192.168.10.3\temp\<point release>) has both 'Read' and 'Write' permissions.
> c. Type the user name and password (must be in quotes if there is a blank).
> d. In the same command prompt window, change to the above mapped drive and run **supportsoftware.exe**.

2. Right-click **supportsoftware.exe** and then click **Run as Administrator**. If the **User Account Control** dialog box is displayed, click **Yes** to continue.

   The **Welcome to Experion PKS Update Manager** dialog box appears.

3. Click **Next** and enter the Password in the Login Credentials panel to perform the auto log on after restart.

4. Click **Next** to start the installation.

> **ATTENTION**
>
> • If the installation is being performed from the network, acknowledge the User Account Control prompt after each system restart.
>
> • If the installation is being performed from the network, map the network drive and launch the installer again after a system restart.
>
> • You may see the following error message related to service which causes the installation to abort. Stop the service manually after acknowledging the message and restart the installation.
>
>   *Failed to stop <service name>. Installation will be aborted now.*
>
> • If the installation is being performed from the network, and the automatic network mapping does not occur, then, the user has to map it manually and re-run the **supportsoftware.exe**.
>
> • If the installation is being performed from an ISO image mounted on the system, then automatic remounting does not happen after the system reboots during point release installation. The user has to mount the ISO image again to the same drive and run **supportsoftware.exe** to resume the installation.

5. Follow the on-screen instructions and click **Finish**. The node restarts after the installation is complete.

Validating the point release installation

1. Using Notepad, open the **ProductVersion.txt** file located in the following path.

   `C:\Program Files(X86)\Honeywell\Experion` PKS OR <User selected path>\Honeywell\Experion PKS.

2. Verify the **ProductVersion.txt** for the following:

   ++Experion PKS R511.5 Install completed on MM/DD/YYYY HH:MM:SS AM/PM

   If the above line is present, it indicates that the installation is successful.

> **NOTE**
> After this point release is installed, the majority of release references will state Experion PKS R511.5, but there are a few instances where the release reference will still point to a prior release. For example, Experion Maintenance Manager and ProductVersion.txt. This is an expected behavior.

4.6.8   Updating common components packages (optional step)

> **ATTENTION**
>
> Note that these steps must be performed ONLY if you install an optional common component package using Experion PKS Installation media after installing this point release. To update the installed optional common component package version to Experion PKS R511.5 version, you must reinstall Experion PKS RRelease 511.
>
> Follow the steps provided in the following respective sections to update the installed optional common component package version to Experion PKS RRelease 511.
>
> - Installing the point release on non-redundant server
> - Installing the point release on redundant server B
> - Installing the point release on redundant server A
> - Installing the point release on Experion Application Server/ Console/ Flex/Console Extension station/eServer/Premium Access clients
> - Installing the point release on ELCN History Module
> - Installing the point release on ACE/ SCE/ EHG

4.6.9   Upgrading Control Firewall firmware

You can update the Control Firewall firmware using the Control Firewall Update tool. You can launch the tool from the Configuration Studio or as a standalone tool. See "About the Control Firewall Update tool" topic in the System Definition and Configuration online help for information on launching the tool. See Firmware revisions for the latest firmware version and file location details.

> **ATTENTION**
>
> Do not upgrade a CF9 pair together, as it may cause a Loss of View situation, make sure that you have identified each pair during the time of upgrade. Use one instance of the tool at a time.

Perform the following procedure to upgrade Control Firewall firmware.

1. Click **Start** > **Honeywell Experion Tools** > **All Honeywell tools** > **Engineering Tools**.
2. Double-click and open the respective CF9 upgrade tool.

   Control Firewall Update window appears.
3. Go to the path "**C:Program Files(x86)\Honeywell\Experion PKS\Engineering Tools\system\Firmware\CF9\ and select the file "CF9_PART1.HEX"**

4. Select the Control Firewall firmware file "**CF9_PART 1**" and click **Start** for the update. PART 1 should be selected first and the micro version of the firmware will be updated.

5. Select the Control Firewall firmware file "**CF9_PART 2**" and click **Start** for the update, and the FPGA version of the firmware will be updated.

You have now successfully updated the Control Firewall firmware.

4.6.10   Migrating controllers

Updating the firmware

1. Perform the upgrade readiness checks using the Upgrade Tool (UT).

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

2. Migrate the controllers and modules using the Controller Migration Wizard (CMW).

   CMW can be used for both on-process and off-process migration in an automated way. NTools and CTools can be used for manual firmware upgrade.

   For more information about CMW, see section "Controller Migration" in the respective *Scenario-specific Migration Guide*.

> **NOTE**
> In order to migrate an EHPM which is integrated with Experion, you must use the Standalone EPA tool to flash firmware on ENB/ENIM/EHPM as CMW is not supported for an EHPM.

4.7   Uninstallation of the point release

> **ATTENTION**
>
> Uninstallation of this point release is not supported. Contact Honeywell TAC to uninstall this point release.

4.8 Limitations

4.8.1 Point release removal

> **ATTENTION**
>
> Uninstallation of this point release is not supported. Contact Honeywell TAC to uninstall this point release.

4.8.2 Localization

[ ] Not impacted	[✔] Point release may contain strings in English. A Localization version to be included in the next release.

4.8.3 Point release distribution

[✔] Not limited	[ ] Limited

SUPPORTED SOFTWARE / HARDWARE / FIRMWARE

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	HPE Proliant DL360 Gen8 server
HP Z620 workstation	HPE Proliant DL360 Gen9 server
HP Z4 G4 workstation	HPE Proliant DL360 Gen10 server

- Dell platforms

  The following Dell servers and workstations are qualified.

Workstation	Server
Dell Precision R5500 workstation	Dell PowerEdge T320 server
Dell Precision T3600XL workstation	Dell PowerEdge R320 server
Dell Precision R7610 workstation	Dell PowerEdge T330 server
Dell Precision R7910 workstation	Dell PowerEdge T130 server
Dell Precision T5810XL workstation	Dell PowerEdge R430 server
Dell OptiPlex XE2	Dell PowerEdge R740XL server
Dell Precision T5820XL workstation	Dell PowerEdge T340 server
Dell Precision R7920XL workstation	Dell PowerEdge R230XL server
Dell Optiplex XE3	Dell PowerEdge R240HWL server
	Dell PowerEdge R330XL server
	Dell PowerEdge R340HWL Server
	Dell PowerEdge XR2HWL 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 , see the section in the .

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 Experion Update Matrix at the following link:https://process.honeywell.com/library/support/software-downloads/Experion/experion-update-matrix.zip.

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 https://process.honeywell.com.

- Click the following link for Antivirus Software Guidelines.

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

- Click the following link for Antivirus Quick Reference.

  https://process.honeywell.com/library/support/Documents/Trusted/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 PKS products.

https://www.process.honeywell.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 https://process.honeywell.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 https://process.honeywell.com.

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

  https://process.honeywell.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://process.honeywell.com/us/en/support/security-   updates/Customer/Microsoft-Security-Updates-ISO.pdf

5.5   Experion Support and Maintenance (ESM)

Experion Support and Maintenance (ESM) R251.x is qualified with Experion R410, R43x, R500 and R51x releases. For more information, see *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 PKS 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,
    - Microsoft Windows Server 2016 Datacenter
    - Microsoft Windows Server 2016 Standard

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

5.7   Experion PKS Backup and Restore

Experion PKS Backup and Restore (EBR) R501.x is qualified with Experion PKS RRelease 511. For more information, see *Experion PKS Backup and Restore User's Guide*.

5.8   Application Whitelisting

For more information, see *Application Whitelisting Software Change Notice (AWL–Carbon Black_SCN_ WLDOC–X558)* of R201.1 and later.

5.9   Firmware revisions

The following table provides details about the revised firmware versions.

Module	Module number	Firmware version	File
C200E	TC-PRS022 TK-PRS022	EXP511.1–42.523	cee50e.pcm cpmboote.pcm
C300	Cx-PCNT01 Cx-PCNT02	EXP511.1–42.523	c300.lcf c300app2.pcm c300app2_20.pcm c300app2_ehb.pcm c300boot2.pcm c300boot2_20.pcm c300boot2_ehb.pcm c300boot2x.pcm c300boot2x_20.pcm c300boot2x_ehb.pcm c300app3.pcm c300app3_20.pcm c300boot3.pcm c300boot3_20.pcm PCNT02.lcf
C300PM	MC–ZH4EHS MC–ZH4EHR MC–ZH6EHS MC–ZH6EHR	EXP511.1–42.526	c300pm.lcf c300pmapp2.pcm c300pmboot2.pcm
EHPM		EXP511.1–42.526	ehpm.lcf ehpmapp1.pcm ehpmboot1.pcm
EHB		EXP511.1–42.510	ehb.lcf ehbapp1.pcm ehbboot1.pcm

Module	Module number	Firmware version	File
			enim2ehb.lcf
EIM	CC–PEIM01	EXP511.1–42.526	eimeip_eim2_fte_hsrprp_signed_prod.pkg
ELMM		EXP511.1–42.526	elmm.lcf elmmapp2.pcm elmmboot2.pcm
Classic ENIM/ENB		EXP511.1–42.526	epni2.lcf epni2app1.pcm epni2boot1.pcm
ETN		EXP511.1–42.510	etn.lcf ETNapp1.pcm ETNboot1.pcm
FIM		EXP511.1–42.510	fimboot.nvs fimboot.pcm fimrex.nvs fimrex.pcm
FIM4	CC–PFB40x	EXP511.1–42.510	fim4.lcf fim4app2.pcm fim4app3.pcm fim4app4.pcm fim4boot2.pcm fim4boot3.pcm fim4boot4.pcm
FIM8	CC–PFB80x	EXP511.1–42.510	fim8.lcf fim8app2.pcm fim8app3.pcm fim8boot2.pcm fim8boot3.pcm
FTEB		EXP511.1–	ftebboot.nvs

Module	Module number	Firmware version	File
		42.440	ftebboot.pcm ftebrex.nvs ftebrex.pcm
IOLIM		EXP511.1-42.313	iolimapp.nvs iolimapp.pcm iolimboot.nvs iolimboot.pcm
PGM2	Cx-IP0101	EXP511.1-42.510	pgm2.lcf pgm2app1.pcm pgm2boot1.pcm
RFIM		EXP511.1-42.313	rfim4app2.pcm rfim4app3.pcm rfim4app4.pcm rfim4boot2.pcm rfim4boot3.pcm rfim4boot4.pcm
UEA (ELCN Bridge)		EXP511.1-42.524	ueaelcn_brg_uea2_fte_signed_prod.pkg
UEA (ELCN Node)		EXP511.1-42.524	ueaelcn_node_uea2_fte_rdn_dl_signed_prod.pkg
UOC	900CP1-0200	EXP511.1-42.526	uocprocess_cpm_fte_hsrprp_tracker_signed_prod.pkg
UVA (Universal Virtual Appliance)		EXP511.1-42.524	VirtualELCNAppliance.ova VirtualELCNAppliance_NG.ova
CF9	Cx-PCF901 (Hardware Revision – D)	UU	51121439_MFG.HEX 51121439_MFG.Checksum.txt

Module	Module number	Firmware version	File
		- 69 -	51121440_mfg.hex
			51121440_mfg_ Checksum.txt
			CF9_PART1.HEX
			CF9_PART2.BIN

CHAPTER 6

NEW FEATURES AND ENHANCEMENTS

6.1   C300 Process Manager (C300PM)

C300PM is the new controller offering for the Experion controller family, in addition to the C300, EHPM, and ControlEdge UOC and will be available beginning with Experion R511.5 and TPN R690.1. It is a complimentary controller to the EHPM. This solution enables users to seamlessly modernize their HPM installation to gain more performance. C300PM enables access to the advanced Experion PKS functions (such as the CEE capabilities) in a future Experion release while retaining the existing intellectual property.

New hardware consists of a Controller module, Power Backup module, and an FTE Interface module.

C300PM provides:

- Same form factor as existing HPM

- A Common Embedded Platform, based on same ARM processor as used in C300 and ControlEdge UOC, running on LINUX platform

- High-Performance I/O Link Card is not required as this functionality is integrated within the C300PM controller module with no changes to the existing physical I/O link cables.

- Reduction in space requirements

  - Physical CF9 is no longer required the C300PM has a built-in Control Firewall functionality and will allow direct connection to an L2 switch.

- On-process migration from HPM and EHPM

- Retain existing I/O Link to interface with Input/Output Processors (IOPs) and I/O Link Extenders

- Utilizes a hot swappable Power Backup Module for database retention in case of a power failure

The following diagram illustrates an example migration scenario from HPM to C300PM.

CDA or Peer Connection to/from the C300PM

Note: The C300PMs do not require separate CF9 switches in the network as they have a built-in Control Firewall functionality.
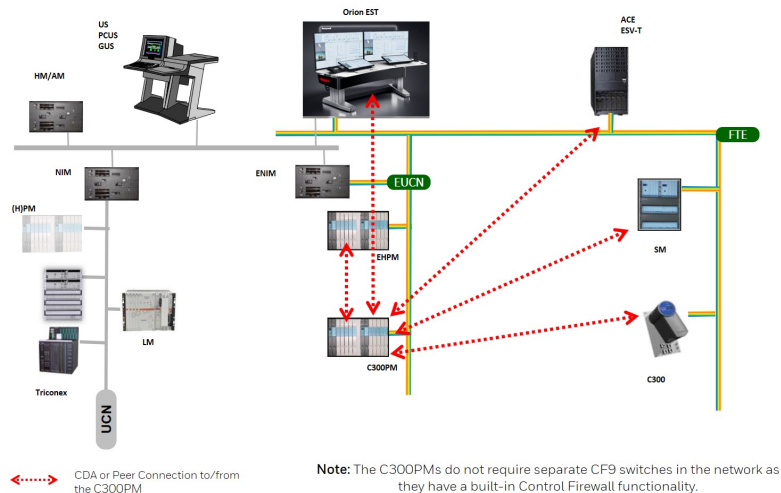
Note: EHPMs can be migrated to C300PM (On-process Migration (OPM)) only when they are integrated with Experion, or already flashed with Experion APP/BOOT firmware. Standalone EHPMs (running with Standalone Configuration (Boot-only Firmware) need to be upgraded first with the Experion firmware.

The following table lists the on-process and off-process migrations supported by C300PM based on the selected controller type.

xPM Controller Type	C300PM Migration Supported (On-process migration)	C300PM Migration Supported (Off-process migration)
PM/APM	NO	YES
HPM	YES (requires redundant controller)	YES
EHPM – Standalone Firmware (Boot-only firmware)	YES (requires redundant controller) EHPMs must be flashed with the Experion firmware R511.5 and then proceed with the migration	YES
EHPM – Experion Integrated or already flashed with Experion Firmware R511.5	YES (requires redundant controller)	YES

The following table identifies the guides that contain information relevant to C300PM.

Guide Name	Purpose
C300PM Overview and Implementation Guide	Provides detailed comprehensive software/system configuration information, including migration procedures for C300PM.
C300PM Planning, Installation, and Service Guide	Provides information for planning, installing, and servicing the C300PM hardware.
Control Builder Components Theory	Provides information about the usage of the function blocks in Control Builder.

Guide Name	Purpose
Control Builder Components Reference	Provides quick reference about the function blocks.
Control Builder Error Codes Reference	Provides information related to the errors that appear in Control Builder.
Control Builder Parameter Reference	Provides information about the parameters.
Control Building User's Guide	Provides information about the configuration and loading of the control strategies using Control Builder.
Experion Firmware Manager Tool User's Guide	Provides information about the prerequisites, installation and use of the Firmware Manager Tool. This tool is used to load firmware to a Honeywell Universal Embedded Appliance (UEA), and to access diagnostic information from it.
Experion LCN Engineering Operations Guide	Provides information about the instructions and configuration requirements for the Experion LCN (ELCN) engineering operations.
Engineer's Reference Manual	Provides information about configuration, startup, and reconfiguration efforts for TPN–based TPS systems.
TPS System Audit Tool User's Guide	Provides information about the installation, preparation, and running of the System Audit Tool.

6.2   New FTE Switches supported in the current release

- FTE Cisco 9200L and 9300L Switch Support

  Introducing the latest Cisco qualified switches for use in all supervisory network applications. For Level 1 and 2 applications the following switches have been qualified to replace the 2960X and 2960 PLUS family of switches that are no longer for sale. The following switches are the replacements. FTE switch configurations file examples are included in this release.

  C9200L-24T-4G-E (SI-920LN4) and C9200L-48T-4G-E(SI-920LN8) replace both the 2960x 24 and 48 port and the 2960+ 24 and 48 port switches, as both switches support up to 1 GBS connections.

  The WS-C2960XR-24TS-I(SI-2960R4) is replaced by the C9300L-24T-4G-E (SI-930LN4). This switch also includes redundant power supplies.

- Cisco 9300 Switches Support for FTE Backbone applications

  The 3850-12S-S (SI-3850N2) is being replaced with a choice of two options the C9300-24T-E (SI-930TN4) and the C9300-24S-E (SI-930SN4). These switches offer two different price points and port configurations and are qualified to be used in the Experion system as FTE Backbone switches and are stackable. FTE switch configurations file examples are included in this release.

- FTE Cisco 9300L-24T-4G Top of Rack (ToR) Virtualization support

  Introducing the latest Cisco qualified switch for use in Virtualization Essentials Platform ToR configuration, the Cisco Catalyst C9300L-24T-4G-E (SI-920LN4) running IOS XE 16.12.5b. This switch is the replacement for the Cisco Catalyst 2960XR-24TS and 2960X switches for this application, which have gone end of sale. FTE switch configurations file examples are included in this release.

CHAPTER

7

SYSTEM DISPLAYS

The following table lists the system display files (in .htm format) that is modified and newly included in the point release.

Modified displays	Description
SERVER Displays	
sysAlgo021.htm	Algorithm 21 system display
sysAlgo025.htm	Algorithm 25 system display
sysAlgo026.htm	Algorithm 26 system display
sysDtlAnaAlarms.htm	Alarms tab of analog point detail display
EHPM/C300PM Displays	
sysdtlehpm.htm	HPM TPS detail display
sysdtlehpm_fp.htm	HPM_FP TPS detail display
sysdtlehpmb.htm	HPMB TPS detail display
sysdtlehpmc.htm	HPMC TPS detail display
sysdtlehpmd.htm	HPMD TPS detail display
sysdtlehpm_Chart.htm	HPM chart TPS detail display
Experion TPS Detail Displays	
sysdtltpsanalgin.htm	Analog input TPS detail display
sysdtltpsoutput.htm	Output TPS detail display
Sysdtltps-tabctl.htm	Tab contol TPS detail display
Sysdtltps-tabconfig.htm	Tab configuration TPS detail display
sysdtltpsPmioIOP.htm	IOP TPS detail display
sysdtltpsPmioIOP_Chart	IOP chart TPS detail display
sysdtltpstabflgnumlogic.htm	Tab flag num logic TPS detail display
sysdtltps-tabHART.htm	Tab HART functionality TPS detail display
sysdtltps-tabconfig-digitals.htm	Tab configuration digital TPS detail display
sysdtltps-tabMaintenance.htm	Tab maintenance TPS detail display
sysdtltps-PmioIopB.htm	IOP TPS detail display

CHAPTER

8

RESOLVED PARS IN EXPERION

8.1 Resolved PARs in Experion R511.5

8.1.1 Installation and Migration

PAR	Function	Description
RELCNTN–6082	ELCN–Unified Engineering Tool	Process Manager input/ouput block fails to import with EHPM Import Utility while migrating the system from R431.5 to R511.5.
RELCNTN–6072	IXP–Import Export	ELCN Database Import Utility gives an error "ERDB export fails as 100%" when you try to import EHPM points.
1–285GWN5	Missing/incorrect information	Set point limits in the Native Window details page and Experion faceplates are not matching.
1–4QOTDEZ	Profit Loop Runtime	C300 Profit Loop Algorithm performance issues when re-setting NewSample flag manually for Async Input.
1–D57LHM1	Profit Loop Assistant	Experion R501.4 Profit Loop Patch is missing despite being listed in Experion R501.1 SCN.

8.1.2 Common components

PAR	Function	Description
1–8L59F03	621 IO-LIOM	After copying the CUIFLAG.inc.xml file when you try to open the LIOM CM, it gives an error 1L.101.1211.
1–AQM5BEF	CAB-Buildtime	Unable to save CAB blocks with the existing CAB name or new CAB name when QVCS is unavailable.
1–AE0QYO3	CEP-Network-FTE	Peer–to–peer (P2P) fetch and push fails with vUOC and UOC upon ESXi FTE-Y cable fault.
1–B7UBS7R	CEP-Network-FTE	vUOC peer–to–peer is initialized with S300 when yellow/green switches get powered OFF.
1–B8N2QM9	CEP-Network-FTE	Y-uplink removal/Power-off TPLY

PAR	Function	Description
		causes P2P failures between UOC to other Peer nodes on different switches.
1–BJ69RDD	CEP–Network–FTE	ICPP communication fails permanently on performing uplink cable fault between TL L2 and L2.5 Y.
1–DKIQVVH	CEP–Network–FTE	CDA communication over FTE B cable is not stable with UEA boxes on certain IP ranges.
1–B0C24TN	CEUOC–Platform	UOC's synchronization reduces during the stable run after 15 days 7 hours, and then resynchronizes automatically.
1–B7NFNFR	CEUOC–Platform	UOC's retention save can take <15 seconds resulting in Loss of View and loss of peer to peer communication.
1–BN2HL4D	CEUOC–Platform	ELCN AM switches over automatically during stability after 15 days of module run-time.
1–BN2HLCI	CEUOC–Platform	ELCN Bridge and ENIM synchronization reduces during the stable run after 15 days 7 hours, and then resynchronizes automatically.
1–B1PXYOI	CEUOC–PlatformVirtual	CEE Cycle Overruns is observed on VMWare FTvUOC 50ms Controller during the stable run.
1–B7H9A61	CEUOC–Platform–Virtual	RRR functionality in R511.1 SM3 is not working for vUOC.
1–9W77YI9	CEUOC–Platform–Virtual	First-time failover after you enable the test results in temporary Loss of Control with CE900 IO.
1–16JFE8J	Control BuilderProfibus	Module deletion is allowed even if it is associated with DSB.
1–7PQZEYH	Control Functions – Batch	Phase shows "Resource in use" but remains in the Idle state.
1–80F5H4J	Control Functions – Batch	The out of range Boolean values get accepted in the DATA blocks.
1–89Y5FAH	Control Functions – Batch	SR 1-17713305690-Master and Control Recipe that does not display Phase formula may have other issues.

PAR	Function	Description
1-DQCB15N	CM-Configuration Management	In 511.5, support media version revision file is not updated.
1-DR5L9DN	CM-Configuration Management	Build 510 version of FIM4 firmware is not available in 511.5.
1-DRYZWWX	CM-Configuration Management	R511.4HF3 UOC firmware posting is missing in R511.5.
REUCN-1975	Engineering Tools	Discrepancies in parameter after importing C300PM checkpoint to Control Builder in R520 C2TP2 B33.
REUCN-2504	Engineering Tools	Firmware Manager shows wrong indication (R140.1 B05).
REUCN-2757	Engineering Tools	TPN parameters HMIWeb display does not update any values on Station detail display.
REUCN-3358	Engineering Tools	CDA Parameters are not able to access if the Controller platform block is loaded with disabled "Enable CDA" option.
REUCN-3940	Engineering Tools	In a Redundant Server in R511.5, points assigned in History is lost after Server switches over.
RELCNTN-5280	Engineering Tools	TPN Server and LCNP's RPARSEC load increases by 940PPS when a CDS with 1000 Boolean array opens up in the Control Builder Monitoring side.
RELCNTN-5588	Engineering Tools	Change of OP in DIGCOMP and DEVCTL from Station display does not work after performing reconstitution for state TXT.
1-4YL169B	Experion Station-Faceplate	Missing point description on 'fpcommon' shape faceplates. For example, sysdtltpspid_fp.
1-AD5X6MT	Experion Station-Faceplate	Experion Station fails when using DIGOUT (TPS) on OTP panel.
1-C177RZ7	Experion Station-Faceplate	Momentary high/low functionality on Digital Faceplate.
1-CV6P043	FTESwitchConfig	Configuration file gets generated from FTE Switch tool which is not correct and has lot of errors for MOXA-EDS-G512E

PAR	Function	Description
		switch.
1–107BU07	FF-Configuration	Experion is unable to differentiate the casesensitive units like mpa and Mpa, Mg and mg.
1–ATKYJTF	I/O–Pulse Input	PI value freezes when the pulse frequency reaches 20kHz.
1–AT0N8KB	I/O–Series C	Series C Pulse Input Module configuration and usage information is missing in the documentation.
1–3QBY5IJ	Honeywell Communications Interface	Memory leak when performance counters fail on client disconnect.
1–5JUK908	Honeywell Communications Interface	An unexpected OPC client call can cause OPC server to fail.
1–CU7URBL	HCI	OPC Gateway (opcMEACE03PS01) appears in yellow.
1–3QBY5IJ	HCI	Memory leaks occur when performance counters get destroyed on Client disconnect.
1–8PFRJNT	HMIWeb TPN Details	TPS DIGIN DETAIL Script error (CHOFSTPR, DIGALFMT).
1–9RAAACD	HMIWeb TPN Details	Context menu icons gets highlighted in pink color for TPS points due to which the icons are unclear.
1–BS2PXUR	HMIWeb TPN Details	sysdtltps-tabcds does not show the same data as Native window.
1–C3YDWQB	HMIWeb TPN Details	Point detail display in Experion does not include $MOPHILM support. It is available in TPS.
1–CF63DN9	HMIWeb TPN Details	PVSGCHPR is not available on display sysdtltps-tabconfiganalgin.htm for REGAM points.
1–D1PFNZT	HMIWeb TPN Details	Alarm Priority is not clearly visible on TPS PID faceplate.
1–D3HVIGD	HMIWeb TPN Details	PROG mode and TRFB parameter are missing from the Station Detail display

PAR	Function	Description
		of AM point.
1-DQM1NE7	INS-Experion Installer	Installation of R511.5 fails at the step of Engineering Tools due to low disk space since the tool is checking for a minimum 20GB free disk space.
1-A1P6NR9	Network-Equipment and Support	IGMP General Message is sent with 0.0.0.0 IP address as source by adding the route function.
1-BX5S0X5	Network-Equipment and Support	An error in Network Best Practices documentation > ACL definition.
1-7OER2JD	Network-FTE	FTE Driver generates invalid ARP requests adding to the ARP traffic.
1-AD6REXJ	Network-FTE	FTE Driver does not work reliably on 7910.
1-D2NTZW7	Network-FTE	ARP broadcast storm gets generated during file transfer which resulted in Loss of View.
1-BL0X317	Network-FTE	Yellow Switch power recovery may cause in momentary failure of read/write connections to ESV OPC/TPN/DSA.
1-9IVERK7	PGM Hilscher Sycon.NET	You must remove the "ProcessImageMonitor" tab from Slave Diagnostic UI in latest sycon.net version.
1-7U492WH	PLC-5 / RSLogix-5 / RSLogix 5000	R431.3 Exchange block has stopped working after you replace the ControlLogix processor with 1756-L83E.
1-4ICO0EJ	QVCS	QVCS does not respect Domain Group Memberships since Access level problem exists in R31x, R40x, R41x.
1-B1YONAD	QVCS	ERDB corrupts after break in relationship with the parent.
1-5PNOEKG	Redundancy-RM	Redundancy Module (RM) of C200 Controller failure with EG11 code on the display.
1-BLSR725	ReferenceBlock-	Block Type migration fails

PAR	Function	Description
	Tools	IXPtool.exe:bt_ixpcmn.cpp:1017: (IXP_ERDB) IOREFERENCES:AIREF.
1-5X96F9U	Signon Manager	The new ACS card reader does not function with MFA or Sign-on Manager.
1-57DR8BF	SafeView	SafeView title bars appear in Windows 7 instead of Windows 10 Basic style.
1-CE2ZJNL	SafeView	Some applications fail on closing SafeView. For example, HMIWeb, HLV, and so on.
1-B7SFILB	SafeView	SafeView Classic configuration option must also write to a 64-bit registry area.
1-CFQXXUR	SafeView	Configuration Studio, CTools and Control Builder fails after closing the SafeView.
1-D5BOWQ5	SafeView	SafeView multiple Display Forward (Manual Select) buttons get activated.
1-DCB2UH1	SafeView	SafeView Global Focus is not working as expected.
1-DDY9D9Z	SafeView	SafeView buttons always appear on the top after minimizing and restoring a managed display.
1-DEQQAQV	SafeView	SafeView API call Start Manager is not working.
1-DFGL6UP	SafeView	SafeView locates a window wrongly in specific operations.
1-DGOF6LO	SafeView	Fast mode buttons appear to be missing for all the three themes (Classic, Windows 7, Windows 10).
1-DHPDK0N	SafeView	The alert pop-ups are not managed consistently.
1-DLUIMVV	SafeView	SafeView may cause individual displays to stop updating graphically.
1-DLUR2OJ	SafeView	Calls to SetOutputFocus with Window specification name as the parameter fails in R511.3 and later.
1-CDWAJX7	SafeView	Station fails after closing SafeView and exiting Station.
PAR	Function	Description

PAR	Function	Description
1-D58XOSZ	SafeView	Station stops working when launched with SafeView multi-window.
1-DHDGU4X	SafeView	For Station Tab windows, rapid invocations across a screen/area in focus-based workspace opens incorrect windows.
1-6GHC4QP	SafeView	Unable to drag small and maximized windows. SafeView must abide with the disabled OS auto-arrange option.
1-DFGL6UP	SafeView	SafeView locates the window wrongly in specific operations.
1-DOXCP6D	SafeView	SafeView documentation must mention new stringent rules for duplicate names, single item groups, and so on.
1-BNPRZFZ	SafeView	TPN Server repeatedty goes to the Failed state on primary ESVT. Same behavior observed on B as well.
1-DR58M4H	SafeView	After installing R511.4 infrastructure patch, Safeview does not capture windows correctly.
1-DPDQX0B	SafeView	Faceplates may be mislocated in a SafeView focus-based workspace.
1-DQBPZK1	SafeView	SafeView does not open in Experion R511.5.
1-9RAYH27	Series C Universal IO Modules	AO channel regenerates OP failure in field/circuit alarm with new time stamp frequently.
1-D07U5HQ	Series C Universal IO Modules	UIO-2 module disables the HART after channel load when connected to the Samson HART.
1-DQQP8WN	System Management	An issue with System Management and FTE Status display which does not work after the update.
1-6FU86T0	System Management	TPN Server does not stop in EAPP node.
1-AWCO8MX	System Management	Cisco Switch Index reports either "NULL/????" in the System Alarm summary.

PAR	Function	Description
1–B36FTWP	System Management	Multiple failure dumps get created during the migration.
1–A1NNRN9	Table View	Single and Safe step button is not available while using the Table view.

8.1.3   Controllers and Tools

This release contains improvements that strengthen the security of the Experion system.

PAR	Function	Description
1–DPYQMWT	ACE	In R511.5, ACE fails while loading.
1–BA2XL5J	C300 Controller	The document "Control Hardware and I/O Modules Firmware", section 7.2.1 needs correction at one point.
1–DDZ0XQH	C300 Controller	On yellow CF9 failure, the C300 does not take the alternate green path which resulted in a Loss of View.
1–A8JT3AR	C300 Controller	PCNT02 multiple fail/reboot with PCI RAM corruption during multiple releases.
1–DN34X9V	CAB-Runtime	CAB/ACE instances get terminated even if the execution does not exceed 250 milliseconds.
1–CRQWQUD	CCL	CCLs can be modified and loaded without user knowledge.
1–BFQ5UKT	CDA-Server	Server CDA data disconnections observed multiple times during R511.1 stable run of 30 days.
1–DFO40H3	CDA-Embedded	CDA request/response access of 255 character strings (CEE maximum supported), returns an error 7023.
1–DK0LTDF	CEUOC-Platform	Post OPM to HF6, core dump is not generated for UOC on switchover.

PAR	Function	Description
1–DN013DF	CEUOC–Platform	UOC reports incorrectly the "FTE Cable Silent" alarm (typically on FTE B/green cable).
1–DHVCD1T	CEUOC–Platform	UOC should keep forwarding the DLR packets even if it is in ALIVE/RDY/FAIL state.
1–DPG86R8	CEUOC–Platform	Improvements for UOC fault detection (enable SWDT under/over voltage diagnostics).
1–8RGYXV7	CF–Control Function	After communication timeout and shed to AUTO, regctl block returns to CASCADE.
1–917NU7M	CF–Control Function	Primary Controller outputs are driven to a Minimum or Maximum almost immediately.
1–ALKLAVF	CF–Control Function	Documentation for ORFBFLTM parameter.
1–BN80B5R	CF–Control Function	BW–34066 Missing description in Alarm Summary for UOC CEE due to Interlock Block.
1–DGO6IYP	CK–Control Kernal	CEE memory in UOC must run out before memory descriptors.
1–3OYICAZ	Checkpoint	Checkpoint service consumes closer to 20MB a day during the stable run.
1–DLRWEVD	Control Builder	TextComment block does not pass validation.
1–D5VN16H	Control Builder	Time to open Control Module chart increases when there is a delay in resolving the default printer settings.
1–DI32XUR	Control Builder	Unable to view Chart View of procedures or batches with large number of blocks in station.
1–DLJ23WB	Control Builder	Delta symbol always presents for Control Builder objects even after performing Upload Update.
1–4ICRVXJ	Control Builder	Modules get listed in unknown

PAR	Function	Description
		order in Control Builder– Containment View at R431.1 (different from the past releases).
1–8O9UPYH	Control Builder	STARTSIGNAL blocks CEESIWTCHFL documentation updates.
1–93CMKJ7	Control Builder	Control Builder fails if the Parameter comparison and reconciliation is enabled with DEC MS ISO.
1–93R67YZ	Control Builder	Loading of SIM–C300 fails when you have the Non–Redundant server name ending with "A1".
1–A9LTVF1	Control Builder	Unable to create and save UDT of DEVCTL block.
1–AR0Y9SD	Control Builder	Changing SP/Mode in Control Builder and not creating events in the Station Event Summary.
1–AXX0FW3	Control Builder	Documentation is not clear on how to create an alias that references to NONCEE TPS points.
1–BXDUESJ	Control Builder	Control Builder fails multiple times while comparing parameters for CM.
1–DEQB1H9	Control Builder	Clearing all the locks causes a bulk update of the SRDB.
1–DJ96EH3	Control Builder	Control Builder may go into slow response especially after heavy Control Builder related operation.
1–4KV0YFH	Control Builder–Chart	Chart View loses the navigation to selected blocks when zooming out and zooming in.
1–8XQ8R0B	Control Builder–Chart	Opening CMs in Control Builder takes much time.
1–5J5YYYF	Control Builder–Change Parent/User Defined Template	Unable to pass the signal from one CM to another CM after

PAR	Function	Description
		performing the Change Parent operation.
1-45EKYPT	Control Builder-Load	Versiondate parameter is not working during load while in active state.
1-DCGNMLT	Control Builder-Load/Upload/Update	Download operation of CM with UIO-2 Channel is slow and gets stuck during the load complete stage.
1-BU46T8X	Control Builder-Load/Upload/Update	When you do an upload/update from UOC then control confirmation is automatically checked in CMs.
1-DPD15IB	Control Builder-Search	When the ODS query is executed through the command line, it saves the CSV file with no results.
1-6CQRXN9	Control BuilderAutomated Device Commissioning	When you assign and load a cabinet, an ADC extra channel gets created in one of the UIO2 Module.
1-B0Y4TZD	Control BuilderAutomated Device Commissioning	Control Builder fails while executing loop check on multiple analog input devices with Excel 2016.
1-CUM1GLJ	Control Builder-Automated Device Commissioning	ADC loop check support for certain Rosemount, VEGA, E and H field devices, with no support for HART command 40.
1-5TYZT9F	Control BuilderConfiguration Form	With SIOMIOM Exported strategy, the imported channels fail to list in Block Property window.
1-66ORN4B	Control BuilderConfiguration Form	Unexpected error appears while enabling Server Point Build in I/O template.
1-4ICRW1U	Control Builder-Configuration Form	Control Builder Help is very much focussed such that the Control Builder gets selected from the Taskbar.

PAR	Function	Description
1–4KTVXL6	Control Builder–Configuration Form	Expand the block size at the Configuration/Monitoring Parameters tab and changes get saved even after Cancel.
1–5DF8UQT	Control Builder–Configuration Form	R430.4 – C300/C200 – DST did not get implemented to CEE's automatically.
1–6ZO4YSZ	Control BuilderFieldbus	FIM2 Device replacement failure.
1–OYUXXR	Control BuilderFieldbus	Device replacement failure for the devices with instantiating function block.
1–288O73J	Control Builder Help	C300 loses communication and fails to update policies in multiple PDP proxy and BOOTP environment.
1–69Q1RV1	Control BuilderLoad/Upload/Update	DO channel (PWM) Period parameter gets updated during reload of the channel with REDTAG.
1–BS4A99Z	Control BuilderLoad/Upload/Update	Enable HART for an I/O Channel without deleting it from Monitoring/ Controller.
1–DS7RKMT	Configuration Studio	MQTT channel with SSL is still downloaded as TCP from Quick Builder with SSL certificate error.
1–DO40LX1	Control Builder	EHPM CEE shows ERR 7512 on R511.5.
1–DRRJ7JT	Control Builder–Load/Upload/Update	C300 with CCL blocks fails OPM to R511.5.
1–DRPOAZR	Control Firewall	Occassional UCNCBLEV SILENCE B alarms get reported by EHPMs connected to CF9 hardware.
1–DQOFSH3	Control Functions – Batch	UOC dual failure due to No Checking performed if "CscoClass type is MR" in Trans/Condition.

PAR	Function	Description
1–985UUPH	Control Firewall	SM does not show up on FTE network when plugged directly into the CF9.
1–BB53RCH	CF–Control Function	Unexpected behavior of CEEWARMFL/ CEECOLDFL parameters of STARTSIGNAL block.
1–DDA4XWB	Control Functions – Batch	Dynamic P2P fetch is not working with flying transitions configured in Master recipes.
1–5FBR8UZ	Control Functions – Batch	C300 Controller fails when referenced to a non–peer structure parameter.
1–6WNH15J	Control Functions – Batch	EBM equipment is not released when a single step operation is performed on Phase block with the Report parameter.
1–DE7CBWH	Control Functions – Batch	Potential UOC Dual Controller failure leads to a Loss of Control.
1–6CELAV7	Control Functions – Continuous	FIM AO channel does not work when connected to YI parameter of the OA block.
1–6NZYI55	Control Functions – Continuous	In CS block, If PSO is ON and in MAN mode, the Step open and close commands stop working.
1–CLNH8R3	Control Functions – Continuous	C300 dual fails due to unassigned EIP blocks.
1–68R3QT7	CTools	C300 CPUFREEAVG fails and recovers by ~5-7% when you open and close CTools.
1–AX426L5	CTools	Ctools forcefully terminated during the C300 FPGA Patch Upgrade on Experion R430.6.
1–CCBUNRL	DDManager	After the deletion of a template, importing DD using HARTDDManager fails to list the tmpltename in HCFGDEV drop–down.

PAR	Function	Description
1-DMM7DSB	Detail Displays	The selection list comes on top of the Confirm button in the Notification pane of the OTP.
1-9BWUDZ1	EBM-Controller	Dynamic Fetch configured on SCM does not show the transition status properly when you try to zoom and open.
1-DFOYQDA	EBM-Controller	Experion Batch defects from static code analysis with no major user impact.
1-DFQE1R9	EBM-Controller	Enable confirmation on Station call out for Operator changes from Batch Summary/Detail display.
1-DK5NIQL	EBM-Controller	Unable to remove orphaned activity which is in Aborting or Aborted state.
1-DIL5ZGX	EBM-Controller	Transition gate status continues to display "remote fetch pending" though gates are evaluated.
1-DNMTCV1	EBM-Controller	Dual C300 failure with error code 0x046d.
1-DMK1WTJ	EBM-Controller	Controller failure observed when activating or executing SCM.
1-DPILHL5	EBM-Controller	Remove EBM Exception Hard fail logic in Controller to track this.
1-6CDPENZ	EBM-Controller	Both of the Redundant C300s fail with 00D2 error code due to invalid configuration.
1-A29JS0I	EBM-Controller	Elements can be missing from the unit time line and PE after console station or non-redundant server reboots.
1-CFA40WN	EBM-Controller	Child activity re-creation does not happen in Peer UOC after it is set to Inactive and then Active.
1-COI8J91	EBM-Controller	Cancellation does not happen for the Recipe Block element after

PAR	Function	Description
		JUMP, when the Activity is completely removed.
1–CPSQBVD	EBM-Controller	Parameter values cannot be written to the Procedure data block through this step when lookahead is enabled.
1–PK1QJ5	EBM-Controller	CR stays in 'Acquiring Resource' state after issuing START to it after Circular OPM of C300.
1–DNF2N4P	EBM-Tools	Data Block fails when attempting to modify a parameter.
1–83GC8XX	EHB_Translator	HSECreator Tool in Experion R500.1 media is not up to date.
REUCN–1244	EHPM HART	All HART or non–HART AO channels displays 'Initialize Request' alarms although the channel is in good state in the Native Window when they are in FULL mode.
REUCN–1262	EHPM HART	The Alarm tab data in System Alarms is not consistent with C300-PMIO setup.
REUCN–1264	EHPM HART	Active alarms get disabled in System Alarm Summary, when you load a HART PMIO from Project to Monitoring side.
1–AZI99W3	EIP-CEE-EMBEDDED	EIP PF755 unable to write the output parameters.
1–96E4ICX	EIP-CEE-EMBEDDED	Experion R500.2 C300 OPM fails when using (EIP Driver) PF755 channel in CM.
1–CHWUGO5	EIP-CEE-EMBEDDED	EIP Device Reload fails with the error "IO Add Connection Failed" after Migration/Freeze and SW.
1–6CROGAL	EIP-COMMUNICATION	Simultaneous switchover of EIM and C300 results in EIP devices failure and CLX strategies.
1–8X60QDF	EIP-COMMUNICATION	Experion R500 cannot read more than 32-bit with the EIP module.

PAR	Function	Description
1-A2419U5	EIP-COMMUNICATION	BL20 Input modules gets dropped-off randomly during EIM switchover.
1-B7LICEN	EIP-COMMUNICATION	CLX UDT tag read fails randomly on C300 switchover.
1-5Y86F0D	EIP-COMMUNICATION	EIP-C300 connection limitation with only 31 devices employing multi-cast which can connect with C300.
1-81VFC5T	EIP-COMMUNICATION	EIP armor point IO devices disconnects momentarily on UOC switchover.
1-CONFQL5	EIP-COMMUNICATION	Duplicate entry gets created for IO modules on reload after switchover.
1-6WUEV3D	EIP-Tools	C300 allows loading the EIP protocol without a valid license.
1-8QJNVJ5	EIP-Tools	Description of the Scaling parameter is not consistent with the corresponding Input/Output parameter.
1-8V4J2SJ	EIP-Tools	EIP Type definition-SaveAs function causes the ERDB to corrupt.
1-AA9LF65	EIP-Tools	EIP Generic Device configuration shows "An unexpected error was encountered".
1-AAQV8SN	EIP-Tools	PNTTYPE is not set for few EIP drives and IOs whose template is imported.
1-BE8UXD9	EIP-Tools	PV value is not getting scaled for custom EIP templates. It always shows zero.
1-6WOK7XT	EIP-Tools	EIP devices communicate through EIM without a valid license.
1-B7HB31L	EIP-Tools	Unable to download a Generic EIP device when the generic device is checked in.

PAR	Function	Description
1–DS006BX	EHPM_Control	While loading EHPM (Primary/Secondary), loading fails due to UCN COMM and 07 07 Communication error code.
1–DO4NBAB	EHPM_Tools	Unable to flashback EHPM modules from R511.5 Build 507 to any release.
RELCN-2961	ELCN Appliance–ENIM	Primary ELCN UEA ENIM fails and does a successful failover during Stability Test for C300PM.
RELCN-2976	ELCN Appliance–ENIM	During ENIM FAILOVER from Native Window, the new primary goes to FAIL state.
1–DMZ55AL	ELCN–Bridge	Node reboot request does not work after LCNI transmission gets stuck.
1–DPQRPL9	ELCN–Bridge	LCNI may cause the backup node to hang during startup in case of a failover scenario.
1–DUF50NF	ELCN–Bridge	ELCN Bridge fails on load.
RELCN-2299	ELCN–Bridge	ELCN Bridge fails on load after flashing the ELCN Bridge recovery to "UEA_110.1–03.0" and the application to "EXP511.1–20.0".
1–B4RP0Z9	ELCN–Bridge	After upgrading to ELCN, you periodically get NIM TIMESYNCH DEGRADED messages.
1–B6PNJ13	ELCN–Bridge	PCDI module 7 error in FPGA.
RELCNTN-6130	ELCN_UNIFIED_TOOL	OTS loading of points through Import Utility fails due to Unit ID validation.
RELCNTN-6145	ELCN_UNIFIED_TOOL	Import Utility is not importing PMIO channel data for the IOPs, even if no channel of that PMIO is used as CDA–SP.

PAR	Function	Description
1–DN3X7YN	IEC61850_Embedded	Sometimes watchdog Logic report process alarms when IED disconnected in EIM downlink network.
1–DS51WAH	PROFINET Embedded	UOC Profinet Statistic shows wrong value after F and S and switchover results in device communication failure.
1–DR0VH67	PROFINET Tools	Cisco IE2000 parameter change and load under EIM fails to reconnect.
RELCNTN-2116	ELCN_UNIFIED_TOOL	When 'Load Server points' is done, the EHPM points transition to RED permanently.
RELCNTN-2142	ELCN_UNIFIED_TOOL	All PMIO Detail displays show no data in the Experion Station.
RELCNTN-4439	ELCN_UNIFIED_TOOL	Issues in Monitoring view, when PV and Ctl algorithm is changed in the Native Window.
RELCNTN-4471	ELCN_UNIFIED_TOOL	ELCN Import Utility – AM units get re-written when CP of a single unit is used.
RELCNTN-5191	ELCN_UNIFIED_TOOL	RAISDSTN & LOWRDSTN block pins of the PIDPOSPR point (XPM & EHPM Template) are unable to connect to the DO ONPULSE and DO OFFPULSE pin.
RELCNTN-5216	ELCN_UNIFIED_TOOL	Upload and update has to be performed twice for newly enabled parameters.
RELCNTN-5229	ELCN_UNIFIED_TOOL	Unit Identifier and Auxunit do not appear on Project side after performing upload and update operation for xPM template.
RELCNTN-5241	ELCN_UNIFIED_TOOL	CDS package that is added in Native Window does not get updated in Control Builder Project side when an upload and update is performed.

PAR	Function	Description
RELCNTN-5261	ELCN_UNIFIED_TOOL	For an AM Flag point, all parameters in Alarm Configuration tab in Monitoring side of the Control Builder gets grayed out.
RELCNTN-5322	ELCN_UNIFIED_TOOL	Monitoring side edit of the Numeric and Logic array does not work.
RELCNTN-5340	ELCN_UNIFIED_TOOL	ELCN Database Import Utility is unable to handle naming convention of IOMs properly when two IOMs have the same name.
RELCNTN-5342	ELCN_UNIFIED_TOOL	While Monitoring, only deletion is performed for a point in Control Builder Monitoring side. And there is a loss of view in Experion Station display and loss of Trend for the deleted point.
RELCNTN-5494	ELCN_UNIFIED_TOOL	Unable to delete any EHPM point from Control module.
1-AVWYG9T	ELCN-TNode	ELCN nodes go to ISOLATED state when there is a dual clock master in LCN.
RELCNTN-5280	Engineering Tools	TPN Server and LCNP's RPARSEC load increases by 940PPS when a CDS with 1000 Boolean array is opened in Control Builder Monitoring side.
RELCNTN-5482	Engineering Tools	CM (CDA-SP P2P to C300) load fails after switching connection from ELCN Import Utility.
REUCN-1263	Engineering Tools	The HART parameter System Alarms do not get reported in the Configuration Form of I/O channel in Control Builder.
REUCN-2550	Engineering Tools	C300PM I/O Peer references in CMs under C300 Controller shows ??? after HART IOP Migration.

PAR	Function	Description
REUCN-2747	Engineering Tools	Unable to enable "perform DEB operation" on Platform Block.
1-DUQ9ZDP	EHPM Firmware	Dual EHPM failure, when both ELCN and EHPM Import Tools are used on the same EHPM.
1-DMBVMLV	Experion TPS Engineering Tools	Upgrade tool is not visible on Server B Configuration Studio with the Domain account.
1-DN0NL47	FDS – Field Device Service	pschartmux at 100% CPU with Experion R511.x.
1-3YP8N6Q	FF Interface Modules	FIM4 unable to upload an FF device.
1-402JB2N	Fieldbus Interface Module-Series C	FIM8 module re-designed to handle Yamaha controller obsolescence.
1-Q407YH	Fieldbus Library Manager	In Method manager, scroll bar is unavailable and the Get string value built-in method is not supported.
1-47OWQ64	I/O-Series C	UIO channels configured as AI does not meet the specifications in terms of accuracy.
1-B5R3JI3	IEC61850_Tools	IEC61850 SEL710 Device template cannot be assigned to the IED block in Control Builder due to error 6L.1019399.
1-DLHXVTR	IXP-Import Export	SCANGRPDTL parameter is changed to Default after migration to R520.
1-8UIXMMP	IXP-Import Export	Importing CMs into Control Builder with "Overwrite Existing Objects" option enabled fails.
1-D07GTDD	Modbus TCP Infrastructure	C300 Primary and Secondary fails with error 03A9 which results in loss of control.
1-DCTM5YL	Modbus TCP Infrastructure	C300/UOC Primary and Secondary fails with code 00D1.

PAR	Function	Description
1-DKJT94H	Modbus TCP Infrastructure	PCDI Flag Array write operation fails with an Internal error message.
1-82LFAOS	Modbus TCP Infrastructure	Sockets get opened for unused connections, when primary or secondary is selected as the connection to be used.
1-7OER2JD	Network-FTE	FTE Driver generates invalid ARP requests adding to ARP traffic.
1-DNF9ULP	Network-FTE	FTE B cable failure occurs randomly on the classic ENIMs.
1-968GWXU	Network-FTE	FTE Status Display tool has failed to detect migrated Server B as a node in the dual primary state.
1-9L7N7TP	Network-FTE	PCDI communicates with SM and reports connection failure and data loss frequently with UOC.
1-B0RU5SZ	OPM-Upgrade Tool	UT Tool fails in R511 C2TP4 when C200E is loaded.
1-D2G858M	PDA	Need to patch INTEGRITY O/S due to Ripple20 vulnerabilities (C300,FIM,FIM4,PGM).
1-D3HI7ET	PDA	Loss of PDA communication between C300 and PGM during Printer Driver installation in Console node.
1-DHWLIRD	PGM	An error "BAD_DEVERROR" remains after pulling out and re-inserting an AI card on Siemens ET200M.
1-I1C2F3	PGM	CPULoLo Resource and CPU Lo Resource Alarm on PGM switchover.
1-3YT7GW5	PGM Hilscher Comm Stack	Process Data Bytes get swapped after power cycle of PGM, if byte order is towards the little end.
1-7L4QUY9	Profibus Interface Modules	GENPA/GENPAGW DSB fails to

PAR	Function	Description

PAR	Function	Description
		interpret digital values as defined in Profibus PA profile.
1–BS3DPUV	Profibus Interface Modules	Primary PGM fails with 03A9 eror and switches over to the Redundant partner during runtime.
1–AX415VR	PROFINET Embedded	UOC fails to report alarm for Profinet devices BL20 and TBEN after switchover.
1–D89LON5	PROFINET Embedded	Profinet S2 Primary connection toggles during MRP fault near EIM ETH3.
1–D8B223R	PROFINET Embedded	EIM in the Client role does not clear its forwarding database during a Topology change.
1–DI21CQ9	PROFINET Embedded	Secondary UOC undergoes a rapid memory drop.
1–9VJGDZX	ReferenceBlock-Tools	IOPOINT BLOCK configuration moves from the existing to a new one after importing and renaming. .
1–43HH26R	SCM-Sequential Control Module	HOLD handler occasionally runs without executing internal logic.
1–46DWNET	SCM-Sequential Control Module	Main handler is unable to invoke the interrupt handler through IC after a change in the handler.
1–9CGRENF	SCM-Sequential Control Module	Loss of Control has a controller issue that the SCM is not working properly due to peer memory issue.
1–4DR5Q0L	Standard Series C IO Modules	Pulse accumulator on UIO skips pulses.
1–DEQB1HI	System Repository	SRDB fails when it reaches its size limit for a 32–bit application.
1–DHB33ID	System Repository	Potential System Repository service fails with multi–thread application access.
1–8JRVKNZ	System Repository	EHB C300 emulations create

PAR	Function	Description
		duplicate point alarms when IOM changes its state.

8.1.4   Servers and Stations

PAR	Function	Description
1-DT3T9GH	Redundancy-Server	Re-attempts at synchronization to dual primary (while migrating database) during an R43x to R5xx OPM may fail to reach the dual primary.

8.1.5   Documentation

PAR	Function	Description
1-BCCX1ST	Missing/incorrect information	In the R501.4 SCN (EPDOC-X166-en-5014E,May 2019) , the "HUM2019-001 " information is not updated.
1-9AWSTXP	Missing/incorrect information	PGM User Guide clarification regarding Active Terminators.
1-AI0OD15	Server and Client Documentation	Experion HS – DynAMo Alarm Help Integration.
REXPDOC-660	Application Developers Guide	Documentation for hsc_lock_record usage requires updation.

8.2   Resolved PARs in Experion R511.4

8.2.1 Installation and Migration

PAR	Function	Description
1-D5N87MD	IXP-Import Export	Block type import failure during Migration from R432.2 HF8 to R511.4, at restore control strategies.
1-CTSLJJX	OPM-Controller Migration	FIM8 OPM is failing with the "LCF open file error". Also, mismatch in FIM8 folder and ver_rev observed.
1-CPJEG3R	OPM-Controller Migration	Include R511.4 support for migration from R410.9 HF13 (UIO FW) and R432.2 hf10 (UIO2 FW).
1-D8TEJG4	ELCN Experion– TPS Nodes	After ESVT is migrated from Experion R501.4 to R511.3 EHPM reports SOFTFAIL due to IOL errors.
1-B6YPO47	EBM-Tools	During Dual Primary State, delta flag appears on Project and Monitoring strategies after Server migration.
1-CKUCSWR	AddIns	Quick builder opens migration wizard again, in server A after migration is completed.
1-BZU6UUT	INS-Experion Installer	Experion update manager stopped working while migrating server and ES-T to R511.3 and R511.4.
1-6L3M1PS	Control Builder– Load/Upload/Update	Upload Falling for SCM with JumpZones on C5 TP9.0 build 97 and controllers on R410.9.
1-8G2HW29	OPM-Controller Migration	on-Process migration failed from C300v3E to C300v3E.
1-AX3AF12	Software Configuration Management - Phoenix	R501.2 EIM and UEA firmware folders are not present in R510.2 Rev 3.
1-AXNH3DH	Control Builder	Server migration failed in restore control strategies step, due to duplicate entry in DB.

PAR	Function	Description
1–B0RU5SZ	OPM–Upgrade Tool	UT Tool shows application error in R511 C2TP4 when C200E loaded.
1–BMICR5V	INS–Experion Installer	"System Configuration" Step taking more time than what is showing in install sequencer.
1–BMZ21SH	OPM–Migration Readiness Tool	LOC on UOC OPM in presence of DLR ring network fault.
1–CP3SUR1	QVCS For Displays	QVCS state change is not working after server migration.
1–D7B3GY7	INS–Experion Installer	During ELCN HM OPM, wizard halts at ESM client step with an error message.

8.2.2   Common components

PAR	Function	Description
1–CY9GXAR	CM–Configuration Management	C300 controller firmware flash fails with error "LCF file open Error".
1–CGEKUJE	INS–Experion Installer	Experion_wrapper stops working at Experion_TPS_System_Displays step.
1–D3WJPXL	QVCS	QVCS Qualification state configuration is not working as expected.
1–CQWWN4H	INS–Experion Installer	Group policies were reverted to the original state though user changes the policy to a different value.
1–CQ7VYGP	Security Model	Blank passwords are not recommended as this will cause RDP connection failure.
1–CRS5POZ	Server – Reports	Report is not printed from printer.
1–D4L6HAF	SafeView	SafeView buttons are not aligned and have small blank space after Infrastructure hotfix install.
1–AT0N8KB	I/O–Series C	Series C Pulse Input Module configuration and usage info is missing in documentation.
1–D2NTZW7	Network–FTE	ARP broadcast storm generated during

PAR	Function	Description
		file transfer resulted in loss of view.
1–5X96F9U	Signon Manager	New ACS Card Readers do not function with MFA or Signon Manager.
1–CURAMZP	System Management	Experion System Management using multicast address and port can be used to cause a denial of service.
1–968GWXU	Network–FTE	FTE Status Display Tool failed to detect migrated Server B as a node in dual primary state.
1–9W77YI9	CEUOC-Platform-Virtual	First-time switchover after enabling FT results temporary LOC with CE900 IO.
1–A1P6NR9	Network– Equipment and Support	IGMP General Message sent with 0.0.0.0 IP address as source by add route function.
1–A29JS0I	EBM-Controller	Elements can be missing from Unit Timeline and PE after console station or non–redundant server reboot.
1–AVWYG9T	ELCN Experion-TPS Nodes	ELCN Nodes go to ISOLATED state when there is a dual clock master in LCN.
1–BL0X317	Network–FTE	Yellow Switch Power Recovery may cause momentary failed read/write connections to ESV OPC/TPN/DSA.

8.2.3   Controllers and Tools

PAR	Function	Description
1–D38N6JJ	Control Builder	C300 Checkpoint rebuild failed with P2P strategies of C300-EHPM.
1–DEQB1H9	Control Builder	Clear all Locks causes bulk update of the SRDB.
1–D0R1UNH	Control Builder-Bulk Build	Create Bulk Edit does not exposeTrans Block para OP [x].SRCEXPR or C[x].EXPR in Recipe.
1–D9O6N83	Control Builder–	Connection between the block for

PAR	Function	Description
	Load/Upload/Update	the CM is lost and all the blocks have error 7005 after a reload operation.
1-CLNH8R3	Control Functions – Continuous	Application error on C300 dual due to Ethernet/IP unassigned blocks.
1-COI8J91	EBM-Controller	Cancellation does not occur for Recipe Block element, when Activity is removed after JUMP.
1-D3US6KV	EBM-Tools	Server Migration database from R510.1 to R511.4 failed.
1-DAMHAVD	Ethernet/IP–COMMUNICATION	Ethernet/IP devices drops connection momentarily on UOC switchover.
1-D89EOVV	Network-Equipment and Support	ACLs in Level1 and Split switch configurations cause no CDA Common with Controllers.
1-D3UAU53	PROFINET Embedded	During EIM switchover S2 device message floods the network.
1-CYSE4V2	PROFINET Embedded	EIM–PNET_LINK Profinet statistics does not work, returns 7011 error.
1-D0B0X6W	PROFINET Embedded	Output intreq is not generated when output module is pulled out.
1-D2OYKYJ	PROFINET Embedded	Profinet device load throws error while loading and not recovering.
1-D24BYWF	PROFINET Embedded	Primary EIM rebooted and secondary shows undesirable behavior on switchover operation.
1-CXZDZGJ	PROFINET Embedded	EIM Profinet Statistic shows Err7011.
1-D39YHD8	PROFINET Embedded	DCP scan does not work in B22.
1-AY4OGA2	PROFINET Embedded	After Checkpoint restore and UOC cold start, diagnostic alarms are not getting reported for bl20.
1-CZ3KSYT	PROFINET Tools	ET200S GSDXML parsing is taking more time for Profinet

PAR	Function	Description
		configuration tool.
1–D1W4QUF	PROFINET Tools	Profinet configuration tool fails to create new Profinet device in EIM.
1–D1W4QUM	PROFINET Tools	Profinet configuration tool does not retain Profinet devices configuration.
1–CV1ENUJ	PROFINET Tools	CM fails to load with AI\AO Channel IOPOINT_PARAM with PID block.
1–CUVPIT1	PROFINET Tools	Edit submod from tool creates multiple entries under same slot container. Fails to delete.
1–D6KJW51	PROFINET Tools	EIM Peer connection with C300 still remains on hold after deleting Control Module with Output reference notes.
1–D2XHJJX	PROFINET Tools	IMPORT of sub module fails for EIM with UDS IO point.
1–CUYMNE1	PROFINET Tools	Not able to delete wrong sub module from PN configuration tool.
1–D8VAH89	System Repository	SRSB SQL Migration Plug-In stops ER Server service during Data Collection using EMDA.
1–D191309	Control Builder–Load/Upload/Update	License limit 600 of template AI exceeded error, but only have 366 of 600 used.
1–CXEI5GA	Ethernet/IP–COMMUNICATION	Virtual UOC. Write operation to aggregate Ethernet/IP-UDT is not working. Unreliable write operation.
1–D541SLJ	Control Builder–Search	Online Data Search (ODS) does not terminate automatically if called via command line command.
1–CTKPX0H	EBM–Controller	When Master recipe is aborted, events are not generated in the event summary for the report parameter.

PAR	Function	Description
1-CPSQBVD	EBM-Controller	Parameter values are not getting written to the Proc datablock via step when look ahead enabled.
1-BU1ZAFB	Control Builder-Fieldbus	Fieldbus Device Instantiable Block upload/update.
1-AILT9K1	I/O-Series C	CC-TAID01 HART possibilities.
1-BBMTAPX	Control Builder	IXP drops impossible connections during import but indicates success.
1-CPSNCX2	Control Builder	Not allow to configure even number device index / IP of Remote field bus Interface.
1-D3GYO1D	Control Builder-Configuration Form	Default CDP values not updated accurately in Cab block. Differs from given value in Parameter Def E.
1-CWOMLGT	I/O-Series C	UIO-1 Hard Fail and causes loss of control affecting the entire IOlink bus.
1-CNYJ4D1	Control Builder	Creation of Diagnostic Templates from DD fails in PET if DD has conditional exp in cmd48 string.
1-CXERXXT	EHPM_Tools	EHPM Display overload warning is reported for 4 seconds and cleared when RESETSTAT is turned ON.
1-CXFOZ1W	EHPM_Tools	EHPM Display overload. Alarms came up without any additions to the system.
1-CXT3OW1	Control Builder-Assign	You can reassign CMs in Project while its loaded to Monitoring.
1-D40GWMT	HDB Display Report Addin	HMIWeb Display Builder should display a warning message when a display exceeds performance criteria.
1-CR01F1P	Property Sheets	As a system engineer user should be able to configure output states for status points using three bits in Quick Builder.

PAR	Function	Description
1–CL6V0NY	SQL Database	Quick builder migration failed with error 'Unable to overwrite QBDB database' at dual primary state during server On–Process Migration.
1–AX415VR	PROFINET Embedded	UOC fails to report alarm for Profinet devices BL20 and TBEN after switchover.
1–C5VLXHR	Control Builder	Control Builder shows application error while Container CM is loaded.
1–CFA40WN	EBM–Controller	Child activity recreation does not happen in Peer UOC after it is set Inactive and then Active.
RELCNTN–5340	ELCN_UNIFIED_TOOL	ELCN DB Import tool is not able to handle naming convention of IOMs properly when two IOMs have the same name.
1–A9LTVF1	Control Builder	Not able create and save UDT of DEVCTL block.
1–CCBUNRL	DDManager	After deleting a template, import DD using HARTDDManager fails to list template name in HCFGDEV drop-down.
1–CUM1GLJ	Control Builder–Automated Device Commissioning	ADC Loop check support for certain Rose mount, VEGA, E and H field devices, no support for HART command 40.
1–AX415VR	PROFINET Embedded	UOC fails to report alarm for Profinet devices BL20 and TBEN after switchover.
1–CFA40WN	EBM–Controller	Child activity recreation does not happen in Peer UOC after it is set Inactive and then Active.
RELCNTN–2143	ELCN Experion-TPS Nodes	In Experion R511.4, EHPM IOM modules in Control Builder Monitoring side may not work for some parameters.
REUCN–1244	EHPM HART	All HART\Non–HART AO channels

PAR	Function	Description
		displaying 'Initialize Request' alarms although the channel is in good state in Native window when they are in FULL mode.
REUCN- 1262	EHPM HART	The alarm tab data in system alarms is not consistent with C300–PMIO setup.

PAR	Subsystem	Description
1–C8PRYLO	Control Builder–Listview	The following enhancements are made to the List View Selection List. • Tag will be selected, when user searches for the tag name in tree view. Chart will not be opened as part of the selection activity. • Project side/Monitoring side List View supports Selection List file and can used to filter the items.
1–C8TGEF6	Control Builder–Bulk Build/Edit	Create bulk edit does not read/write the SCM/RCM parameter OP [1].SRCEXPR.
1–AU7FMDT	EBM–Tools	When master recipe is loaded, a newly added map block to an associated unit class cannot be deleted.
1–CAULHA1	IXP–Import Export	Provide IXP Support for overwriting CBT.
1–CBMQUUF	CEUOC–Platform	Unexpected UOC failure due to DLR ring fault causing low CPU free.
1–C9L0T2X	Control Builder–Batch	Validate master recipe derived user defined template change parent to system template.
1–B1YONAD	QVCS	ERDB corruption after break in relationship with parent.
1–CXDKZBR	Control Functions – Batch	vUOC shows application error as a result of multiple nested

PAR	Subsystem	Description
		transactions.
1-D0DKVMH	Ethernet/IP-CEE-EMBEDDED	Ethernet/IP I/O connection leak causes UOC– Ethernet/IP communication errors after controller on Process Migration (OPM).
1-CVXCFE0	CEUOC–Platform	Memory leak in UOC limits runtime to approximately 800 days.
1-D9A08I3	EBM-Tools	When importing a unit instance the NUMPARAMREF, NUMFNCREF and NUMBLKREF parameters should be ignored.
1-CP9S3JP	CCL	FREEZE function block INITOPT not working as intended.
1-D2BLGMY	Control Functions – Batch	CEE phase overloaded with modules when phase is configured with -1.
1-D57QCK3	Control Functions – Batch	JUMP functionality from Procedure Explorer is not working if Lookahead feature not enabled in CEE.
1-CVXZBY8	Control Builder–Change Parent	After change parent of a versioned strategy, revert to previous versions is blocked.
1-CONFQL5	Ethernet/IP-COMMUNICATION	Duplicate entry is created for IO modules on reload after switchover.

PAR	Subsystem	Description
RELCNTN–5491	ELCN	EHPM Timer Point and Totalizer values are not displayed correctly on Control Builder Monitoring Side and Experion Station Display.
RELCNTN–2077	ELCN	Self–Defining enumerations type are not supported for FLAG Device Control and Digital Composite points.
RELCN–2760	ELCN	EHPM Authentication Issue.
RELCN–2848	ELCN	When points are deleted randomly in the ENIM, unrelated points disappear from EHPM Slot Summary display

PAR	Subsystem	Description
RELCNTN-5076	ELCN– EHPM	PV Source for EHPM AI Channels shows always SUB in Experion Detail Displays and HMI Web Displays.
RELCNTN-5305	ELCN	AO channel (EHPM template) has issue in monitoring side.
RELCNTN-5336	ELCN	While configuring Slot number more than 27 error is displaying and not accepting the number for LLMUX channels if EUCN template was used.
1–DBI8BK5	ELCN Experion– TPS Nodes	Some HLAI IOPs reports IOL Error when its form is opened in UET Monitoring View.
1–C8DFBPU	Control Builder– Listview	Values not displayed for various parameters in the Listview when CPM is checked into QVCS.
RELCNTN-5505 RELCNTN-5506 RELCNTN-5529 RELCNTN-5546 RELCNTN-5541	ELCN	PV, OP and STATETXT parameters are not displaying appropriate values for Device Control and Digital Composite points on Experion Station Detail Display Faceplate.
1–D8UVDVP	Control Builder	In R511.3, Substitute Connections with few EUCN Block types do not work as expected.
1–DFIRBR5	EHPM_Control	Custom graphics with EHPM–CDA points randomly display false indications for REDTAG, I0, I1, SI.
1–DFIRBRF	EHPM_Control	EHPM resources may deplete over a period of time when used with CDA integrated systems.
1–DBG1WI5	C300 Controller	Enhance Redundancy Manager diagnostics.
1–DELOHA7	ModBus TCP Blocks	Assigning multiple blocks to the same PCDI channel causes controller failure.
1–D1G79VJ	ModBus TCP Blocks	PCDI is unable to establish communication with devices. Socket error 36 is observed.

PAR	Subsystem	Description
1-DD06IMB	OPM-Upgrade Tool	When running the 'Upgrade Tool – Prepare ACE nodes for cutover' tool, it is unable to complete the upgrade.
1-BLQW371	EBM-Controller	Error occurs while loading the recipe step type having 100 parameters. Only 50 parameters are enabled.
1-D2BCKPD	IXP-Import Export	When importing the Master Recipe, X-UNITNAMEREF and TARGETREF lose their template defining attribute.
1-DEQB1HI	System Repository	System repository process fails on the primary server when the process private bytes reaches the 32GB process size limits.
1-DBGI3KZ	Ethernet/IP-Tools	During switchover, UOC event shows HART notag notification but no HART device is found in the database.
1-DE6GIZZ	Ethernet/IP-COMMUNICATION	Ethernet/IP Scale memory, Auxiliary memory allocation does not have Confirm Memory on the Ram Retention Restart (RRR).
1-DGKV5EK	Ethernet/IP-CEE-EMBEDDED	Improve Ethernet/IP Custom parameter validations with respect to out-of-bounds array accesses.
1-DEI7HBL	EBM-Controller	Confirm memory is missing for custom range Auxiliary memory.
1-DEO4FX8	PROFINET Embedded	User Defined Symbols (UDS), Auxiliary memory handling needs to be done as mentioned in PAR 1-DE6GIZZ.
1-DFABAVL	EBM-Controller	References to the Master Recipe data must be cleared after the initial Control Recipe creation.
1-DFOYQDA	EBM-Controller	Experion Batch defects from static code analysis.
1-DFZ0BDJ	Control Functions – Batch	Master Recipe-Control Recipe chains could be corrupted if certain checks return error.
1-DFOEX6L	CEUOC-Platform	Add Instrumentation in UOC to log more information and generate complete core dump during reboot.

PAR	Subsystem	Description
1-DDA4XWB	Control Functions – Batch	Dynamic Peer to Peer fetch is not working with flying transitions configured in the Master recipes.
1-BXK1A29	Ethernet/IP–COMMUNICATION	Device specific HART notification alarms do not show correct alarm descriptions.
1-DG1U59R	CDA-Embedded	The redundant UOC fails frequently in the stable run.
1-DFO40H3	CDA-Embedded	CDA req/resp access of 255-character strings (maximum CEE supports) returns error 7023.
1-DGO6IYP	CK-Control Kernal	CEE memory in UOC must run out before memory descriptors.
1-DE7CBWH	Control Functions – Batch	Potential Dual UOC controllers fails leading to a loss of control.
1-DHEV8J0	EBM-Controller	User is unable to remove a CR that is stuck due to low clone resource with "Lookahead disabled".
1-DHVCD1T	CEUOC-Platform	UOC should keep forwarding the DLR packets even when it is in ALIVE/RDY/FAIL state.
1-DI21CQ9	PROFINET Embedded	Secondary UOC losses rapid memory.
1-DI6US2J	EBM-Controller	vUOC failure is observed while performing batch operations.

8.2.4 Servers and Stations

PAR	Function	Description
1-D58XOSZ	SafeView	Station stopped working when launched with SafeView multi-window.
1-C1JK73T	Experion Station-Gus Display	While entering the OP in GUS face plate for a second time, the OP number is getting smaller size.
1-CRNR14R	Upload/Import	History configurations for Auxiliary

PAR	Function	Description
		parameters (A1-A4) on Analog Points is lost after upload/import in Quick Builder.
1-D8QU3H9	Algorithms	If action algo 77 is invoked, it may display "Display file page://0 not found" message on the station instead of calling up the display.
1-D9KGN4B	Algorithms	When a point configured for algo 26 is put in manual PV, it continues to integrate using the Input value rather than the PV value.
1-C6GVBMD	Batch Manager	In rare cases an application error is observed in server Activity Manager causing the Activity Summary to become unresponsive.
1-D0W2NOH	Batch Manager	Batch Data UI General tab does not show the most relevant fields and consistently fills them with data for child activities/phases and SCMs have no data.
1-D1UCUMD	Batch Manager	Resource use in Activity Manager may increase if Station unexpectedly terminates with Batch Timeline or Parameters UI open.
1-CK7BK97	Batch Manager	Parameter details may show blank if not viewed within 7 minutes of opening Batch Summary or Procedure Explorer.
1-DCKCULD	Batch Manager	In rare scenarios Batch Summary will temporarily show questionable status when Units are downloaded from Control Builder
1-DBG2J2D	Batch Manager – API	If an Experion batch system has a large number of recipes an MES may receive an error when trying to retrieve a filtered set of recipes.
1-DCITVSP	Batch Manager – API	In rare cases, if GetActivityList is called with a tagname filter, the Experion BatchAPI will not return the expected number of activities.

PAR	Function	Description
1–D91RGZF	Batch Unit Timeline	Unit Timeline bar names can go off-screen and not be visible to operators without panning.
1–DA4P5LX	Batch Unit Timeline	Enhancement to Unit Timeline to remove or retain predicted messages if they occur late or early respectively
1–CY7SFXR	Displays – General	If virtualization is not licensed, the tabs on the redundant server displays may not work.
1–A6Q048R	Displays – Point/Group and Faceplates	Unconfigured parameters are shown on SCADA faceplates.
1–CJK60ZJ	DNP3 – Interface	Loss of view to data on DNP3 channel may occasionally occur after performing a server switchover.
1–CL9KB5D	DNP3 – Interface	Bad or stale values are occasionally displayed for parameters on DNP3 level 3 controllers or ABB controllers.
1–CR024V5	DSPLY Subsystem	Invoking a display with numbers only in the name using request task may fail.
1–D9DQCD5	Displays – General	Script error prevents setting of DSA Advance security password.
1–DACCGNP	Displays – SCADA Controllers	The SCADA Controllers display may fail to load if controllers have descriptions with non-English characters.
1–DCLQYWD	Displays – SCADA Controllers	SCADA Controller display will not load on a Console Station unless the first Console Station is running and will always use the scope of responsibility of the first Console Station.
1–C270NNT	DSPLY Subsystem	Message zone shows incorrect value for a timer point-parameter.
1–DCJI333	DSPLY Subsystem	After migrating from Experion R431x to R501.x you may not be able to add points to the history assignment display being prompted that a higher

PAR	Function	Description
		security level is required despite having the required security level.
1–DD3G01Z	DSPLY Subsystem	After a server switcher, ENIM, AM, and EHPM items in Control Builder monitoring tree may show in red and errors may be shown on the detail dialogs for these items.
1–DDZ6HR5	DSPLY Subsystem	ENIM, AM, and EHPMs and their points may show as gray color in the monitoring tree in Control Builder which indicates that Control Builder was unable to show their status.
1–D87XWJT	Electronic Flow Measurement	Electronic Flow Measurement collections can prevent an overloaded channel from recovering from the overload condition.
1–D88IBU3	Electronic Flow Measurement	Electronic Flow Measurement will repeatedly collect all records laid down after migration to R511.3 after an EFM manager restart, increasing system load.
1–CW11S11	Eng – Server DB Config Utility	Databld import fails if trend range is greater than 1000000.
1–CBIW1O7	Event Archiving	In rare circumstances, server synchronization may fail during event synchronization on systems that have logged a very large number of events.
1–CPXZH8B	GDA – DSA Events	Some batch report parameter events are occasionally hidden on the Event Summary live view.
1–CQX8ATD	GDA – Notifications	Console station notification redirection will fail if the console station is synching to the Server for the first time and there are greater than 5000 activities in the System.
1–8R62ONF	GDA – Points	DSA Status page does not show correct "current primary server" when the publisher is in Dual Primary.

PAR	Function	Description
1–BY2ZUO5	GDA – Points	Rare instance of a network disruption affecting a DSA link can cause brief inverse video on other connections after 2 minutes.
1–CWIQ7GP	GDA – Points	If history is requested from a disabled DSA server, Console stations connected to the subscribing server may disconnect
1–DCITVT2	GDA – Points	In rare cases when an activity is created points may go inverse video temporarily
1–DDYO3Y3	GDA – Points	Temporary inverse video on displays may be seen in systems with console stations if system points are being removed
1–6WM9PV1	IEC 61850 Interface	IEC61850 SCADA state descriptor shows wrong symbols in alarm summary when in Russian language.
1–8QLLBB3	IEC 61850 Interface	Export dialog does not show configured IEDs.
1–CDWUN83	IEC 61850 Interface	Reports are toggling between enable and disable for IEC81850 integrated GE DI SOE Module.
1–CKUIFSX	IEC 870 Interface	IEC870 synchronization Utility fails to synchronize the IEC870PSDB database.
1–DB17ZD1	License Management	New license option to be introduced for EIM-Profinet.
1–B2JP1OV	Notification Management	On a system with no Console Stations, when a CDA confirmable message is confirmed using the Message Summary, the message will return to the message summary as confirmed but unacknowledged.
1–DDIWUZ3	Notification Management	Alarm Help popup may not show non-English characters correctly when used in ACM or Limit help text
1–9HINTZF	Notification Presentation	Alarm summary does not include a space between the value and units

PAR	Function	Description
		columns, making alarm data difficult to read.
1–CYDW00Z	Notification Presentation	If the Summary Displays font size is set to medium or large, underscores in tagnames are only visible if the individual item is selected.
1–D3ZEOS9	Notification Presentation	Alarm Help in Alarm Summary is not presented correctly and scroll bar hidden
1–AC8ZDL7	Notification Presentation	On Finnish translated systems, Single alarm selection and acknowledge does not work in sysAlarmSummary and sysSystemSummary display.
1–BCCK2WR	Notification Presentation	If an Alarm Table on custom display contains the Live Value field, the server log file may generate an excessive number of events when the display is open.
1–C0BLIH7	Notification Presentation	The Alarm Summary Display cannot be called up pre-filtered by Asset.
1–C2WFAMN	Notification Presentation	If quick shelving is disabled, when an alarm is selected on the alarm summary CPU usage for the Station window process may increase leading to an unresponsive alarm summary.
1–CKUGMFL	Notification Presentation	Script error is thrown when navigating to the Dynamic Alarm Suppression status display in Station and the summary of suppressed alarms will not be shown.
1–D17B3XN	Notification Presentation	No alarm help is shown when the Alarm Help faceplate is called up for a point.
1–CDU98F9	Notification Presentation Alm Tracker	Alarm Tracker disabled in Experion R511.3.
1–CZU5YHN	Notification Presentation Alm Tracker	On the alarm tracker when an alarm moves from the real time panel to the historical panel, the tag name of

PAR	Function	Description
		the alarm may be hidden for a short time.
1–CZURWFZ	Notification Presentation Alm Tracker	The alarm tracker can be incorrectly configured to have both the real time and historical period set to 5 mins which means there will be no historical area shown on the alarm tracker.
1–CZXHEVJ	Notification Presentation Alm Tracker	Attempting to acknowledge alarms in the alarm tracker as view only access level may not show an error message indicating why the acknowledgement was not applied.
1–CZS827T	Notification Presentation Alm Tracker	The "Most important alarm state out of view" tooltip on the alarm tracker may have missing alarm information text.
1–CK3OJNF	ODBC Data Exchange	Application error occurs randomly while exporting Experion tags through ODBC data exchange.
1–D4723Y3	ODBC Driver	Journal Only bit is not fetched properly for SCADA points, as ODBC Driver returns Integer parameter as Float with rounding.
1–CQ77KSB	OPC Data Client (Flexible)	After changing the description of an OPC Advance point, the new description may not be updated on console stations or other servers connected via DSA.
1–DBSQ2BN	OPC Alarm/Event Server	DynAMo may be unable to collect alarms or events from Experion due to invalid characters in the subcondition field of the alarm or event
1–D6J29FH	OPC Data Client (Flexible)	When the Experion OPC scan task is connected to an OPC Server that sends raw data values and uses the IEEEFPLB data format to translate the raw data, Experion shows an incorrect value for the parameter.

PAR	Function	Description
1–CHE00BR	OPC Data Client (Scan Task)	If an OPC connection using a redundant OPC channel fails due to a call that did not return from the OPC Server, the OPC channel may be restarted instead of failing over to the other link.
1–D1UKH7D	OPC Data Server	An OPC client connected to the Experion OPC Server is unable to browse parameters for a remote point where the item name and the tag name of the point are different.
1–CPZUKDB	Operational Applications	Unable to automatically trigger pipeline batch creation.
1–CO23RG7	Operator Security	Slow authentication against the domain controller for one user can slow down authentication for other users.
1–D5QGRN1	Operator Security	Some operator security functionality can get application error or become unresponsive due to bad input.
1–CBLMBHH	Reports	The OPC DA Server Usage report may fail if there are a large number of OPC items being read from the Experion OPC Server.
1–CUCUZ4D	Reports	The ODBC Server process memory usage can grow over time if many Experion Reports are run.
1–C8YVT1B	Scanning Subsystem	On changing the Unreasonable Value Alarm Priority of a point, the priority of any existing Unreasonable Value Alarm is not changed.
1–D9Y6UMH	Scanning Subsystem	If you combine alarm delays with non-consecutive bits then alarming does not work.
1–CIJHUXH	Scanning Subsystem	Support for 3 output (OP) bits in the SCADA Status Point.
1–CST2ANH	Scanning Subsystem	Rate of Change Alarms are occasionally not raised on SCADA points as expected.

PAR	Function	Description
1–CVVRXW9	Scanning Subsystem	If the A3 and A4 parameters for an analog point are set to the alarm limit parameters and are read from a different point parameter, an excessive number of events may be seen in the Event Summary.
1–BLQS0FH	Scanning Subsystem	ControlEdge RTU channels that are unconfigured are displayed as being in error.
1–BXPEOZJ	Server Scripting	In the Periodic Server Script editor, the script engine assigned to a script is shown as the script engine number instead of the script engine name.
1–D372ZAB	Server Scripting	In rare scenarios, Server scripting events may not fire after a server switchover.
1–DCIKUBJ	Service Framework	Quick Builder database does not get replicated thus changes done on previous primary server are lost in new primary server after server switchover.
1–D9IYBJH	System Libraries	Deviation High /Low Alarm Behavior is incorrect when Point SP changes.
1–CRO24WR	Timer Exec. (wdt, timer)	If an Experion system has 20+ disconnected OPC channels unwanted switchovers can occur.
1–D8QNURJ	TPS Interface	Loading EHPM points from Control Builder may fail if the TPS system interface on the ESVT has lost connection to the TPN Server.
1–D8PZ72V	TPS Interface	Loading a new EHPM point from Control Builder with the option "Change state to Post-Load State after load" checked may fail with "SDA Unknown error".
1–CQIO6XR	TPS Interface	Occasionally after starting Control Builder, the monitoring view may show the EHPM controller and its points in red and the module properties dialog for these items may

PAR	Function	Description
		show all values in error.
1-DCLRNZP	TPS Interface	Errors may be seen on the chart view of EHPM AI channels from the monitoring tree in Control Builder.
1-D3AX03J	TPS Interface	PHD may show blank or incorrect engineering units for TPS points.
1-DERF273	TPS Interface	When loading an ELCN point in Control Builder and the inactivate/activate option is selected, the load of the point may fail if the ELCN point has not previously had the monitoring form opened in Control Builder.
1-DER4VFH	TPS Interface	Unable to load PMIO IOMs from Control Builder if the number of CDA points has reached its licensed limit.
1-DF896HX	TPS Interface	Importing TPS points into Control Builder using either Automatic Point Import or ELCN Database Import Utility and downloading to Experion may remove the history configuration for the TPS points.
1-BRNJOO3	Station Application Framework	Alphanumeric configured to display Hexadecimal values may fail to show correct value.
1-CA8K4AH	Station Application Framework	Station resource usage may increase if an issue occurs with display scripting, which may eventually cause the application to stop responding.
1-CC4J1SP	Station Application Framework	If a Station window becomes unresponsive it may affect data entry and display call-up of other Station windows.
1-CI89M8T	Station Application Framework	Station may become temporarily unresponsive when OEP/IKB LED status changes during periods of high alarm activity.
1-DB9EOUF	Station Connection Dialog	Connect dialog will not let you enter a 3-digit station number.

PAR	Function	Description
1-CB557Z1	Station switchover	Faceplates get loaded in different placeholders after a switchover.
1-BZYJYAN	Station Keyboard Support	Setting to expose font size in relegendable keys needs to be added to on-screen OEP keyboard.
1-CP2NJO1	Station Pop-ups/Faceplates	Auto-select may occasionally fail for the faceplate on Operator Touch Panel.
1-D6DEY3D	Station Printing	Custom Print Preview window is being caught by SafeView.
1-D0Q5FTN	Station Scripting	On Page Complete event may not fire if there are large tables, or many table objects in the display.
1-CO6PJQJ	Station Selection	Occasionally faceplate may not select the most appropriate parameter during repeated call-ups.
1-CU7ZNAJ	Station Keyboard Support	Prolonged rapid F4 key taps may cause Station to become unresponsive when tap/raise lower is enabled.
1-AQAKSWF	Station Notification Presentation	Process graphics that contain an activity table may show an error when the page is reloaded.
1-CTNKKXJ	Station Popups/Faceplates	Performing a copy paste into an equipment trend or a trend in a popup window causes the name to be pasted twice.
1-CQJZNH9	Station Selection	Script Errors and other events can cause station windows to be disabled and become unresponsive to user input.
1-4M64OMT	SafeView	Global focus attribute errors with the SafeView Graphical editor
1-8HNFKD5	SafeView	SafeView Text Editor program will not open when called from SafeView Graphical Editor.
1-9QLENXJ	SafeView	SafeView graphical editor removes 'closable = yes;' line from .WDL file when Closable box is checked.

PAR	Function	Description
1–ACEXSQN	SafeView	SafeView Graphical Editor – Window Specification Dialog group box is misaligned.
1–AEGHOUF	SafeView	When recalled for the third time, a minimized window such as the alarm summary page, appears overlapped.
1–AYN94AB	SafeView	Station Command Window not Always-On-Top when it is configured as such in SafeView.
1–AYQ3ZC1	SafeView	Station displays may invoke to the wrong screen when rapidly changing focus after invocation.
1–B3V3UY9	SafeView	App Find does not work well when using SafeView borderless windows.
1–B7O72FZ	SafeView	SafeView Classic option causes issues with Excel, Adobe, such as save/open dialog.
1–BURYB99	SafeView	SafeView may get application error on Prior Display invocation, when command line is large.
1–CBG7AHD	SafeView	On switchover, not all existing displays are properly positioned – faceplates are lost.
1–9AYTVVR	SafeView	SafeView fails on Prior Display invocation (with extremely long command line strings).
1–71UW1YB	SafeView	SafeView's wsmcli exception causing Station failures.
1–BXQZ94X	SafeView	SafeView may cause Station to become unresponsive.
1–D6I9YKV	SafeView	SafeView workspace syntax should flag duplicate window names .
1–6HAR9VP	SafeView	When closing displays, there is a brief white window flashing just after window is closed.
1–CVEGQKR	SafeView	SafeView faceplate placeholder is resized to take up most of the screen.

PAR	Function	Description
1-CLXQA7R	SafeView	Windows 10 'Start' button at left of taskbar may become unresponsive in SafeView.
1-AD6CNHF	SafeView	RDP is not managed correctly by SafeView.
1-CL9SZ7T	SafeView	Alarm Shelving Dialog box is hidden behind always-on-top (e.g. mini-trend) pop-up in SafeView.
1-COGCWJV	SafeView	Display windows do not show X (Close) buttons on top right.
1-DBSHUJD	Point Control Scheduler	Page Reload Error appears whenever we try to change parameters on point control schedule, holiday and shift schedule pages.
1-DBRO7SB	Point Control Scheduler	Contract Hours 1 to 4 on shift schedule page do not auto adjust time into equal shift duration/length of the shift unlike system definitions.
1-CT3EOV3	Reports	When there is a large number of items subscribed from OPC clients, the Performance Statistics Report may remain in generating state and fail after an indeterminate time.
1-DCQZFSA	Reports	SOE reports report no entries whenever a point is entered in the POINT ID field.
1-D6OTUGN	HMIWeb Station	Unable to open duplicate faceplates across multiple monitors when opened using Request Task via script.
1-9FF4GZV	Honeywell Communications Interface	Post a network disruption, the Experion OPC server requires a restart for existing clients to reconnect.

8.2.5   Documentation

PAR	Function	Description
1–C2MC14N	Experion Batch	Operator's Guide is updated to include details of change in the way parameters that displayed in Batch messages.
1–B31SQVL	Asset permissions	Server and Client Configuration Guide is updated to provide more detail about assigning assets to an Operator or Station enable access.
1–BX5S0X5	Network–Equipment and Support	Error in Network Best Practices documentation ACL definition.

8.3 Resolved PARs in Experion R511.3

8.3.1 Installation and Migration

PAR	Function	Description
1-CL52LT1	IXP-Import Export	Major error not reported in Restore control strategy step during server migration.
1-CEPPY9V	INS-Experion Installer	Windows Update failed to check for updates with error 0x8024402C.
1-B5156MX	Installation-TPS and GUS	PCUS on HP Z620 with two (2) LCNP4e cards exhibit performance issue on second LCNP4e card.
1-CJEVF6J	Network-FTE	Upgrading R511.2 to R511.3 Rev10, windows shows undesirable behavior and FTE MUX error seen after reboot of server B.
1-BPMBKFH	On-Process Migration-Controller Migration	C300 Controller sync problem while migrating Off-Process with 20ms file.
1-B158KN3	On-Process Migration-Controller Migration	In Controller Migration Wizard (CMW), Low Level Analog Input module is shown in red color even though it is updated to latest firmware.
1-CCEUMSU	On-Process Migration-Controller Migration	FTEB module ver rev entry is not present for R410.9 HF12.
1-B0RQ6WJ	On-Process Migration-Upgrade Tool	Truncated display of Auto proceed window in UT tool.
1-BMZ21SH	On-Process Migration-Migration Readiness Tool	LOC on UOC On-Process Migration in presence of DLR ring network fault.
1-B3B31RP	On-Process Migration Tool	Truncated display of Auto proceed window in UT tool.

8.3.2   Common components

PAR	Function	Description
1–C14AINX	Honeywell Communications Interface	OPCHDA server becomes unresponsive after repeated requests for data.
1–523LRCB	Experion TPS Infrastructure	For TPS Board 0 Config, entering more than 15 characters caused the TPS Config Tool to lock up.
1–B8ZWIM5	Network–Equipment and Support	Addroute.exe is leaking handles (approx 6 handles/hr).
1–BR15CYL	Signon Manager	Smartcard reader password change is not available, if PIN is activated.
1–C8PP7P9	QVCS	QVCS property for states to disallow check outs.
1–BQ2X0KJ	QVCS For Displays	Fail to restore display repository database.

8.3.3   Controllers and Tools

PAR	Function	Description
1–BJANE4F	CAB–Runtime	ACE node shows undesirable behavior if CAB exception is thrown with null message.
1–C43KOK3	CCL	UGM Blocks does not generate alarm for the active inputs and timer does not start.
1–BZVJ7OV	CCL	NORSOK blocks do not get restored by snapshot in simulation mode.
1–BVZ5TIR	CDA–Server	pscdasrv shows undesirable behavior on Rx of corrupted packets.
1–BHF8C4B	CF – Control Function	initialization of FANOUT block cannot be disabled even parameter is off.
1–JD0T73	CF – Control Function	Digital Alarm Live values are not updating in station.

PAR	Function	Description
1-BN80B5R	CF – Control Function	Missing description in alarm summary for UOC CEE due to Interlock Block
1-BESI3DB	CF – Control Function	Missing supervisor operating authorization level for FLAG and NUMERIC blocks
1-B8YBYTB	CF – Control Function	Warning High Limit on MA block freeze in HIGH state
1-C2KE4EJ	CF – Control Function	Primary ACE undesirable behavior during ACE Cut-over process for specific CAB block which is Atomic.
1-BNXROX7	CF – Control Function	NORSOK block – More than one OFFNRM alarms causes issues for advance application.
1-CI2BJKJ*	CEUOC – Platform	UOC failed after freeze and switchover due to unresponsive secondary for more than 30 secs.
1-BRKX8L4	CEUOC – Platform	UOC continuously reports CEE overrun with 68.37% CPU free in CPU-1 core.
1-BTCPB1R*	Control Functions – Batch	50ms VEP vUOC CEE72101 shows application error unexpectedly.
1-B4AF6AP	Configuration Studio	QDB File Replication # 1 generates an Event every 5 minutes.
1-BOKI27J	Configuration Studio	User Defined Parameters gets deleted when making unsaved changes in UDPs and in PV Algo tab for block no. configuration.
1-49SLT9O	Control Builder	In Control Builder Enable Tree Monitoring option is not working.
1-BZ15RAH	Control Builder	Execution Environment Assignment is slow in R501
1-BLT8HC9	Control Builder	R510.2 Post-Migration issue, connections report export is now missing from Control Builder.

PAR	Function	Description
1–9QEJWAV	Control Builder	Automatic DST causes logon failure on Server B every 15 minutes.
1–BXDUESJ	Control Builder	Control Builder shows application error a number of times while comparing parameters for CM.
1–BWS921N	Control Builder	Yellow triangle not present when it should be and missing blocks and wires after CM load.
1–BBMTATI	Control Builder	During import of a User Defined Tag the modeattrref parameter is not propagating correctly.
1–AZ5N8A1	Control Builder	Control Module connection is missing for the IO Refer Module on the station display Control Builder–Change Parent.
1–B4Ethernet/IPDB	Control Builder–Bulk Build	Bulk Configuration Tools – Bulk Edit Parameters does not work with Entity Name or Item Name.
1–C8TGEF6	Control Builder–Bulk Build /Edit	Create Bulk Edit does not read /write the SCM/RCM parameter OP[1].SRCEXPR.
1–B9UA5K2	Control Builder–Chart	R510–Control Builder will get application error when doing general Control Builder operation in chart.
1–BT281CD	Control Builder–Chart	R510–Control Builder gets application error when doing general Control Builder operation in chart (1–B9UA5K2 continuation).
1–C5PJ6SL	Control Builder–Change Parent	Change parent of an instance between the parent User Defined Tag takes long time when in containment.
1–C2HCF8P	Control Builder–Change Parent	New function blocks that are added as part of a change parent do not inherent correct name.
1–C7DM6Z7	Control Builder–	96 IO Channel Support.

PAR	Function	Description
	Configuration Form	
1–C8DFBPU	Control Builder–Listview	Empty Value for various parameters in the Listview when CPM is checked into Qualification and Version Control System (QVCS).
1–BU46T8X	Control Builder–Load/Upload/Update	When we do an upload/update from UOC then control conformation is automatically checked in CMs.
1–B8YKL5R	Control Builder–Load/Upload/Update	SCAN resident server parameters as template defined creates yellow triangle after upload/update.
1–5TFXQ85	Control Builder–System Repository	System Repository slowness in LRPC calls resulted CDA DATA disconnects and LOV.
1–AGM0ZFX	Control Builder–Tree	Control Builder shows application error every time when closing after installing latest R500.2 SP4 and QB2.
1–CBMQUUQ	ControlEdge UOC–Platform	Application error on UOC detection code must ignore condition when the platform is shutting down.
1–BXSPWI9	Control Functions – Batch	Loss of Batch Event alarms keep arising for C200 after migrating into R510 Detail Displays.
1–BRV3BT9	Control Firewall	Modify UOC iptables configuration to avoid dropping TCP resets on CDA ports after switchover.
1–B4EAX3V	Detail Displays	In a faceplate the values for PV control time and PV control alarm are swapped.
1–BID8IZ3	EBM–Tools	Reverse expression parser removes block name from expression source string.
RELCN–2284	ELCN	Bridge Status display needs to show only local LCN's data and

PAR	Function	Description
		not remote system(s).
1–84W1C1Z	EHB_Translator	HSE Creator tool in Experion R500.1 media is not up to date.
1–BB3MJ1T	EHB_Translator	TD not applied to Z input on emulated auxiliary algorithm, and not updated on SP.
1–B5E2L21	EHB_Translator	HSE Creator Tool: In HSE_USER_IP_IOMAssignment sheet, not all "New_ChannelNumber" are assigned.
1–AXDER06	EHB_Translator	R501.2 HSE_USER_IP_IOMAssignment Issues, no dropdown option of "UIO_2" under IOMTYPE.
1–AXDEQYL	EHB_Translator	R501.2 HSE_USER_IP_IOMAssignment Issues, the "New_IOMname" is restricted to 16 characters.
1–CHWUGO5*	EtherNet/IP-CEE-EMBEDDED	EtherNet/IP device reload fails with error "IO Add Conn Failed" After Migration/Freeze and SW.
1–BOMO8KH	EtherNet/IP-CEE-EMBEDDED	Unit Operations Controller shows application error when EtherNet/IP is loaded with invalid slot number.
1–B8F1TB1	EtherNet/IP-CEE-EMBEDDED	EtherNet/IP IO Add Connection Fail error is displayed while EtherNet/IP device reload/load is performed.
1–BBXBUGM*	EtherNet/IP-COMMUNICATION	After freeze and switch over, the CLX User Defined Tag tags stop communication permanently C300-EtherNet/IP direct.
1–81VFC5T*	EtherNet/IP-COMMUNICATION	EtherNet/IP armor point IO devices disconnects momentarily on UOC switchover.
1–BKZ34HV	EtherNet/IP-Tools	Turck IO hart enabled templates does not allow to disable hart support in library.

PAR	Function	Description
1–BD67FLD	EtherNet/IP–Tools	EIM Download Error.
1–C6H7MED*	EIM–Platform	EIM loaded with EtherNet/IP image unexpectedly shows undesirable behavior during normal operations.
1–BE5W4YB	Fieldbus Interface Module–Series C	FIM8 UFC100–L2 module HWREV should be incremented.
1–BX3SLT1	IEC61850 interface	IED connection is not stable between Experion PKS and RTU RC500.
1–BVYJQTL	IEC61850_Tools	PKS R501.2 Unable to import SEL *.CID file into Control Builder.
1–AXF5Z3Z	I/O–Series C	UIO–1 run time hard failures FPGA error.
1–C8PP8CX	IXP–Import Export	Export UI to support selection lists.
1–C8XHI21	IXP–Import Export	Suppressing repeated (3–4) High Volume False Positive Errors in IXP.
1–BGG9OOL	PROFIBUS Gateway Module (PGM)	Turck 2.0.4 Extension not operating.
1–BS3DPUV*	Profibus Interface Modules	Primary PGM failed with 03A9 and switched over to the redundant partner during run time.
1–BXVDKLH	Software	Primary EAM in a redundant configuration fails every few days.
1–BPTPL8R*	UOC–SERIES–A	UOC freeze and switchover is failing with Series HART AI module loaded.
* Requires firmware to be updated.		

8.3.4   Servers and Stations

PAR	Function	Description
1–CCSYRV7	Experion Station-Faceplate	A script error message indicating Overflow error for AlarmLimitsTPS.js may occur.
1–4BDGJ8F	Experion Station-Faceplate	Standard R430 sysdtltpsdigcomp_ fp.htm does not focus OP (output) when the OP is selected from IKB/OEP.
1–C14L0I5	HMIWeb Display Builder	Bulk upgrade of embedded shape fails when huge number of displays are selected at one shot.
1–AVV5UKJ	HMIWeb Solution Pack	Issue with two context menus pulled up on top of each other on pop-up using solution pack shapes.
1–BKAAXXJ	HMIWeb Station	Rapid display invocations may result in orphaned display remaining unclosed in SafeView.
1–BX539WD	HMIWeb Station	Station with Operator Touch Panel enabled may stop responding during periods of high alarm activity and Group Policy updates or rapid page call-up.
1–BRK2QDR	HMIWeb Station	Station may inadvertently disconnect after increasing the KeepAliveTimout up to 30 seconds.
1–BQVKMK3	HMIWeb Station	Flex station not retaining last SafeView graphic after server switchover.
1–B43UJYZ	HMIWeb Station	Control buttons on the Touch Panel remain enabled when Native window is selected.
1–8ZXZ4UB	HMIWeb Station	Zoom to fit requires selection twice to maximize the screen.
1–BWSFP3R	HMIWeb Station – Collaboration Station	When invoking displays in SafeView, all windows blink.
1–BL0SY6B	HMIWeb Station – General	Station may stop responding and terminate with an error during extended use in situations where a network disruption occurs during

PAR	Function	Description
		operator actions.
1–B9RQ56R	HMIWeb Station – Trend	HSCStationWindows may terminate with an error when moving the reference line on a trend.
1–B310HSB	HMIWeb TPN Details	Maximizing and minimizing for many times a group window, the range reference of all tags shift down.
1–BE2EHU3	HMIWeb TPN Details	TPS TAG REGCTL POSPROP Experion Station Detail display issue for TPS point.
1–BYB3FMZ	Procedure Explorer	Procedure Explorer not able to draw a certain sequence structure.
1–CBFAI37	PROFINET Embedded	Profinet task does not start after the command 'become primary'.
1–87CC91R	QVCS	The QVCS version comparison report does not scroll when the navigate arrow is clicked.
1–CDA79OL	QVCS	QVCS comparison error for templates.
1–BFS2OKB	QVCS	QVCS does not work correctly when using a one-way trust with domain security.
1–BLSR725	ReferenceBlock-Tools	MAJOR ERROR: Block Type Migration Fail IXPtool.exe:bt_ixpcmn.cpp:1017: (IXP_ERDB) IOREFERENCES:AIREF.
1–AYFDKQ8	ReferenceBlock-Tools	AO reference blocks is accepting OP from more than one PID.
1–9EXKUOZ	SafeView	Negative MAXPOS y-position value causes window mis-positioning.
1–AEGHOUF	SafeView	When recall for the third time a minimized window such as alarm summary, that page appear overlapped.
1–BXQZ94X	SafeView	SafeView may cause Station to become unresponsive.
1–BURYB99	SafeView	SafeView may get application error on Prior Display invocation, when command line is large.

PAR	Function	Description
1–AYQ3ZC1	SafeView	Station displays may invoke to wrong screen when quickly changing focus after invocation.
1–CB6BHNB	Server – Alarm/event	Double clicking a system alarm from the Network tree on a console station shows the error "No details available".
1–BV8RGAL	Server – Alarm/event	When a column is filtered in the alarm summary, there is not enough indication that the column is filtered.
1–BU9SN5Z	Server – Alarm/event	The Station memory usage may increase while changing selection in activity table which could eventually lead to a non–responsive station.
1–BN6LKU5	Server – Alarm/event	Alarms may not be transferred to the backup server location when the servers in the primary server location are not synchronized.
1–AXCJEOT	Server – Alarm/event	Generating lots of TPS SOEs may cause the diagnostic log file to be filled with messages which may make it difficult to diagnose other non–related issues using the diagnostic log file.
1–BU0PORJ	Server – Console Station	In rare cases, values may stop updating after changing pages if displays have more than 500 remote parameters (either Distributed System Architecture (DSA) or Supervisory Control and Data Acquisition (SCADA) viewed on console station).
1–BRGAV5V	Server – Console Station	Station Access page of the operator gets disabled if "Permitted to edit collaboration station menus" option is enabled.
1–A4D7G2T	Server – Displays – General	Context menus and toolbars showing pictures with pink background.
1–BPXX05J	Server – DSA and Point Servers	UCM, RCM and SCM points on an R51x DSA publisher cannot be discovered from a DSA subscribing server on a pre–R51x release.
1–AZDUM2T	Server – DSA and	On rare occasions after migration, the

PAR	Function	Description
	Point Servers	CDA chart tab is blank on some console stations.
1–8MHRJLR	Server – Engineering	Template should have a mandatory display element with the name "Name" .
1–BCOEE0I	Server – History/trending	On rare occasions, a gap in a trend can occur when a history archive is read at the same time as it is created.
1–BPE936D	Server – Installation and Migration	System files version and date are various on several R501.4 nodes.
1–BXOJ1FI	Server – Open Platform Communication clients and servers	On an Open Platform Communication UA SCADA connection reconnect, values can stop updating if Open Platform Communication UA Server monitored items capacity is exceeded.
1–AZ168OH	Server – other or unknown	Quick Builder is not displaying equation of Algo 20 after point upload or server bckbld.
1–BXRIKHZ	Server – Scanning Subsystem	Status points with non-consecutive bits can occasionally show incorrect values.
1–BVYL8Q5	Server – TPS Integration	Server log flooding messages caused by built-in system displays.
1–BNPRZFZ	TPNServer	TPN Server repeatedly goes to failed state on primary ESVT. Same behavior observed on B.
1–AQHKXCX	TPNServer	Modes allowed on Experion station detail display are not being limited by the $MODESEL parameter.
1–5TXPTFP	TPNServer	$MODESEL parameter does not limit the allowed modes in Experion.
1–9FOG3BX	TPNServer	With change to summer time PC and TDC time are right but Experion Alarm and Events are 1 hour ahead.
1–BNPRZFZ	TPNServer	TPN Server repeatedly goes to failed state when certain string is exactly 42 chars.
1–A1QNENT	Experion TPS Infrastructure	When the ELCN System Management Data Servers (both ELCN Local Server and ELCN Remote Server) are

PAR	Function	Description
		configured as "Local Component" in the HCI configuration, these component entries are getting copied to all other nodes in the network.
1-913W9VV	Enhanced TPS Node	Enhanced TPS nodes are extremely sluggish as observed during emulated Disk Related operations.
1-9R6J23Z	Enhanced TPS Node	On a R501.1 ES-T node, the LCNP Status Applet shows card type as"K4LCN_8MW" for a LCNP4e2 type board.

8.4 Resolved PARs in Experion R511.2

8.4.1 Installation and Migration

PAR	Function	Description
1–B5M4KUJ	On–Process Migration Tool	Experion On–Process Migration not able to reach dual primary if batch activities in progress.

8.4.2 Common components

PAR	Function	Description
1–9L7N7TP	Network–FTE	PCDI communicating with SM report conn. Failure and data loss frequently with UOC.
1–5X96F9U	Signon Manager	New ACS Card Readers do not function with Multi–Factor Authentication or Signon Manager.

8.4.3 Controllers and Tools

PAR	Function	Description
1–BK81NTT	Bristol Babcock OpenBSI Interface	OpenBSI does not log invalid signals or inconsistent signal names.
1–B091WH1	Configuration Studio	Quick Builder fails to export 'A3Name' attribute for non–consecutive bit OP of a status point.
1–AIIE35D	Control Builder	PA is seen instead of SPARE, while, changing channel type setting of any assigned channel.
1–B4EIPDB	Control Builder–Bulk Build	Bulk Configuration Tools – Bulk Edit Parameters does not work with Entity Name or Item Name.
1–B0S6TON	Control Builder–Chart	Control Builder will get application error when printing the Control Modules to PDF.
1–B2IEAC9	Displays – Trend	System Group Trend missing the trend Legend information after migration.

PAR	Function	Description
1–6WOK7XT	EtherNet/IP–Tools	EtherNet/IP devices are communicating through EIM without valid license.
RELCNTN–1347	ELCN Appliance	Ethernet Input buffer loss in a Possibility of specific error condition resulting in Node Isolation.
RELCNTN–980	ELCN T–nodes	Difference in behavior of LCN and ELCN nodes while accessing Nil pointer.
1–AW5MEYT	GDA – Points	Generic Data Access Server can sometimes grow in memory and cause DSA or Console Station disconnects.
1–9VONJNH	Notification Management	For FSC or Safety Manager channels, CONNECT and READ timeout settings are not exported for the Redundant Port with a Port Type of RedundantLANVendor.
1–5OJ0H9R	PGM	Input Data Base Cycle Changed alarm reported for PGM.
1–B3Q3E0T	Configuration Studio	For FSC or Safety Manager channels, CONNECT and READ timeout settings are not exported for the Redundant Port with a Port Type of RedundantLANVendor.
1–AJFHYJ7	TPS Interface	On a system with no TPS connection, the system status tree shows an LCN branch in the tree.
1–ASFD89D	TPS Interface	Each time a TPS alarm is raised, Experion performs a single read for EUDESC parameter which may cause congestion issues on large systems.
1–AYW92JZ	TPS Interface	Points built to represent ELCN system management dashboard are being counted as licensed SCADA points which may prevent building of SCADA points.

8.4.4   Servers and Stations

PAR	Function	Description
1–REFW8P	Experion Station– GUS Display	Remote GUS display status in Server and client machine is red and blinking.
1–B83M7DH	Experion Station– Integrated Keyboard	New 2019 model of the IKB keyboard (USB–IKB 2.0) is not working after disconnecting and reconnecting to the same node.
1–AL5ED5N	HMIWeb Station	Incorrect value for SP on faceplate.
1–AJ881SR	HMIWeb Station	Toolbar directory (that is, STB file) in Station does not accept relative paths.
1–B4843KB	HMIWeb Station – Display Elements	Selected alphanumeric becomes blue background.
1–B8D7QAV	HMIWeb Station – Displays	Station detail display of custom data block shows incorrect value when configured as INT32 type.
1–B3TH8O8	HMIWeb Station – General	Web link with ? inside works from IE but not from EST Station
1–BC4KFQ3	HMIWeb Station – Operator Touch Panel	OTP link selection appears sluggish.
1–B3TH8NZ	HMIWeb Station – Operator Touch Panel	OEP switching to OTP even when fix for PAR 1–8R4BE9X is installed.
1–5HO4FVZ	HMIWeb Station – Trend	Current value and reference value disappear from the trend if the value exceeds 9 digits.
1–BEQEVK5	Redundancy – Server	An aborted On-Process Migration can leave flags set that then stops future synchronization attempts.
1–B6KYA7X	Station Limits Trend	When zooming in and out on the limit trend using the mouse wheel, a script error is seen in Station.
1–BG1I32P	Server – Alarm/ event	Event Log on Server switchover in BCC System incorrect.
1–B88UU4P	Server – Display Subsystem	DSPLY exe shows application error in EST which caused station LOV. Refer Description.

PAR	Function	Description
1–ACQIRWB	Server – Open Platform Communication clients and servers	Open Platform Communication report does not show the Open Platform Communication client name when SetClientName() is not called.
1–9ZLMSZL	Server – Batch Unit Timeline	Unit Timeline Now card empty and timeline bars do not appear if ICPP used to invoke batch Phases.
1–B220RW7	Server – Batch Unit Timeline	Unit Time Line shows 'connection lost' for longer than expected on C300 switchover.
1–B5PSZ89	Server – Open Platform Communication clients and servers	Where GDAQuality comes from for CEJ.
1–BL6NPRN	Server – SCADA Interfaces	Open Platform Communication Status point when using non consecutive bits stay inverse when after receiving bad quality data.
1–B3TC6GT	Server – Displays – SCADA Controllers	SCADA controllers status of remote DSA server are showing "UNKNOWN".
1–AIH09A7	Server – TPS Integration	Enhanced Universal control network (OUTIND=REVERSE issue).
1–B5LPVLB	Server – TPS Integration	TPS unit mapping becomes "Not Mapped" after the On–Process Migration to R501.2.
1–B5RCS7V	Server – TPS Integration	WDT 193 alarm, measures.exe unexpectedly terminating. UCNNW parameter returns '0'
1–B5549NT	Server – TPS Interface	Error encountered when downloading EHPM platform Blocks Server point validation fails.
1–AT47VT1	Server – Alarm/ event	Missing Unshelve Event during Unshelve of a RTN Shelved alarm.
1–B3LWBK1	Station Callouts	Callout in Group Trends not aligned with parameter.
1–A1SKL8N	Station Collaboration	Restrict editing and exiting of Collaboration Station.
1–B7KW8X5	Station Notification	If the Alarm summary or a process

PAR	Function	Description
	Presentation	graphic containing an alarm table is left open for a number of days, the Station Window process may consume a large amount of system memory causing the display to close.
1–APEZVG5	Station Operator Touch Panel	Improvements to on screen OEP touch behavior.
1–AV9MHEW	Station Operator Touch Panel	Radio buttons on sysdtlflaga_fp and sysdtldevctla_fp faceplates have poor visibility when shown in dark theme.

8.4.5   Documentation

PAR	Function	Description
1–A6BLJG3	UTC Media	XPS files delivered with R510 UTC media have few formatting issues.
1–AXU7AYX	PDF Collection	CM display version number after import CM that had 'Enable Basic Version control' checkbox checked.
1–AVQMZ6V	Software Configuration Management – Phoenix	Mismatch in the ERDB Build version for R501.4 501.1–39.225 –> 501.1–39.229.
1–9990QN5	Scenario– Based EMUG	CTools fails to open from base release server A when server B is in migrated state.
1–8Q4II19	Software Install and Upgrade Guide	Standard documentation did not seem to include workflow for classic ESVT node to ELCN migration.

8.5   Resolved PARs in Experion R511.1

8.5.1   Installation and Migration

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.
1–447BR3F	INS-Experion Installer	[IV]Experion_Update_Manager.exe has stopped working message appeared during cleanR431.2 R3 installation.
1–AAIXS1L	On-Process Migration Tool	Honeywell engineering Tools installation fails due to impossibility to connect to ERDB.

8.5.2   Common components

PAR	Function	Description
1–43HBRXV	Experion TPS Infrastructure	[PCUS] After upgrading PCUS to R431.2, LCN addresses become 0.
1–5HLSY0B	Software Configuration Management	[PKG–QT] STAC–FDM package missing from Install DVD–2. Found during C5 TP2 PKG QT.
1–9217LHT	System Management	Cannot connect to HCI–based Open Platform Communication servers on Experion R510 B17.
1–A1NNRN9	Table View	Single Step and Safe Step Button not available while using Table view .

8.5.3   Controllers and Tools

PAR	Function	Description
1–B54ANSF	CEUOC-Platform	[UOC] HSR/PRP LAN ID Error Soft Failure must clear automatically when they stop.
1–AVPKAUR	CF-Control Function	C300 Greater than or Equal Block Output Error.
1–AXGO70D	CF-Control Function	PIDER block in Man mode, after

PAR	Function	Description
		OP windup recovered but remain ARWOP status fails to return to normal.
1–BDYBLVP	Checkpoint	Broken C300 peer to peer connections are not detected by the Snapview tool in R5xx.
1–BH9J109	CEUOC–Platform	Function blocks and I/O executing in UOC freeze for 6 Seconds during UOC switchover.
1–LH4MXJ	Control Builder	Phase Block with empty library name is getting created and resulting in IXP errors on migration to R410.
1–AXCR12B	Control Builder	The CM/SCM opening in Control Builder takes almost 10sec in both project and monitoring side.
1–AY7BUVN	Control Builder	Changing the position of CM1 within the containing CM (CM2) causes a delta flag on CM1.
1–B2EGSOB	Control Builder	MAP block accessing PP show incorrect cross–references.
1–B60WMF5	Control Builder	User Defined Tag PP has changed and imported to another server but has connection error.
1–B7HFTJG	Control Builder	When importing instances from a User Defined Tag which contains a SCM, the SCMs do not get assigned CEE.
1–B7LLQ8Z	Control Builder	CM open faster on R430.4 after Migration to R501.2 It is taking more than 1 hr open the chart.
1–B9UA5K2	Control Builder–Chart	R510–Control Builder will get application error when doing general Control Builder operation in chart.
1–BA5YL3H	Control Builder–Chart	Display with procops shapes causes freezes when sequence is in HOLD state.

PAR	Function	Description
1-6ASKHK5	Control Builder-Configuration Form	[SFT] Control Builder/Station becomes non-responsive while navigating to DO status tab in Monitoring View.
1-B29LIUP	Control Builder-Load/Upload/Update	Unspecific (fatal) download error 10139, ERR Load FAILED.
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.
1-5U2NF9X	Configuration Studio	PV history assignment corrupted when uploading or importing into Quick Builder.
1-B1V6ZJX	Configuration Studio	Quick builder throws "unable to parse project" error when reading controller integration files.
1-B5OQXMZ	CTools	EHPM gets bricked if a Control Builder Block exists for EHPM and if we upgrade firmware.
1-A7KFAVD	Detail Displays	Experion R510.1 Flaga_fp shows strange numerical object.
1-AAJGZFB	Dialogs	Quick builder filter on points shows incorrect data when a concurrent user downloads / uploads / Adds points.
1-BO6241H	Detail Displays	Under certain station themes, faceplate elements have poor visibility on Operator Touch Panel.
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 and PE after console station or non-redundant server reboot

PAR	Function	Description
1-PK1QJ5	EBM-Controller	CR stays in "Acquiring Resource" after issuing START to it after Circular OPM of C300.
1-B0VNNVR	EHPM_Control	LOC EHPM COMM shows undesirable behavior if bad point type.
1-96E4ICX	EtherNet/IP-CEE-EMBEDDED	Experion R500.2 C300 on-process migration failure occurs when using (EtherNet/IP Driver) PF755 Channel in CM.
1-B7HB31L	EtherNet/IP-Tools	Cannot download a Generic EtherNet/IP device when the generic device is checked in.
1-B83ACR3	EtherNet/IP-Tools	C300 EIM ControlLogix User Defined Tag do not accept –32768 as input for a 16-bit integer.
1-BB8U4XC	EtherNet/IP-Tools	R510.1 C300 EIM ControlLogix User Defined Tag do not accept –32768 as input SCALAR User Defined Tag.
1-BD67FLD	EtherNet/IP-Tools	EIM Download Error.
RELCNTN-1347	ELCN	Ethernet Input buffer loss in a Possibility of specific error condition resulting in Node Isolation.
RELCNTN-980	ELCN	Difference in behavior of LCN and ELCN nodes while accessing Nil pointer.
RELCNTN-816	ELCN Appliance	ELCN Appliance ELCN EHB block cannot be deleted from Project.
RELCNTN-960	ELCN Appliance	ELCN Appliance Detail display for ELCNNODE, hide "UCN#" if not node.
RELCNTN-927	ELCN Appliance	A hybrid combination of Classic EHB pair and ELCNEHB pair cannot be configured in an "Added HG" configuration. You should either have both node pairs as Classic EHB or ELCN-EHB in an

PAR	Function	Description
		"Added HG".
RELCNTN–973	ELCN Appliance	ELCN Appliance EHB node number showing wrong values at monitoring side.
RELCNTN–987	ELCN Appliance	ELCN Appliance Non–redundant ELCN-EHB configured on the VEP shows application error during stable run.
RELCNTN–489	ELCN T–Node	LCNP status shows OK even after killing LCNPemulator.exe
RELCNTN–976	ELCN T–Node	[Stability] Few of the nodes in LSTF were showing LOCAL in CLOKSTAT.
RELCNTN–991	ELCN T–Node	LCNP version of EST cannot access ELCN STS Dashboard data like an ELCN version.
1–B10V7FB	ELCN T–Node	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–B5JBPC3	Experion TPS Integration	ELCN T Nodes (510.2 only) do not autoload when rebooting machine and LCNP stuck in 00–Not Config (Subsystem: Experion TPS Integration).
RELCNTN–623	ELCN System Management	On the Experion System Management Dashboard, the NIM faceplate shows the Device Checkpoint parameter's value incorrectly and also changing the value from the faceplate may not have any impact on the parameter.
1–AXC97KF	ELCN System Management	Viewing the LCN Status dashboard on an LCNP4 based ES-T (non–ELCN) shows all the dashboard shapes with bad status.
1–B2FXYGZ	ELCN System Management	History collection enable/disable option is not available for HM nodes on the detail display.

PAR	Function	Description
1–B2FGFK7	ELCN System Management	Redundant Node Primary FTE Index may show incorrectly in status pane for redundant LCN Nodes.
1–89KASZV	Fieldbus Library Manager	Smartline ST800FF Dev's – 4 – issue importing the DD files in Experion PKS R311.2 – Control Builder shows application error.
1–A29OLAP	IEC870 Interface	"IEC60870 Point Server" Service does not start automatically.
1–85YZ8I2	IEC870 Interface	IEC870 SQL database not migrated.
1–B0SBKC9	IEC61850 interface	IEC 61850 configuration file importing/loading take too much time.
1–3GAHYYS	I/O–Series C	Series C DO channels are not following default settings for initialization.
1–3I9OBL7	I/O–Series C	HART information is not getting updated for WIKA transmitters when connected to SCIO.
1–5S2EVPM	I/O–Series C	Series C AI module state changes from Run to Idle on its own.
1–9MCOB71	Modbus TCP Infrastructure	C300 PCDI needs to handle split packets response from the Modbus TCP device.
1–479NUAX	Profibus Interface Modules	After PGM RRR Siemens ET200M DSB going to configured state.
1–A59ZM2D	Profibus Interface Modules	In DPV1 tab, "DPV1SLOTNUM" entry should support 0–254 as per Profibus standard.
1–1275R3B	Profibus Interface Modules	After Network disconnect and connect all the output channel status went to Bad_NonSpecific.
1–9V9Y7CT	Profibus Interface Modules	PB links, DSB and PBHIOMB are grayed out after enable/Disable sync and Switchover test.
1–3UBSPIL	PGM	PGM On–Process Migration fails if

PAR	Function	Description
		NVS failure exists. Compact NVS prior to On-Process Migration.
1–9FVYEUD	ReferenceBlock-Tools	Change Parent does not work for a standard CM User Defined Tag.
1–B63DFTT	ReferenceBlock-Tools	I/O channel simulation is not working in R510.1.
1–9CGRENF	SCM-Sequential Control Module	LOC Having a controller issue the SCM is not working properly due to peer memory issue.
1–B539NQ9	SCM-Sequential Control Module	An Alias of string parameter in SCM shows communication error.
1–8ZCFEI9	Standard Series C- I/O Module	Low Level Analog Input module channels value goes to NaN during stable run when it connects over FOE.
1-AV9MHEW	Station Operator Touch Panel	Radio buttons on sysdtlflaga_fp and sysdtldevctla_fp faceplates have poor visibility when shown in dark theme.
1–BHAX3OJ	UEA	FM R110.8 is able to flash firmware on Primary UEA ELCN node when status threw an error In Control.

8.5.4   Servers and Stations

PAR	Function	Description
1–9SB90E7	Detail Displays	Detail display for NORSOK blocks in station give Stack overflow pop up message.
1–81OJKSL	HMIWeb Station	Alphanumeric with Enable Parameter Format does not work as expected.
1–9ZEOLSZ	HMIWeb Station	Metafile printing prints visible part of display only.
1-A1LNDJT	HMIWeb Station – Collaboration Station	Collaboration Station windows does not retain the position or size configured in previous session.
1–B6TVZ6D	HMIWeb Station –	Slow response time on Console

PAR	Function	Description
	General	Stations after migration to R510.1.
1-B85JIZF	HMIWeb TPN Details	Rapid display invocations of tabbed displays may lead to orphaned/non-closed displays (1-8WQVMLB).
1-BD5BCS1	Honeywell Communications Interface	Tags intermittently dropping comm between TDC Application node to Experion Server via Open Platform Communication Gateway.
1-9AYK3OB	Procedure Explorer	Pinch to Zoom is not implemented for OTP.
1-9S2B9FH	Qualification and Version Control System (QVCS)	Unable to delete UDT's which are in QVCS and gives the error as "The object is referenced by another object".
1-AEGHOUF	SafeView	When recall for the third time, a minimized window such as alarm summary, the page appears overlapped.
1-AYN94AB	SafeView	Station Command Window not Always-On-Top when configured as such in SafeView.
1-B31LYSX	SafeView	WDL items became case sensitive, thus causes non proper display closing and hence orphaned displays.
1-B3V3UY9	SafeView	AppFind does not work well when using SafeView borderless windows.
1-B7RA1M3	SafeView	SafeView titlebar visibility issues for Microsoft Apps such as MSPaint, Winword, Excel, Word.
1-BA5YL3Q	SafeView	SafeView classic mode suppresses SaveAs dialog for MS office apps.
1-BIZR9PV	SafeView	SafeView Orion icons may flash when moving mouse.
1-4CINRJ3	Server - Alarm/ event	Console Station re-alarming when a cleared alarm is unsolved.
1-7Q18HVF	Server - Alarm/ event	Analog Tags go to BAD PV at the same time.

PAR	Function	Description
1–7XG5D27	Server – Alarm/ event	The confirm input pin for message type control block in Control Builder not working.
1–B6VJER3	Server – Alarm/ event	Station.Application object is not detecting currentpointID from alarm summary.
1–B9SV97V	Server – Alarm/ event	Alarm Shelving Dialogue does not display the correct shelving reasons causing shelving failure.
1–BE3UUSZ	Server – Alarm/ event	SOR for Events not working on R500.1 HS System.
1–BN6LKU5	Server – Alarm/ event	Alarms may not be transferred to the BCC when the MCC servers are not synchronized.
1–A282BWV	Server – System Status	Station failure alarm for the flex station is not suppressed when system alarms are in suppressed mode.
1–A1LRR37	Server – Batch Unit Timeline	Procedures and Unit Procedures will not appear in Timeline if Operation invokes a Phase in a sub–asset.
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–BJKYWCX	Server – Console Station	The point detail display and associated display command not working from the event summary display.
1–A2CEOCH	Server – SCADA Interfaces	DNP3 communication fails for 15 mins and re-establish on Server switchover.
1–9X13M17	Server – SCADA Interfaces	Bristol Babcock Network Scan Task does not function .

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.
1–BCOEE0I	Server – History/trending	On rare occasions, a gap in a trend can occur when a history archive is read at the same time as it.
1–B5Z9YQL	Server – Installation and Migration	R501.2 SP3 Security tab display reverted the functionality of Minimum security level required.
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–B4VKOPB	Server – SCADA Interfaces	Moore APACS channel with more than 1 controller would fail to scan data properly.
1–B4VB5BN	Server – Scanning Subsystem	Algo 10 stops working after point download.

CHAPTER

9

SPECIAL CONSIDERATIONS

9.1   SafeView workspaces

Existing SafeView workspaces may require modification in order to load. This is because SafeView
has been modified to disallow certain sub-optimal workspace constructs, specifically:

- Windows or groups that share the same name with any other window or group in the same
workspace

- Any group that has only a single element, such as a single group or window inside the group

As of this release, SafeView will reject to load any workspace with either of these sub-optimal
constructs, noting the nature of the load/syntax error in a dialog box.

Before you load any existing SafeView workspaces after this upgrade, vet all of the operational
SafeView workspaces by either:

1. Load them into SafeView, 'textedit.exe' and perform a 'syntax check' operation, or runtime and make sure that there is no error dialog reported, followed by stopping of the SafeView workspace load.

   If it indicates an error, perform the following steps:

   - Rename any indicated duplicated window or group name to anything else.
   - Ungroup any indicated item that is alone in a group.
     - If that item is a group, simply remove the group/end group clause.
     - If that item is a window, do the same, but place any match expression for the group inside the window itself.

   - After you make the necessary changes, ensure, there is no longer, any error reported when loading or syntax-checking each modified workspace.

Following is the list of excluded applications in SafeView.

- Adobe Acrobat Reader
- LCNP Status window
- McAfee Antivirus
- Windows Calculator
- Windows Explorer
- TPS Configuration Utility
- Microsoft Command Prompt (CMD) window

Limitations enforced by SafeView (1-DOXCP6D):

- SafeView workspaces should not contain a group with only one element, such as around robin group with a single window in the group. Similarly, a group should not have its content as another single group. This was permitted in SafeView releases prior to R511.4.
- SafeView workspaces should not contain two items with identical names. A group or window should not contain identical name as any other group or window. This was permitted in SafeView releases prior to R511.4.

9.2 Microsoft Silverlight

Support for Microsoft Silverlight will end soon. Experion components that use Silverlight are being updated to use newer technologies. The following Experion component was using Silverlight and is temporarily disabled in the Experion R511.5 release.

- Experion Operational Application Displays

9.3 While migrating from pre-Experion R431 release, EHPM platform block "OWNINGENIM" parameter value is "0" (1-DGX6RU5)

If you have Experion-integrated EHPMs installed and you are migrating from a pre- Experion R431 release, then after the migration, enter a device index value into the parameter named "OWNINGENIM" in Control Builder. This parameter is on the "EUCN" tab of the EHPM Platform block, in the "Owning ENIM" section and it is fully entitled "Device Index". The Device Index you need to enter is the Device Index of the Owning ENIM (or ENB) of this EHPM.

9.4 Batch does not execute after UOC OPM when Batch is kept in pre-execution state before UOC migration (1-CQW3CKB)

If there are batches created prior to Controller migration and they are in pre-execution, then execution of these batches post migration will go to the 'Failed' state.

To overcome this issue, do the following:

1. Do not perform controller OPM while Batches created from Master are in pre-execution stage,

or

2. Remove pre-execution batch and create a new a batch after controller migration.

9.5 EIP HART channel load throws a data type error (1-CNFFS6A)

EIP HART channel load throws a data type error when the IOM and channel is reloaded after deleting it from the 'Monitoring' side. You can i gnore this error and continue with the load.

9.6 Migration/Upgrade of Database fails (1-CL5MDQR)

Migration/Upgrade of Database fails, if Lock Database for maintenance is ON and CDB is in QVCS, as shown in the following sequence:

1. Configure Custom Data Block in R510.1 and assign QVCS to it.

2. Use "Lock DB for maintenance" from DBAdmin Tool.

3. Perform OPM to R511.2 observe the major error when PatchDB run for patch 206.

To overcome this issue, you can terminate the Migration Tool and roll back the servers and unlock the Database from DBAdmin Tool and perform OPM.

9.7 Application Module points built from Control Builder cannot be activated or inactivated (RELCNTN-6168)

A pop-up appears when you try to activate or inactivate a newly created AM point from Control Builder. AM Points built from Control Builder cannot be activated or inactivated using the Activate or Inactivate options. It always results in an "SDA Access Denied" error. But the AM Points built from Control Builder can be activated or inactivated using Native Window Point Detail Displays or HMI Station Detail Displays.

9.8 EHPM parameter "HPMNODENO" value changes to "0" in Control Builder after migration of Server B from R43x to R5xx release (1-DTTDXVI)

In Control Builder, after a migration of Server B from R43x to R5xx release, the EHPM parameter "HPMNODENO" value changes to "0". This results in EHPM Detail Display showing incorrect values on an Experion Station.

DO NOT use Control Builder for EHPM engineering purposes until all existing Experion-integrated EHPMs are upgraded to the target EHPM firmware. You can instead use Native Window or Control Builder EHPM Platform Block to confirm operation of the controller after Server B migration until the EHPM firmware is upgraded.

9.9 Redundancy Tab is unavailable on Redundant C300PM Platform Block Detail Display in Station (REUCN-4166)

The Redundancy Tab is unavailable on the Redundant C300PM Platform Block Detail Display in Station. Use the Control Builder Platform block or Native Window to view or perform C300PM redundancy-related operations.

9.10 On-Process Migration of systems having peer-to-peer communication between ACE and C200/C200E

If the On-Process migrating system has Peer-to-Peer communication between ACE and C200/C200E, the following is the node migration sequence that must be followed during migration.

For On-Process Migration of systems having peer-to-peer communication between ACE and C200/C200E, perform the following procedure.

1. Migrate Server B.

2. Attain Dual Primary state.

3. Perform an off-process migration of ACE node by using the following procedure.

   a. Before starting ACE migration, rebuild checkpoint of ACE from Control Builder Monitoring Side and take a checkpoint of ACE from migrated Server B.

   b. Migrate ACE. The ACE appears in yellow color in Control Builder.

   c. Restore checkpoint of ACE, "Firmware Mismatch" warning message may appear, safely acknowledge the warning message and proceed. Now ACE and CEE appears in blue color after checkpoint restore.

   d. Perform a checkpoint rebuild of ACE. A new checkpoint file will be generated.

   e. Then Restore the checkpoint again.

   f. Perform a cold start of CEE and the ACE appears in green color.

   The ACE migration is complete.

4. Migrate Console Station.

5. Migrate Flex Station.

6. Migrate Server A.

9.11 Boot/Recovery Firmware upgrade from UEA_100.1-11.0 to UEA_110.1-03.0 of an ELCN Node fails with an error (1-DWUOMNV)

If the Boot/Recovery Firmware upgrade from UEA_100.1-11.0 to UEA_110.1-03.0 of an ELCN Node fails with the error "Send Command Failed: Error Response = (1017) Cannot Upgrade firmware. Module is on-control", perform the following:

1. Upgrade Primary and Backup ENIMs APP image to the latest version by following the standard on-process migration procedure.

2. When both Primary and Backup ENIMs are with the latest version APP image, shutdown the Backup ENIM from platform block and ensure it is in RDY state.

3. Flash UEA Recovery image to the Backup ENIM. Reboot the Backup ENIM using the Firmware Manager tool.

4. Load the Backup ENIM from Native Window once it shows PWR_ON.

5. Perform a failover of the Primary ENIM.

6. Shutdown the new Backup ENIM from platform block and ensure it is in RDY state.

7. Flash UEA Recovery image to the new Backup ENIM. Reboot the module using the Firmware Manager tool.

8. Reload the Backup ENIM from Native Window.

9.12 EHPM TPN soft failure parameters are currently not supported on Control Builder "Soft Failures" tab and Platform Block Detail Display (1–DWZ3HV8)

EHPM TPN soft failure parameters are currently not supported on Control Builder "Soft Failures" tab and Platform Block Detail Display.

Use Native Window to view and troubleshoot EHPM TPN soft failures.

9.13 CF9 firmware upgrade fails for a CF9 module with firmware revision PP, RR, TT and Hardware revision D or later (1–D7AEUQB)

In some cases, CF9 firmware upgrade fails for a CF9 module with firmware revision PP, RR, TT and Hardware revision D or later. The CF9 module remains at the existing firmware revision even after multiple firmware upgrade attempts and is fully operational even if the firmware upgrade fails.

 Note: The CF9 firmware upgrade to firmware revision UU is required only if the CF9 module is connected to any of the following modules at the downlink ports.

- C300 (CC-PCNT05 only, not required for CC-PCNT01 and CC-PCNT02)
- CN100 (CC-IION01)
- EHPM (51454192-150)

Power ON the CF9 module and retry upgrading the firmware in case it fails. Ensure that you try to upgrade the firmware at least five times to confirm that the module is not upgradeable. If the module fails to upgrade, then contact HPS Technical Support for an alternate upgrade procedure.

CHAPTER

10

KNOWN ISSUES

This chapter provides the information about the Experion issues and workarounds.

ATTENTION :

Experion R511.5 Software Change Notice reflects only Product Anomaly Reports (PARs) with priority severity position 2.1 and above.

10.1   Installation and Migration

PAR	Function	Description
1-D1R69DH	CDA-Control Data Access	**Error Indication:** ACE to C200/C200E peer-to-peer communication drops in interoperability scenario. **Description:** ACE to C200/C200E peer-to-peer communication drops in interoperability scenario, when the server is on the latest release and ACE is on base release and the ACE gets re-started. **Recovery:** None. **Workaround:** See Section 9.10 "On-Process Migration of systems having peer-to-peer communication between ACE and C200/C200E".
1-DIMLNJF	CDA-Control Data Access	**Error Indication:** ACE peer responder connections are not getting established after ACE strategies are loaded from Control Builder Project Side to Monitoring Side. **Description:** ACE responder connections with other controllers will be lost after upgrading to ACE Node to R511.5 and restoring the ACE checkpoint. **Recovery:** Same as workaround. **Workaround:** Perform switchover on the initiator controllers (C300, UOC). After this ACE responder connection will be established. If the above workaround does not resolve the issue or if the initiator controller is non-redundant, then perform the following: 1. Reload both peer-to-peer initiator strategy (loaded on the initiator controller) and responder strategy (loaded in ACE) 2. After reload ensure that the peer communication is established for

PAR	Function	Description
		all peer-to-peer strategies between that controller and ACE.
		3. Repeat steps 1 and 2 for all other initiator controllers (For example, C300,UOC, and so on.)
		Preventive steps:
		Before starting the R511.5 upgrade process on ACE node, follow the below steps :
		1. Go to Services control panel.
		2. Stop and disable Experion PKS GCL Name Service.
		3. Perform R511.5 upgrade process on ACE node.
		4. Enable Experion PKS GCL Name service.
1-DTTDXVI	EHPM	**Error Indication:** After migration of Server B from R43x to R5xx release, the EHPM parameter "HPMNODENO" value changes to "0", as shown in Control Builder and the detail display of the associated EPHM.
		Description: In Control Builder, after a migration of Server B from R43x to R5xx release, the EHPM parameter "HPMNODENO" value changes to "0". While the HPMNODENO value is "0", the EHPM detail display will not present values retrieved from the EHPM box point, such as the EHPM Control and Communication CPU values.
		Recovery: None, until the migration, including EHPM firmware upgrade, been completed.
		Workaround: DO NOT use the Control Builder for EHPM engineering purposes, nor the EHPM detail display for control purposes, during Experion

PAR	Function	Description
		migration until all existing Experion-integrated EHPMs are upgraded to the target EHPM firmware. Instead use Native Window or Control Builder EHPM Platform Block to confirm operation of the controller after Server B migration until the EHPM firmware is upgraded.
1-AY845Z8	ELCN-TNode	**Error Indication:** A pop-up message "ELCN remote OPC server stopped working" appears while migrating EST. **Description:** While migrating ELCN EST to R511.x/R520.x, the following pop-up message appears " Experion ELCN Remote OPC server stopped working" at the "ELCN Node" step and on acknowledgment, the following message appears "Experion ELCN Remote OPC server stopped working". **Recovery:** Ignore the messages. No actions are required. **Workaround:** None.
1-DU7T5Z7	ELCN-TNode	**Error Indication:** Invalid File Extension "FILENAME.EXT". **Description:** Honeywell FileTransfer utility does not support file copy operation and displays a message "Invalid File Extension FILENAME.EXT" on a migrated TPS node. **Recovery:** Open "Configuration Utility" Application and navigate to **Configure** tab, select **File Transfer** and click **OK** initially after the migration is completed. **Workaround:** Open "Configuration Utility" Application and navigate to **Configure** tab, select **File Transfer** and click **OK** initially after the migration is completed.

PAR	Function	Description
1-BQOTME0	INS-Experion Installer	**Error Indication:** Upgrade of R511.2 on ESVT takes longer time than usual and gets stuck at Disabling SMBv1 protocol step. **Description:** While upgrading from R511.1 to R511.x, it gets stuck at the "Disabling SMBv1 protocol" step for few hours. **Recovery:** None. **Workaround:** When the installation gets stuck at disabling SMBv1 step, then you must perform the following: 1. Stop the Experion Update Manager task from the Task Manager. 2. Reboot the system. 3. Restart the installation using **supportsoftware.exe**.
1-BL7UXDV	IEC61850_Tools	**Error Indication:** Block type import failed for the IEC 61850 Logical node (IELNODE) templates of specific vendor device when instances of the specific IELNODE exist. The Logical nodes affected are FLTMSTA0_E2_33_ LIB1 and FLTMSTA0_F_36_LIB1 which belong to the devices ABB REF615_LD0 and ABB REF620A_LD0 respectively. **Description:** With the existence of above mentioned IELNODE instances in the database, migrating to any newer releases causes database migration failure with the following error message, "EXPKS_E_ERR_CL_ DUPL_PARAMCODE (4L .101.9051) Not allowed to change Parameter code of the Control execution environment. loadable Parameter". **Recovery:** None. **Workaround:** Export the instances of

PAR	Function	Description
		ABB REF615 and ABB REF620A device instances along with corresponding IELNODEs and delete the configuration from monitoring and project then perform migration. Once migration is successful, the exported strategy instances can be imported back and loaded.
1-B306D7V	Missing/incorrect information	**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 may fail with "Failed to construct relative path error." due to the presence of Control Edge PLC points in the controller. **Recovery:** Contact TAC before you start the Server migration. **Workaround:** None.
1-D46EPNL	OPM-Upgrade Tool	**Error Indication:** During migration on Experion ServerB node, the "Restore Control Strategies" step fails with an error "There is not enough space on the disk". **Description:** Due to insufficient disk space the migration fails. **Recovery:** 1. Acknowledge the error and exit migration. 2. Review the hard disk and delete unwanted files to create free space. 3. Few database files are backed up during migration. These files are found at C:\Program data\Honeywell\Experion PKS\PatchDB*.bak files. These files can be deleted to create free

PAR	Function	Description
		disk space. 4. Resume the migration. **Workaround:** Same as recovery.
1-B66VU9X	Profit Loop Assistant	**Error Indication:** Issue observed in redundant server node. **Description:** Error appears while migrating from R500.2 to R511.5 during the "Restore ProfitLoop Data". **Recovery:** The error will not occur in 'With OS' migrations. So, proceed with "with OS" migration. **Workaround:** Safely acknowledge the error by clicking OK button on the error pop-up and proceed further with the migration.
1-B37FK6L	QVCS For Displays	**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 Label operation, this issue is encountered. **Recovery:** Click Cancel to navigate to the QVCS Query window. **Workaround:** Retry the Apply Label operation again.
1-DEGSVNV	Server – Installation and Migration	**Error Indication:** GSDML Catalogue file replication is not available in R511.5 migrated servers. **Description:** The entry of GSDML file replication is not seen in migrated servers after configuring Profinet modules under UOC and EIM (imported gsdml catalog files) after server migration to R511.5.

PAR	Function	Description
		Recovery: None.
		Workaround: Follow step 10 in section Post-installation tasks (Installing the point release on a redundant server) and step 6 in section Post-installation tasks (Installing the point release on a non-redundant server node) for customers migrating from previous release to R511.5.
RELCNTN-6146	UET – Import Utility	**Error Indication:** Auto-Import of an EHPM does not import channels of an AO IOP having a point name which is also a reserved word (template name) in Control Builder.
		Description: If Channel name or Point name that is similar to the ERDB template names is used, then the Auto-Import operation of an EHPM will not import the channels of that AO IOP. For the list of ERDB template names (specific to EHPM), please see the section "Importing TPN points into ERDB" in the *Experion LCN Engineering Operations Guide*.
		Recovery: None.
		Workaround: Use Native Window for Engineering operations for such points.

10.2   Common components

PAR	Function	Description
1-B85NX6P	CEP-Network-FTE	**Error Indication:** All vUOCs are losing communication with Server resulting in Loss of Control during T2 loop test. **Description:** All vUOCs are losing communication with Server resulting in Loss of Control during T2 loop test. **Recovery:** Return switch to normal service. **Workaround:** None.
1-DNFTNGH	Network-Equipment and Support	**Error Indication:** Safety Manager read/write failures, Switch log errors related to trunk ports, and CF9 ports shutting down due to multiple MAC detection. **Description:** Safety Manager ECI reported Connection timeout with Servers and Consoles with green switches powered down and loops introduced into the system. **Recovery:** Remove all the loops introduced in the Network. **Workaround:** Ensure that the cables are correct before connecting. Avoid loops especially with CF9s and trunked ports. Avoid adding new Network connections while faults exist in the Network.
1-B7O72FZ	SafeView	**Error Indication:** SafeView control buttons do not appear correctly in Office applications such as Word and Excel. **Description:** Office applications cannot be managed correctly in SafeView when the Classic Theme is configured. **Recovery:** Do not use Classic Theme in SafeView, if you intend to manage Office applications using SafeView. **Workaround:** None.
1-BYPPU0B	SafeView	**Error Indication:** In focus-based workspaces, a display may not be managed in the correct place holder.

PAR	Function	Description
		Description: When you want to load many displays quickly in a focus–based workspace, a display may not be managed in the expected placeholder.
		Recovery: Load the display again.
		Workaround: The fix for the issue is available in R511.5 SP1 HP1.
1–DGUQR77	SafeView	**Error Indication:** In SafeView with Station tab displays in use, Native Window or other applications fail to appear if managed in windows used by Station tab-windows.
		Description: In SafeView with Station tab displays configured, replacing a Station tab display with a non–Station display does not succeed. For example, invoking Native Window into a Station tab-window display not only closes all the Station displays in that window, but the Native Window is not invoked successfully.
		Recovery: Modify and reload SafeView workspace so as to avoid using a "tabwindow = yes" window for non–Station displays.
		Workaround: Be sure in any SafeView workspace in which the attribute "tabwindow = yes;" is provided, that ONLY Station displays are included in the match expression. Do not attempt to match non–Station applications, such as Native Window, GUS displays, or notepad++, and so on. That is, do not include non–Station displays in the matching logic for any displays with "tabwindow = yes;" associated with that window-specification in the SafeView workspace.
1–4T1DB5N	Signon Manager	**Error Indication:** Sign–on Manager does not provide correct access.
		Description: Sign–on 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.

PAR	Function	Description
		Workaround: If the PC Universal Station is to be used locally, then it is to be used locally only; if the PCUS is to be used remotely, then it is to be used remotely only. Setting up a PCUS to be used both locally and remotely is not currently supported.
1-BQ18KJM	Standard Series C IO Modules	**Error Indication:** IOLINK channel A and channel B errors occur. **Description:** Secondary AOH module generates InvAlert I/O link error which disables periodic swap in long run. **Recovery:** Configure the AOH module as Non-redundant configuration or power-off the secondary AOH. **Workaround:** Configure the AOH module as Non-redundant configuration.
1-DPHLGAL	System Management	**Error Indication:** None. **Description:** Switch Detail display from Station does not fetch switch details and shows blank after migration. **Recovery:** From Configuration Studio, perform the Network Configuration load to server. **Workaround:** None.
1-DJ8E0QL	System Management	**Error Indication:** Interface A SILENT alarm from C300, FTEB,Console node does not RTN after Uplink Cable fault test. **Description:** Post stability of R511.4 in BLR PCT SYS1 during various fault test in System, observed that on performing Uplink Cable Fault between C1SPY1 and L2Y1 Switch, nodes connected to C1SPY1 switch reports Interface A SILENT as expected. But on recovery some of these alarms from Windows and Embedded nodes do not get RTNed. **Recovery:** None. **Workaround:** Perform Server Wide Alarm Disable/Enable to clear alarms from System Alarm Summary Page which was already returned.

10.3 Controllers and Tools

PAR	Function	Description
REUCN-2536	C300PM-controller	**Error Indication:** When a Secondary C300PM which is having the same Device Index as either its Primary C300PM or owning primary ENIM is connected and powered on, periodic loss of view is observed in HMIWeb displays and periodic break is observed in communication. **Description:** When a Secondary C300PM which is having the same Device Index as either its Primary C300PM or owning primary ENIM is connected and powered ON, frequent failure and recovery of peer-to-peer communication. The supervisory control between AM and C300PM stops and all the secondary PIDs running in C300PM drops to MAN mode. **Recovery:** None. **Workaround:** Update the Device Index of the Secondary C300PM to a unique value and re-connect it.
REUCN-1473	C300PM-controller	**Error Indication:** In HPM REGPV point with PVALGID=CALCULTR and CALEXP = EXP (P1) configuration, when the value of P1 is greater than or equal to '89', then the value of parameter REGPV.PV is '1' in EHPM and 'BADVALUE' in C300PM. **Description:** In HPM REGPV point with PVALGID=CALCULTR and CALEXP = EXP (P1) configuration, when the value of P1 is greater than or equal to '89', then the value of parameter REGPV.PV is '1' in EHPM and 'BADVALUE' in C300PM. **Recovery:** None. **Workaround:** None.
REUCN-3073	C300PM-controller	**Error Indication:** Non-redundant C300PM controller icon is appearing in Control Builder Monitoring tree for redundant

PAR	Function	Description
		C300PM controllers while C300PM Switchover is in progress.
		Description: For a redundant C300PM controller, while the Switchover operation from Primary C300PM controller to Backup C300PM controller is in progress, the non-redundant C300PM controller icon is displayed in the Control Builder Monitoring tree instead of redundant C300PM controller icon. Once the C300PM synchronization is completed, the correct icon appears.
		Recovery: None.
		Workaround: This issue can be safely ignored.
REUCN-3917	C300PM-controller	**Error Indication:** When C300PM fails over due to IOLINK failure at the Primary, the CLs accessing the I/Os in a remote I/O chassis fails.
		Description: When C300PM fails over due to IOLINK failure at the Primary, the CLs accessing the I/Os in a remote I/O chassis fails.
		Recovery:
		1. From Native Window, open the process module point's (PMP) Point Detail Display.
		2. On the MAIN page, under OPER column, click the NORM target and then click the OFF target and press ENTER. This will cause the PMP to transition from FAIL to LOAD.
		3. Under EXEC column, click LOAD and then click START and press ENTER. This will start the CL execution from the beginning.
		Workaround: Consider recoding the PM/CL Sequence to use a WHEN ERROR clause on the write operations. Recompile, reload and restart the PM/CL Sequence program.
REUCN-	C300PM-controller	**Error Indication:** In peer controllers, the

PAR	Function	Description
3408		control strategies where BADCTLOP parameter is configured with a value other than "NO_SHED", it may shed to "MAN" mode during the migration from HPM/EHPM to C300PM. The SWAP PRIMARY operation during migration or SWITCHOVER operation might result in mode shed in the peer controllers. **Description:** In peer controllers, the control strategies where BADCTLOP parameter is configured with a value other than "NO_SHED", it may shed to "MAN" mode during the migration from HPM/EHPM to C300PM. The SWAP PRIMARY operation during migration or SWITCHOVER operation might result in mode shed in the peer controllers. **Recovery:** None. **Workaround:** Perform the following procedure before starting the HPM/EHPM to C300PM migration or SWITCHOVER operation. 1. Run a DOCTOOL query for the peer controllers to identify all tags configured with BADCTLOP "<>" NO_SHED. List the parameter BADCTLOP in the result file and save it for future reference (TAGS1.XX). 2. Run a DOCTOOL query for the peer controllers and generate a list of tags configured with BADCTLOP "<>" NO_SHED (e.g TAGS2.EL). 3. Generate an EC file to set the BADCTLOP = NO_SHED. 4. Use the DEB engineering command 'ALTER PARAMETERS' to set the entity list to BADCTLOP=NO_SHED. 5. After migration, set BADCTLOP parameter to the original configuration by referring the result file generated in step 1 (Use the engineering command 'ALTER

PAR	Function	Description
		PARAMETERS' to do this change in bulk).
REUCN-3949	C300PM-controller	**Error Indication:** C300PM in OFFNET state cannot be rebooted from Native Window using the REBOOT command. **Description:** When a C300PM is in OFFNET state in Native Window, the RUN STATES target does not show the REBOOT option in Native Window. It shows the default option SHUTDOWN, which is not applicable for a C300PM in OFFNET state. **Recovery:** None. **Workaround:** Use the following action to perform reboot operation. • From Firmware Manager, right-click on the Device Index and click REBOOT.
1-DN3KN1D	C300 Controller	**Error Indication:** None. **Description:** FTE Cable Fault alarms are not reported by Series C family. **Recovery:** None. **Workaround:** Monitor FTE Status Display.
1-D3HTSBP	CEE-Database	**Error Indication:** Control Builder fails on Bulk edit/Bulk build list Dialog box when you mouse over the Browse path. **Description:** When a tool tip text exceeds 80 characters in Browse path of Bulk edit/Bulk build list Dialog box. Control Builder fails. **Recovery:** Restart Control Builder and avoid moving mouse over Browse list of Bulk edit/Bulk build. **Workaround:** Change the Browse path so that the Tool Tip path shall not exceeds 80 characters.
1-BALRZR7	CEE-Database	**Error Indication:** Loss of View observed due to PCM number mismatch between controllers and CDA Server.

PAR	Function	Description
		Description: The PCM number is extracted from the first CDA requested and cached by the controller. Every other CDA request gets compared wit this PCM number.This is a flaw. If the CDA Request comes from a different source when the controller is ready to accept one, then a wrong PCM number within the Controller and any subsequent request from the actual server fails, causing a Loss of View. **Recovery:** None. **Workaround:** None.
1-AWXL6U5	ControlEdge UOC–CPM–Hardware	**Error Indication:** On CheckPoint Restore of EtherNet/IP Output modules, instead of back initializing with the output to fail–safe value, it sets to PID minimum output value momentarily. **Description:** On CheckPoint Restore of EtherNet/IP Output devices in NODB condition, the output module is set to minimum PID Output value instead of Fail Safe value momentarily till the control strategy pushes the new value. This happens even if the Output module Fail safe option is configured for fail–safe value. **Recovery:** Recovers automatically on next CM execution cycle to intended value. **Workaround:** None.
1-DYM9SU5	ControlEdge UOC–Platform	**Error Indication:** After 12 days and 5 hours of vUOC runtime, Connection timeout occurs randomly with few Servers and Consoles. **Description:** After 12 days and 5 hours of vUOC runtime, Connection timeout occurs randomly with few Servers and Consoles along with peer–to–peer issues. **Recovery:** Impacted vUOC recovers automatically within 4–10 seconds. **Workaround:** None.

PAR	Function	Description
1-DMZSZV5	CF-Control Function	**Error Indication:** Control Builder fails often during runtime. **Description:** Control Builder failure issue can be observed sometimes when Control Builder is left open overnight. **Recovery:** None. **Workaround:** Clear the logs if you open any strategies in Monitoring side then re-launch it. Ensure you close Control Builder when the Operations are done and then launch it whenever required.
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-ASOCK0B	Control Functions – Continuous	**Error Indication:** The HB block does not obey the "Force disable transition low" (FDL) command when in Latched mode of operation. **Description:** The HB block does not obey the "Force disable transition low" (FDL) command when in Latched mode of operation. Even when FDL is ON, it allows the output (Y) to be changed to OFF. This behavior is observed in both Auto/manual mode. **Recovery:** None. **Workaround:** None.
1-B2EABBH	Control Functions –	**Error Indication:** When the rate of change

PAR	Function	Description
	Continuous	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 ramp is active, this movement does not make it to the SIGNALSEL.PV output. **Recovery:** None. **Workaround:** Set PVRATE = Nan.
1-B45A1A0	Control Firewall	**Error Indication:** "RX Dropped" parameter for Uplink Port in Statistics window shows non-zero value. **Description:** "RX Dropped" parameter indicates the number of packets which are discarded due to Network conditions. **Recovery:** None. **Workaround:** None.
1-ATQUI67	Control Builder	**Error Indication:** Control Builder fails on Bulk edit/build list Dialog box when Mouse is run over Browse path. **Description:** When a tool tip text exceeds 80 characters in browse path of Bulk edit/build list Dialog box. Control Builder fails. **Recovery:** Restart Control Builder and avoid mouse over through the Browse list of Bulk edit/build. **Workaround:** Change the browse path so that the Tool Tip path shall not exceed 80 characters.
1-DPPTQ7L	Control Builder	**Error Indication:** By bulk editing parameters of QVCS strategies from Bulk Configuration tool, the Checked-in objects remains in Read/Write mode. **Description:** 1. Launch Bulk Configuration tool,

PAR	Function	Description
		navigate to Bulk Edit parameters option. 2. Create a Bulk Edit Workbook with the Strategies under QVCS. 3. Proceed with Process Data worksheet and save the changes to the ERDB. After Successful completion, Control Builder Strategies Under QVCS remains in Read/Write mode. **Recovery:** After closing and re-opening Control Builder, the access to the objects goes to Read Only. **Workaround:** Use Engineering Data Builder Tool, which is the tradition Bulk Edit tool for Bulk Edit Operation.
1-AUHJAWD	Control Builder	**Error Indication:**Control Builder fails often during runtime. **Description:** Control Builder failure can be observed sometimes when Control Builder is left open overnight. **Recovery:** None. **Workaround:** Clear the logs if any strategies are opened in Monitoring side then relaunch it. Please close Control Builder when the Operations are completed and then launch it as and when required.
1-DRMAK59	Control Builder	**Error Indication:** Control Builder application fails unexpectedly. **Description:** While performing IXP Export with content operation on C300 controller that has more number of IOMs and strategies, Control Builder application fails unexpectedly. **Recovery:** Re-launch Control Builder. **Workaround:** None.
1-9PMMA5N	Control Builder	**Error Indication:**QVCS Revert Operation of a Block reverts/modifies dependent block but the version number of the dependent

PAR	Function	Description
		block does not 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. The IOPOINT/Channel moves from IOM2 to IOM1 and the version of IOM1 changes to Version 1. So IOM2 also reverts to Version 1 state but the version number of IOM2 does not get changed.It still remains in Version 2 which is incorrect.
		Recovery: None.
		Workaround: None.
1–8R3OZRR	Control Builder– Automated Device Commissioning	**Error Indication:** During Automated Device Commissioning workflow, the Configure Device step fails with an error.
		Description: This error is observed when there is a simultaneous execution of HART Point Parameter Access functionality on the same Experion cluster where Automated Device Commissioning gets executed.
		Recovery: The recovery mechanism is to close all the internal clients (Displays/Trend/History/OPC Clients) which performs HART Point Parameter Access functionality. Then after a considerable wait time of 10 minutes, perform the Automated Device Commissioning workflow.
		Workaround: The Automated Device Commissioning workflow needs to be done

PAR	Function	Description
		when there is no HART Point Parameter Access functionality used in an Experion cluster.
1-9T3EBSR	Control Builder–Automated Device Commissioning	**Error Indication:** None. **Description:** None. **Recovery:** None. **Workaround:** The HART handheld device or Field Device Manager can be used to rename the EH_Cerabar S device.
1-6ESQ6LP	Control Builder–Bulk Build/Edit	**Error Indication:** Bulk building and assigning the channels resulted in the same channel number. **Description:** It has been observed that if you create SC AI, AO, DO, DI bulk channels using Smart Builder then assign the same bulk channels to respective SIMIOM under Project side. It is observed that after load of SIMIOM channels, all channels are shown as "1" on Monitoring side. If you turn on single channel output (DO Ref block) from CM using DEVCTL then all other DO channel output gets turned ON. **Recovery:** Unassign all the channels and then delete the SIMIOM. Create a new SIMIOM and then assign the channels using Manage IOChannels Option of Smart Builder. **Workaround:** Perform the following to bulk build and assign channels using Smart Builder: 1. Bulk build the channel blocks using "Bulk Build Strategies" option in Smart Builder. Do not do any IO assignment during this step. 2. Select all the Channels created in first step and Choose "Manage IO Channels" option in Smart Builder to do an IO Assignment which assigns the Channel blocks correctly with proper channel number to the

PAR	Function	Description
		corresponding IO module. **Note:** If channels are assigned to SIMIOM then you need not specify even the Channel number, only SIMIOM name is sufficient. If IOM is not SIMIOM then IOMName and Channel number both must be specified.
1–C8WLKP3	Control Builder–Change Parent	**Error Indication:** After performing change parent to different UDT, an export of the instance and the UDT followed by delete from Control Builder, then an import of the instance and its UDT shows errors that the Base User Defined Template for this block is not found and hence you may need to delete it and re-import it along with the UDT. **Description:** After performing change parent to different UDT, an export of the instance and the UDT followed by delete from Control Builder, then an import of the instance and its UDT shows errors that the Base User Defined Template for this block is not found and hence you may need to delete it and re-import it along with the UDT. **Recovery:** Delete the imported instance and its UDT. Close and reopen Control Builder. Import the instance and the UDT. **Workaround:** Close and reopen Control Builder after the delete step. This issue is observed if import is done immediately after the delete of the UDT.
1–DODJI3B	Control Builder–Chart	**Error Indication:** Moving blocks closer to each other using arrow keys in Control Builder Chart renders Control Builder unresponsive. **Description:**When you move the connected AND block very close to each other using arrow keys of the keyboard, and continue with up/down navigation, Control Builder

PAR	Function	Description
		becomes unresponsive, and it prompts to "Close the program". **Recovery:** None. **Workaround:** Zoom in and use the mouse to move blocks closer to each other.
1–84A6M3P	Control Builder–Chart	**Error Indication:** The following error is shown when you click the 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 are 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 in certain scenarios but not most of the time.
1–A7Q5HJ7	Control Builder–Copy Paste	**Error Indication:** EHI Internal Error is shown during the Copy operation of Container Control module. **Description:** Copy of a Container Control module having huge number of embedded objects (CM, SCM, RCM) fails in Control Builder. **Recovery:** Not applicable. **Workaround:** None.
1–4V5Q9HJ	Control Builder–Configuration Form	**Error Indication:** 1. Loaded C300ME and strategies belongs to C300ME 2. Activated all the strategies in Monitoring side to test RRR, set the CEE STATE option in C300ME CEE as WARMSTART. Then for

PAR	Function	Description
		all the CMs start setting the CEERESTART option as "followCEE". It is observed that you can set it for a few CMs (6-8 CMs), but when you set for 9/10th CM, Control Builder fails. This is observed each time you run the test. **Description:** Control Builder fails when CEERESTART is set in the CMs. **Recovery:** Close Control Builder and reopen again. **Workaround:** None.
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 reasons, then I/O channels which gets loaded successfully to Monitoring side shows the CM name in the Tree view and form which they were associated with. But as CMs are not loaded successfully, it should not display the CM name against the channels. **Recovery:** Reload the CM which 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 issue is seen in AI,AO, DI, DO reference blocks configured with the corresponding channels. **Recovery:** Perform Upload/Update

PAR	Function	Description
		operation on the I/O module itself such that the changes on the Monitoring side gets updated to Project side as well. **Workaround:** To overcome this issue, perform Upload/Update operation on I/O module itself.
1-8HFAR5J	Control Builder-Load	**Error Indication:** No error will be thrown but there can be broken connections in the Control Module which can be either receiving incorrect signals or not receiving signals from the corresponding function block. **Description:** Refer to the relevant document *Broken Connection Issue Scenarios ALL.docx* to know the scenarios in which Broken connection issue can occur. **Recovery:** Recover from this issue by downloading all the referred Control Module's (SCMs, RCMs) which has connections to the modified Control Module. **Workaround:** Whenever you perform any of the specified operations as mentioned in the document *Broken Connection Issue Scenarios ALL User.docx* , you must load the modified Control Module along with all the referred CM /SCM's inorder to avoid broken connection issue. **FINDTAGSTOLOAD.exe** tool can be used after performing Engineering operations like import, export, changeparent, deletion of blocks, and so on to know the list of Control Module's that has to be loaded in order to avoid broken connection.
1-4SZ9242	Control Builder-Configuration Form	**Error Indication:** The Client request for HART data fails and the status can be represented corresponding to the application. For example, when HART Data Status is BAD on displays, it shows an inverse video. On trends, it displays "?????". History shows some gaps for that period. OPC clients shows status as BAD with

PAR	Function	Description
		an empty value.
		Description: HART Point Parameter Access is subjected to slower performance than 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 read request is not completed within 1 minute, read request will time-out and fail. OPC Clients fail to get data in such cases. This limitation of Experion Server has an impact on Clients accessing HART data (with DD parameters) using Demand Reads.
		Recovery: None.
		Workaround: In order 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 you can configure up to 10 parameters for access. Simultaneous access of more number of HART devices using demand read can cause Application connection time out.
1-28C3M4F	Control Builder–Configuration Form	**Error Indication:** QVCS checked in strategies becomes editable after import of Foundation Fieldbus or Wireless DD file in Control Builder.
		Description: Checked in Control modules (having reference to FF blocks) become editable after performing import of the corresponding Foundation Fieldbus OR Wireless DD.
		Recovery: Closing and reopening Control Builder makes the strategies non-editable.
		Workaround: Closing and reopening Control Builder makes the strategies non-editable.
1-BT97N8T	Control Builder–Fieldbus	**Error Indication:** An error "Encountered an improper argument" window appears.
		Description: For Fieldbus device ABB_

PAR	Function	Description
		LMT200, in Monitoring tree, navigate to "ROOTMENU_LABEL-Diagnostics-Waveform" and hover the mouse pointer on graphs, an error "Encountered an improper argument" window appears. **Recovery:** This requires to end the contbldr.exe from taskbar. **Workaround:** None.
1-BQXLZQP	Control Builder-Print	**Error Indication:** When printing a chart from Control Builder Monitoring tab, the printout, in the output file, printer or print preview may include elements from the Project tab instead of the Monitoring tab. **Description:** Timing issue is believed to be the root cause of this issue. **Recovery:** No recovery is necessary as no persistent side effect results from printing incorrect or incomplete information. **Workaround:** One possible workaround, if acceptable, is to make the selection of the parameters on function blocks the same regardless of whether the chart is the Project or Monitoring tab chart.
1-CYCA805	EBM-Controller	**Error Indication:** Sequential Control Module or Recipe Control Module with N_IEC Commands in Processing state, when Aborted does not get de-energized in certain conditions. **Description:** A Sequential Control with N_IEC Step Outputs configured to use an Alias Reference and the PEERALGOOPT set to a different value than NONE, SCM cannot de-energize the N_IEC Output if the MODE was set to MAN. The start of the HOLD or ABORT Handler is blocked until the Operator sets a Bypass on the Particular N_IEC Command. **Recovery:** None. **Workaround:** Change the LOOKAHEAD Parameter back to NONE for the SCM or

PAR	Function	Description
		RCM.
1-D2889FL	EBM-Controller	**Error Indication:** RCM with RecipeStep block with TERMSTATEOPT and EXECUTEOPT Not Enabled cannot reach Held/Aborted state. **Description:** When the RecipeStep block with TERMSTATEOPT and EXECUTEOPT Not Enabled is Active or a step with S_IEC/N_IEC Output is Active and if the Operator switches MODE to MAN and then commands the RCM to Hold/Abort, it does not reach Held/Aborted state. **Recovery:** Inactivate the RCM or Change CEE State to Idle if the RCM is associated with an Activity. **Workaround:** None.
1-DGC2UO9	EBM-Controller	**Error Indication:** Unit is owned by unrelated Control Recipe after Unit hits unmanaged conflict error in Resource arbitration queue. **Description:** In a Recipe configuration with shared units, after multiple execution of Batches, the Unit gets into 'Unmanaged Conflict' state and is owned by unrelated Control Recipe. **Recovery:** None. **Workaround:** None.
1-DGC2UOK	EBM-Controller	**Error Indication:** Batch goes to Fail state, due to Data type error in last N_IEC Step output sequence. **Description:** Batches created against MR Phases which runs on same Unit and acquires same common Device through Main and Abort handler sequences, goes to Fail state on Abort after running hundreds of Batches. **Recovery:** None. **Workaround:** None.

PAR	Function	Description
1-DGVKY6L	EBM-Controller	**Error Indication:** Inactivation/ reload of MRs in use by multiple batches, when the MR is not acquired by any Batch result in failed activities. **Description:** When a MR configured to be used in multiple Recipes and has multiple Batches created and running, inactivation/reload of MR when it is not acquired by any of the Batch results in MemManIntErr. **Recovery:** None. **Workaround:** Do not inactivate/reload MR when there are active Batches configured to use it.
1-C7H42YP	EBM-Controller	**Error Indication:** Batch execution goes with the Function Reference based on the initial Unit selection done during LookAhead. **Description:** Equipment does not get associated as per Function Reference, if the Unit Selection is modified in a pre-execution Batch, after performing a LookAhead. **Recovery:** None. **Workaround:** None.
1-CC0YJ3B	EBM-Controller	**Error Indication:** A batch commanded to Hold while waiting for its resource, remains in Holding state even after the resource becomes available for Acquisition. **Description:** When a Batch B waiting for a resource from another Batch A is commanded to Hold, Batch B remains in Holding even after the resource is released by the other Batch A. **Recovery:** None. **Workaround:** Do not command a Batch to Hold, when it is waiting for resources to be acquired.
1-DS1QJVN	EBM-Controller	**Error Indication:** Recipe Step block cannot

PAR	Function	Description
		command the Child RCM/SCM in a peer Controller to Start, if the Child RCM/SCM was acquired when the peer CEE is in Idle State.
		Description: Recipe Step block acquires the Child RCM/SCM in a peer Controller and completes Formula Parameter download, even if the CEE containing the RCM/SCM is in Idle State. The child can be commanded to Start only when the CEE is in RUN State, the command to the Child times out if the CEE is in Idle State for a long time and the Recipe Step block goes to Fail State.
		Recovery: None.
		Workaround: Ensure that there are no dependent active Batches in peer Controllers before changing the CEE State of a Controller to Idle.
1-DGC2UOU	EBM–Controller	**Error Indication:** None.
		Description: Batches created against MR Phases which runs on the same Unit and acquires the same Common Device through Main and Abort handler sequences, goes to Fail State on Abort after running hundreds of Batches.
		Recovery: None.
		Workaround: None.
1-C7AT7E7	EBM–Tools	**Error Indication:** A fatal error occured as shown in the dialog. Please see the attached screen shot.
		Description: Inside MR UDT, if you try to copy and paste a step block having expressions, a fatal error is thrown. This occurs only when the MR UDT has instances.
		Recovery: None.
		Workaround: Enter the expressions manually after creating a new block through drag and drop.

PAR	Function	Description
1–CWY0IYV	EBM–Tools	**Error Indication:** Change Parent operation fails for SCMs with certain configurations. **Description:** When you try to do a Change Parent Operation between one SCM UDT to another, under certain circumstances it fails and Change Parent is not successful. **Recovery:** None. **Workaround:** None.
1–DIN378T	EBM–Tools	**Error Indication:** Delta Flag appears on the Batch Strategies on both Project and Monitoring side of Control Builder tree. **Description:** Post database migration, Delta Flag symbol appears on Batch strategies that has the Server History and Server Displays configured. The delta symbol appears on both Project and Monitoring side strategies. The configuration of the strategies remains unchanged between pre and post migrated strategies. This is a visible cosmetic anomaly. **Recovery:** Reload the Batch strategies from Project side to get rid of the delta symbols. **Workaround:** Reload the Batch strategies from Project side to get rid of the delta symbols.
1–B0AW4DL	EBM–Tools	**Error Indication:** RCM/MR with Data block/Recipe Step Block load/import failed with Range exceeded error – Data UI not allowing to set Enum values during Batch Execution. **Description:** RCM/MR with Data block/Recipe Step Block load/import failed with Range exceeded error. If errors are ignored then Batch execution prevented to set ENUM value during batch execution. Enum specific parameter changes to a recipe step block type (Phase block template) are not updating once it is used as a DATA block in the Master Recipe. **Recovery:** Fix the error reported during

PAR	Function	Description
		import/load. **Workaround:** Make a small change in Recipe step type (for example, add/delete a char to parameter description) using PDE after ENUM changes and then load the MR.
1–DY0E389	EHPM HART	**Error Indication:** FDM Build Network is unable to detect or discover EHPM HART IOPs. **Description:** In Experion R511.5, FDM Build Network is unable to detect or discover EHPM HART IOPs. **Recovery:** Install Experion R511.5 Update1. **Workaround:** Use FDM with EHPM HART functionality <u>only</u> after you install Experion R511.5 Update1.
1–DSH80C3	EIP-CEE-EMBEDDED	**Error Indication:** Bulk Build and assigning the channels resulted into same channel number. **Description:** It has been observed that if you create SC AI, AO, DO, DI bulk channels using Smart Builder then assign same bulk channels to respective SIMIOM under Project side. It is observed that after load of SIM IOM and channels, all channel numbers are shown as "1" in Monitoring side. If you turn on single channel output (DO Ref block) from CM using DEVCTL then all other DO channels output becomes on. **Recovery:** To unassign all the channels first and delete the SIMIOM in this case, you must create a new SIMIOM and then assign the channels using Manage IOChannels Option of Smart Builder. **Workaround:** You must follow a two step process to bulk build and assign Channels using Smart Builder as a workaround. 1. Bulk build the channel blocks using "Bulk Build Strategies" Option in Smart Builder. Do not do any IO assignment in this step.

PAR	Function	Description
		2. Select all the Channels created in first step and choose "Manage IO Channels" option in Smart Builder to do an IO Assignment which assigns the Channel blocks correctly with proper Channel number to the corresponding I/O module.
		Note: If channels get assigned to SIMIOM then user need not specify even the Channel number, Only SIMIOM name is sufficient. If IOM is not SIMIOM then IOMName and Channel number both has to be specified.
1-AXSKXCZ	EIP-CEE-EMBEDDED	**Error Indication:** On CheckPoint Restore of EtherNet/IP Output modules, instead of back initializing with the output to fail–safe value. It momentarily sets to the PID minimum output value.
		Description: On CheckPoint Restore of EtherNet/IP Output devices in NODB condition, the output module is set to PID Output minimum value instead of Fail–safe value momentarity till the control strategy pushes the new value. This happens even if the Output module Fail safe option is configured for Fail–safe value.
		Recovery: Recovers automatically on next CM execution cycle to the intended value.
		Workaround: Recovers automatically on next CM execution cycle to the intended value.
1-C8ATT2O	EIP-CEE-EMBEDDED	**Error Indication:** Changing Command 48 Configuration for HART devices connected over EtherNet/IP network and performing Load While Active (LWA) does not work as expected.
		Description: For HART devices connected to HART Over EtherNetIP supported IO Modules, changing Command 48 notification configuration from Alarm to Event or vice versa and performing Load While Active does not work. The new value

PAR	Function	Description
		change gets stored in Controller, but Alarms/Events notification does not get updated.
		Recovery: Load the IOM for any Command 48 configuration changes done for Hart devices under EtherNet/IP network.
		Workaround: Same as Recovery.
1-B36TS1X	EIP-COMMUNICATION	**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 on pulse or off pulse or PWM block pin to DOREF block and keep DO type as a "Status".
		5. Click OK.
		Description: No validation error prompt occurs for on pulse, off pulse and PWM when DOTYPE=Status and DOREF blocks are used. Also reproducible with UIO-1 and Series C DO module.
		Recovery: Change the parameter value and try again.
		Workaround: None.
1-6SDDS6R	EIP-Tools	**Error Indication:** Database query execution error on saving EIP template/phase block/map block.
		Description: The issue is with Database query execution which is reported when you try to modify the existing parameter and save the template. It occurs due to an update query which sends the duplicate ParamID for updating the parameter.
		Recovery: None.

PAR	Function	Description
		Workaround: None.
1-8I8YTYU	EIP-Tools	**Error Indication:** During the import of any EDS file, errors may get reported for the enumeration definitions that contain negative ordinals. In certain scenarios the import may succeed. In such cases, the other Engineering operations like configuration of instance or load of instance may fail.
		Description: The negative ordinals in an enumeration set are not handled properly in Control Builder. An inconsistent behavior is observed while working with such enumeration parameters.
		Recovery: None.
		Workaround: If it is possible, update the enumeration definition and specify ordinals that are greater than 0.
1-B4ZR4WY	EIP-Tools	**Error Indication:** While saving the re-edited EIP device template "EPKS_E_SAVE_PARAMIDENT_EXHAUST", an error is shown.
		Description: If you create a EIP Template and add huge parameters by copy and paste operation, there is a chance to get the Param code which is out of boundary. Hence the error.
		Recovery: None.
		Workaround: As suggested in the Error Message only save the Template with the Save as Renew Option if you encounter this issue.
1-B5093HL	EIP-Tools	**Error Indication:** An error InvalidEnumOridinal is shown while creating EIP channel in CM.
		Description: The following error occurs while creating EIP channel and save.EXPKS_E_CL_INVALIDENUMORDINAL (6L .101.10209) parameter 'CM_

PAR	Function	Description
		ServoTest.MAC800_OUT_01.PNTTYPE' has an invalid enumeration ordinal. This happens only when the template is imported from R500 release to R510/R511 release. **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.
RELCN-2669	ELCN Appliance–AM Redundant	**Error Indication:** None. **Description:** In SafeView with Station tab displays configured, replacing a Station tab display with a non–Station display does not succeed. For example, invoking Native Window into a Station tab-window display not only closes all the Station displays in that window, but the Native Window does not successfully invoke. **Recovery:** Modify and reload SafeView workspace so as to avoid using a "tabwindow = yes" window for non–Station displays. **Workaround:** Ensure in any SafeView workspace in which the attribute "tabwindow = yes;" is provided, that ONLY Station displays are included in the match expression. Do not attempt to match non–Station applications, such as Native Window, GUS displays, or notepad++, and so on . That is, do not include non–Station displays in the matching logic for any displays with "tabwindow = yes;" associated with that window-specification in the SafeView workspace.
RELCNTN-6173	ELCN-Unified Engineering Tool	**Error Indication:** ELCN AM Numeric and Flag points icon state shows red in Control Builder Monitoring tree. **Description:** During the ELCN AM node upgrade or post the first time load of the

PAR	Function	Description
		Platform Block with CEE Enabled, ELCN AM Numeric and Flag points icon state shows red in Control Builder Monitoring tree, if the AM points are imported to ERDB using the ELCN Database Import Tool. No impact on the point data in the Monitoring form or Station Detail Displays. The points function without any issues on the AM node.
		Recovery: Mostly it recovers automatically within 24 hours, otherwise it requires shutdown and restart of the TPNServer. In the Primary Server, expand Control Builder Monitoring tree for AM that has the icon state issue and from the System Management Display perform TPNServer shutdown and restart.
		Workaround: Use the Native Window or HMI Station Detail Display to monitor the AM numeric and flag points.
RELCNTN-4236	ELCN Experion-TPS Nodes	**Error Indication:** Configuration of Ethernet/IPCODE with an AM Point in Control Builder returns a block name not found error.
		Description: In Experion R511.3, only EHPM points are imported and available in the ERDB, therefore, configuring Ethernet/IPCODE with an AM Point in Control Builder will return a block name not found error.
		Recovery: None.
		Workaround: Use Native Window for configuring Ethernet/IPCODE.
REUCN-3403	Engineering Tools	**Error Indication:** No error is reported when an attempt is made to upgrade the Firmware of a synchronized C300PM in IDLE/BACKUP state.
		Description: Firmware upgrade is prohibited when the C300PMs are in sync and OK/BACKUP or IDLE/BACKUP state. If

PAR	Function	Description
		an attempt is made to upgrade the Firmware of a synchronized C300PM in IDLE/BACKUP state, the Firmware upgrade fails as expected. But there is no error reported by the Firmware Manager. **Recovery:** Shut down the C300PM in BACKUP state using Control Builder. After it transitions to RDY state in the Firmware Manager, perform the Firmware upgrade. **Workaround:** None.
1-8W8XR8T	FDS – Field Device Service	**Error Indication:** Configure Device step in Auto Device Commission workflow in Project Engineering plugin in Control Builder fails. **Description:** "Device Configuration did not complete for 'TagName' because error occurred during device communication" message is show in PET plugin during configure device step. The issue is seen only for CERABAR S device. **Recovery:** None. **Workaround:** None.
1-8NPLXTR	FDS – Field Device Service	**Error Indication:** The Client request for HART data fails and the status will be represented corresponding to the application. For example, when the HART data Status is BAD On displays, it shows an inverse video. On trends, it shows ?????. History shows some gaps for that period. OPC clients shows the 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 read request is not completed within 1 minute, read request will time-out and fail. OPC Clients would not get data in such

PAR	Function	Description
		cases. This limitation of Experion Server has an impact on Clients accessing HART data (using DD parameters) using Demand Reads. **Recovery:** None. **Workaround:** In order 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 Application Connection time out.
1-CZ28NXD	Fieldbus Interface Module-Series C	**Error Indication:** AO block went to 3354 error device after the FIM2 /FIM4 switchover and all the AOs get freezed. **Description:** AO block went to 3354 error device after the FIM2 /FIM4 switchover and all the AOs get freezed. **Recovery:** To recover from the situation, you must perform the LINKSHUTDOWN and recommission the device by deleting the device from Monitoring side. **Workaround:** Perform Initial synchronization before migration. 1. Disable FIM synchronization. 2. Enable FIM synchronization.
1-DXGYYTR	INS-EXPPLUS INIT Media	**Error Indication:** HP Z4G4 platform Yellow Adapter (Intel(R) Ethernet Connection (2) I219-LM) causes the FTE alarms and silent statuses in the FTE Status Display. **Description:** The Intel(R) Ethernet Connection (2) I219-LM adapter does not have the Legacy Switch Compatibility Mode enabled which causes the yellow adapter to occasionally disconnect from the switch causing FTE Alarms. **Recovery:** Enable the Legacy Switch Compatibility Mode on the Yellow adapter.

PAR	Function	Description
		Workaround: Before deploying the HPZ4G4 in the FTE network, configure the following Advanced properties on Intel(R) Ethernet Connection (2) I219-LM NIC: 1. Open the **Network and Sharing Center** from the left-hand menu, select **Change Adapter Settings** and verify the Network Connections window. 2. Select the **FTE Yellow ***Intel(R) Ethernet Connection (2) I219-LM), right click the adapter, select **Properties**. 3. Select **Continue** on user prompt. 4. Click **Configure**. 5. Verify the Intel® Ethernet Connection (2) I219-LM Properties window, Select **Advanced** tab. 6. Select **Legacy Switch Compatibility Mode** parameter change Value to **Enabled**. 7. Select **Energy Efficient Ethernet** parameter change Value to **OFF**. 8. Select **OK**.
1-D28PPC3	ModBus TCP Blocks	**Error Indication:** Primary and Secondary devices fail intermittently. **Description:** If the serial connection to a Primary/Secondary bridge fails, the Secondary/Primary device may fail. **Recovery:** Restore the serial connection. **Workaround:** Change "Device to use" to the working bridge. This may fix the issue until the serial connection is restored.
1-98FOBUJ	Profibus Gateway Module Hardware	**Error Indication:** PGM redundant pair transmits corrupt frames which is setup with line redundancy using RLM. **Description:** PGM in red configuration fails with auto-rebooting. **Recovery:** None.

PAR	Function	Description
		Workaround: 1. To add external active power terminators in the Profibus segment where PGM is present. The external terminator provides additional 5 mA current which helps to maintain the transmit enable high for the entire frame lengths. 2. Configure PGMs at higher band rate, this reduces the transmission time.
REUCN–4117	PMIO	**Error Indication:** The CHTIMOUT error is observed in the IOM IOL INFO Status Display. **Description:** IOP generates CHTIMOUT IOLINK error which disables periodic swap during long run. **Recovery:** RESET IOL COMM ERROR, if the error is observed during normal operation. Ensure that IOLink cable installation is followed as per the recommended guidelines. **Workaround:** RESET IOL COMM ERROR, if the error is observed during normal operation.
1–B8FR609	System Repository	**Error Indication:** Server Redundancy shows that back up SR fails to sync with Primary SR. **Description:** CDB block type with has 750 (formula/report) parameter which internally has 12.5K parameters in total where the size is huge which has caused the sync drop issue. **Recovery:** The data size of this block type is huge and hence sometimes sysrep.exe do not allocate the memory during sync which caused sync drop. By looking at the ERDB and both primary/secondary SR switches over to Server B (SR and ERDB are already in sync for these CDB types), and the issue gets resolved.

PAR	Function	Description
		Workaround: You must try to reduce the number of parameters in CDB blocks to avoid this sync drop issue.
1–BJG8UH6	System Repository	**Error Indication:** SR Sync drops for physical consoles and does not recover. **Description:** When SRDB in multiple physical consoles is deleted and SR service is started, then the SRDB doesn't build completely at times on the physical consoles and SR SYNC drops. **Recovery:** 1. Stop the physical console SR service and rename the SRDB (EPKSOperationalDB.db) present in "C:\ProgramData\Honeywell\Experion PKS\SRDB\". 2. Copy the SRDB from the Backup Server node and paste it in physical console SRDB location. 3. Restart the SR service. **Workaround:** None.
1–BMJ4UZZ	System Repository	**Error Indication:** Loss of View is observed after the system is rebooted on a physical console display for upto 21 minutes. **Description:** When the physical console is rebooted, the System Repository service may take some amount of time based on the size of the SRDB file to populate the SR cache and the operator may observe a Loss of View only during this period on that particular console. **Recovery:** Loss of View recovers on its own once the SR on the physical console completes the Synchronization. **Workaround:** None.
1–BXESCUX	System Repository	**Error Indication:** Dynamic parameter references in CAB block stops working.

PAR	Function	Description
		Description: Dynamic parameter references in CAB block stops working when OPM is enabled. **Recovery:** Continue with the migration and once Dual primary has been obtained, the issue gets resolved. **Workaround:** None.
1-CKAE5LJ	System Repository	**Error Indication:** It is a legacy security issue. Not observed yet. **Description:** Hackers may attack Primary or Client SR and act like SR itself and gain access to SRDB. **Recovery:** None. **Workaround:** None.
1-D36LQ8J	UOC-SERIES-A	**Error Indication:** Echoback Value for TC-FOD161 and open wire fault for TC-FOA041 does not work properly on Ethernet only topology. **Description:** Echoback Value for TC-FOD161 and open wire fault for TC-FOA041 does not work properly on Ethernet only topology. **Recovery:** None. **Workaround:** None.
1-D36LQ97	UOC-SERIES-A	**Error Indication:** TC-FID161 DI IO configured as Counter does not work in UOC-AENTR configuration. **Description:** TC-FID161 DI IO configured as Counter does not work in UOC-AENTR configuration. **Recovery:** None. **Workaround:** None.
1-DW34207	UOC-SERIES-A	**Error Indication:** Series A I/O Module configured on Slot 0 does not communicate. **Description:** Series A I/O Module

PAR	Function	Description
		configured on Slot 0 does not communicate. **Recovery:** None. **Workaround:** None.
REUCN-4000	C300PM-controller	**Error Indication:** In rare circumstances, during the migration from HPM to C300PM under an ENB network, the Backup HPM may fail with 0A13 error once C300PM is made Primary. **Attention:** As C300PM has an embedded HPM software, any known issues from the TPN SCN may also be applicable to C300PM. For more information, see TPN R690.1 SCN document. **Description:** In rare circumstances, during the migration from HPM to C300PM under an ENB network, the Backup HPM may fail with an 0A13 error. If it happens, the failure is seen after migrating the Backup HPM to C300PM and initiating SWAP PRIMARY to make the C300PM as primary. After the swap, the C300PM successfully takes over primary role and the new Backup HPM may fail with 0A13 error. The failure of new backup HPM shall be ignored and it can be replaced with C300PM to complete the migration. At this point, if backward migration to HPM is desired, the workaround steps shall be followed. **Recovery:** None. **Workaround (For Backward migration only):** 1. If HPM is failing with 0A13, then replace HPM with Backup C300PM and load the node as Backup. 2. Perform a swapover of C300PM. 3. Replace the Backup C300PM with HPM and load HPM as Backup. 4. Perform swapover to make HPM as Primary.

PAR	Function	Description
		5. Replace current Backup C300PM with HPM and complete the migration.

10.4   Servers and Stations

PAR	Function	Description
1-DHEJ8JV	Experion Station-Faceplate	**Error Indication:** Experion TPS faceplate alarm indication is reversed for regulatory combo points with OUTIND=REVERSE. **Description:** For TPS regulatory points in which OUTIND is REVERSE and which are configured as combo-points with CDA, the Experion TPS faceplate alarm indication is not similarly reversed. Thus, if the OP alarm is High, it appears as Low on the faceplate. **Recovery:** Do not rely solely on the "L" or "H" faceplate indication next to the OP value on a combo TPS/CDA regulatory point that has OUTIND reversed. **Workaround:** This occurs only for combo (CDA-integrated) points. For OUTIND=REVERSE points, configure them to be non-combo points.
1-4K5UHS7	GUS Faceplate	**Error Indication:** Sometimes Mode does not change from Group Display while using TPS Faceplates in EST for Windows 10. **Description:** Sometimes Mode does not change from Group Display while using TPS Faceplates in EST for Windows 10. **Recovery:** None. **Workaround:** Use HMI faceplates in place of TPS Faceplates.
1-DFB86XF	HMIWeb TPN Details	**Error Indication:** Loss of View is observed due to pcmnumber mismatch between controllers and CDA Server. **Description:** The PCM number is extracted from the first CDA requested and cached by the Controller. Every other CDA request can be

PAR	Function	Description
		compared against this PCM Number.This is a flaw. If the CDA request comes from a different source when the controller is ready to accept one, then a wrong PCM number within the Controller and any subsequent request from the actual server fails, causing Loss of View.
		Recovery: Station automatically recovers after the Loss of View occurs. However, if the number of concurrent history requests remain high, then there is a chance of the Loss of View.
		Workaround: Tuning of the configuration of Clients such as PHD-Experion link can reduce the number of concurrent history requests on Servers to a level that avoids any Station loss of view.
1–DI4E0DF	HMIWeb TPN Details	**Error Indication:** Experion TPS detail display for a latched DI point configured as Component point type shows parameters associated with Full type.
		Description: Expertion TPS latched DI point configured as Component point type nonetheless has parameters such as PVSRCOPT, PVSOURCE which are applicable to Full point type. Attempting to actually modify non–applicable parameters results in an appropriate error and rejection.
		Recovery: Ignore the non–applicable parameters displayed on the Experion TPS detail display for latched DI points.
		Workaround: None.
1–DDL2ZWZ	HMIWeb TPN Details	**Error Indication:** When an alarm is acknowledged from the faceplate of a point in the Group display, a portion of the screen appears black.
		Description: When an alarm is acknowledged from the faceplate of a point in the Group display, a portion of the screen appears black. The size that goes black is random, sometimes it is a small rectangle bar, or an entire faceplate of 1 or 2 points which is hidden in the Group display.

PAR	Function	Description
		Recovery: None.
		Workaround: Click on the black spaces on the screen to get the screen cleared.
1–DI5LSI3	HMIWeb TPN Details	**Error Indication:** The Experion TPS faceplate for Analog out points does not show the OP value.
		Description: The Experion TPS faceplate for displaying TPS points with parameter DISPTYPE=ANALOUT is corrupted and it shows an obvious graphical error for the OP value and the OP barchart.
		Recovery: The error is harmless except that the OP value is not available to be viewed on the Analog out faceplate or the faceplate area of the Analog out detail display.
		Workaround: There are two workaround options: 1. Use HMIWeb Display Builder to open the display **sysdtltpsanalout_fp.htm** and re-save it, Or 2. Copy the **sysdtltpsanalout_fp.htm** display from a previous Experion TPS release to the *..\Honeywell\Experion PKS\client\system\R511* directory. **Note:** There is a subdirectory, sysdtltpsanalout_fp_files, that accompanies any copy of the .htm file. Also, the display and its subdirectory files are read-only. This should be modified via Properties menu to enable write when attempting to open/save the file in HMIWeb Display Builder.
1–DNC3UWN	OPC UA Data Server	**Error Indication:** Periodic log messages on Experion Application Server (EAS) node indicating the Experion OPC UA Server is unable to start.
		Description: The Experion OPC UA Server should run on the Experion Application Server (EAS) node but is failing to start and may generate excessive number of log messages.
		Recovery: None.
		Workaround: Run "hscconfig /createcertstoredir" which will create

PAR	Function	Description
		C:\ProgramData\Honeywell\Experion PKS\Server\data\CertStore. The OPC UA server will then be able to run on the Experion Application Server (EAS) node.
1–DRIS9KL	Procedure Explorer	**Error Indication:** There is a missing data or lack of response from the system. **Description:** Procedure Explorer shows blank transitions. **Recovery:** None. **Workaround:** Restart the application.
1–CQ572ZJ	Procedure Explorer	**Error Indication:**While navigating the ICPP batch, Procedure Explorer performance degrades. Among the many issues, the components that show navigation (tree, breadcrumb) are no longer in sync with each other, unexpected infobars appear, components stop responding, and so on. **Description:** The defect is due to Procedure Explorer going over the active data subscription limit in Server. **Recovery:** Restarting Station and/or Procedure Explorer may allow full recovery. **Workaround:** Avoid viewing the ICPP batches while in lookahead mode (View active only off) until support can be added to Procedure Explorer.

CHAPTER

11

HONEYWELL SOFTWARE COMPONENTS AND VERSIONS

This chapter lists the versions of Honeywell software components.

11.1 Common component versions

Component	Version	Version verification (Only one option is listed)
AppTPSCL	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**.
AppTPSClient	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_CAB_Support	051.101.00600	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**.
HSE_Creator_ Tool	051.105.00300	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	051.101.04200	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	051.101.04200	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 Driver	051.105.01000	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	051.105.01000	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

Component	Version	Version verification (Only one option is listed)
		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**.
Honeywell_IKB_ Service	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_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**.
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	051.101.04200	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**

Component	Version	Version verification (Only one option is listed)
		Packages/Uninstall Experion Product.
Honeywell_ TPSINT_ 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 SignonManager PCSC Plugin	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**.

11.2   Controllers and tools version

Component	Version	Version verification (Only one option is listed)
Control Builder	R511.5	Perform the following steps to verify the version. 1. Launch the **Configuration Studio.** 2. Choose **Configuration Studio > Control Strategy > Configure Process Control Strategies.** 3. Choose **Help > About...**
DBADMIN	511.1.42.444	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	EXP511.1.42.444	Perform the following steps to verify the version. 1. Launch the **Import-Export Tool.** 2. Choose **Help>About...**
IOTOOL	EXP511.1.42.444	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	EXP511.1–42.444	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	EXP511.1–42.0	Perform the following steps to verify the

Component	Version	Version verification (Only one option is listed)
Tools database		version. 1. Launch the **Import-Export Tool.** 2. Choose **Help > About...** ERDB version is displayed after Import-Export tool version.
Engineering Tools and Controllers	EXP511.1-42.0	Perform the following steps to verify the version. 1. Launch the **Maintenance Tool.** The **Maintenance Tool** window appears.
Application Control Environment (ACE)	511.1.42.525	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)	511.1.42.444	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)	511.1.42.444	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)	511.1.42.444	Perform the following steps to verify the version.

Component	Version	Version verification (Only one option is listed)
		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	511.1.42.515	Open Configuration Studio. 1. Choose **Configuration Studio > Experion PKS Cluster Upgrade> Prepare the Cluster for an Upgrade.** This opens the Upgrade Tool.. 2. In Upgrade Tool, choose **Help > About...**
FTE Driver	EXP511.1–42.444	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**.

11.3 Server and client versions

Component	Version	Version verification (Only one option is listed)
Experion Server	511.1–45.0	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	511.1–45.0	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	6.12.106.5029	Perform the following steps to verify the version.

Component	Version	Version verification (Only one option is listed)
Station		1. Choose **Honeywell Experion PKS > Server > Station.** 2. Choose **Help > About...**
HMIWeb Display Builder	6.12.106.5029	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	5.8.4.9	Perform the following steps to verify the version. 1. Launch the Configuration Studio 2. Choose Help > About... 3. Under Provider see Version for Honeywell.QB.QBProvider.Provider
Configuration Studio	4.4.0.43	Perform the following steps to verify the version. 1. Launch the Configuration Studio 2. Choose Help > About... 3. Under Application see Version for Honeywell.CDF.ConfigStudio

11.4   TPS Software Component Versions

Component	Version	Version verification (Only one option is listed)
GUS Display Builder	511.5.8.0	1. Choose **Honeywell Experion PKS > TPS Applications > GUS Display Builder**. 2. Choose Help > About Honeywell GPB.
Native Window	511.5.8.0	1. Choose **Honeywell Experion PKS > TPS Applications > Native Window**. 2. Click Help > About Native Window.
TPN Backup Restore	511.4.8.100	1. Choose **Honeywell Experion PKS > TPS Applications > TPN Backup–Restore**. 2. Choose Help > About....
Component 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	511.5.8.0	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	511.5.8.0	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	511.5.8.0	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	511.4.8.100	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	511.5.8.0	1. Open Windows Explorer and browse to

Component	Version	Version verification (Only one option is listed)
		C:\Program Files\Honeywell\TPS\CLAPPServer\clsrvrdss.exe. 2. Right-click Properties > Details tab and verify File Version.
TPN Server	511.5.8.0	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.

11.5 Compatibility with TPN releases

For TPN Compatibility, refer "TPNCompatibility" tab in the latest "Experion Update Matrix" spreadsheet, available on https://process.honeywell.com.

For full EUCN vs. Experion vs. TPN release compatibility, refer "EUCN" tab in the latest "Experion Update Matrix" spreadsheet, available on https://process.honeywell.com.

CHAPTER

12

HONEYWELL-QUALIFIED THIRD-PARTY SOFTWARE COMPONENT VERSION

12.1   Honeywell-qualified third-party software component versions

This section identifies third-party, Windows-based software applications that are supported on an Experion PKS 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 PKS 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, see the following link.
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.

12.2   Honeywell-qualified third-party embedded software component versions

Component	Version	Verification mechanism (Only one option is listed)
Adobe Acrobat Reader (DC)	17.011.30171	1. Open Adobe Reader. 2. Choose **Help > About Adobe Reader**
Dell Open Manage Server Administrator	9.3	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 Instrumentation	9.3	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.
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.

Component	Version	Verification mechanism (Only one option is listed)
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 Microsoft Windows 10 Enterprise 2016 LTSB (x64)	1607 (OS build 14393.187)	1. Right-click **Start > Run**. 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

13

SUPPORT FOR OPTIONAL SCADA INTERFACES

13.1   Purpose

This technical note details the testing and support status of SCADA interfaces in Experion R410, Experion R43x, Experion R50x and Experion R51x.

13.2   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. This table documents 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

SCADA Interface Support Level	Description
	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.

13.3   SCADA interface support

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

13.3.1   Honeywell devices

SCADA Interface	Support Level				Considerations
	R410	R43x	R50x	R51x	
TDC 3000	Supported	Supported	Supported	Supported	–
S9000 Integration	Supported	Supported	Supported	Supported	–
620 LCS Serial and Ethernet Interface	Supported	Supported	Supported	Supported	–
UDC 3000/5000/6300 Integration	Supported	Supported	Supported	Supported	–
DPR Recorders	Supported	Supported	Supported	Supported	–
RM7800 Flame Safeguard	Supported	Supported	Not Validated	Not Validated	–
Universal Modbus Interface	Supported	Supported	Supported	Supported	Allows communication with UMC800, HC900 and other compatible devices and controllers. Please see the Honeywell Universal Modbus Interface Reference for more details.
MasterLogic	Supported	Supported	Supported	Supported	R5xx BCC: Please contact TAC or your Sales Account Manager if you require this interface.
FSC and Safety Manager	Supported	Supported	Supported	Supported	–
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 and R501

13.4 Industry standard interfaces

SCADA Interface	Support Level				Considerations
	R410	R43x	R50x	R51x	
Modbus (RTU, Plus, ASCII and 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. 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 Client Interface (Classic 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	

SCADA Interface	Support Level				Considerations
	R410	R43x	R50x	R51x	
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–61850 Protocol Interface is currently not supported by R5xx BCC.

13.5 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, please contact your Account Manager to discuss options including the use of MatrikonOPC drivers.

Legacy Experion interfaces not listed here may still be supported for upgrades only. Please review the Experion PKS R410/R43X/R50x/R51x SCN for further details.

SCADA Interface	Support Level				Considerations
	R410	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	R5xx: RSLinx 4.10.00 is supported. R51x: See 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 or Experion R43x or Experion 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 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. Very low risk as this is a serial interface. Honeywell plans to work with customers to validate. In

SCADA Interface	Support Level				Considerations
	R410	R43x	R50x	R51x	
					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://process.honeywell.com/us/en/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 OpenBSI 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. Reference: http://www.documentation.emersonprocess.com/groups/public/documents/instruction_

SCADA Interface	Support Level				Considerations
	R410	R43x	R50x	R51x	
					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	Not Validated	Not Validated	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	Honeywell has validated this interface to work with Experion server for R43x and R500 only. Customers should consider moving to the Kepware OPC Server as the long-term solution: https://www.kepware.com/en-us/products/kepserverex/drivers/ge-ethernet/ This Kepware OPC Server is supported on the Experion server. Notes: • GE Fanuc Series 90 Interface was last tested against GE Fanuc Host Communication Toolkit version 1.02 distributed as part of IC641SWP058B

SCADA Interface	Support Level				Considerations
	R410	R43x	R50x	R51x	
					Toolkit for Windows NT C/C++ Applications. • GE 9030 and GE Rx7i were validated. • GE Host Communications Toolkit has been discontinued by GE. Honeywell is not able to provide support for the toolkit. • The GE 9030 PLC reached end of life in October 2017. Also see the Be-Aware for more details on supported models: https://process.honeywell.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 or Experion R43x or Experion 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	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.

SCADA Interface	Support Level				Considerations
	R410	R43x	R50x	R51x	
Paperless					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 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. 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.

SCADA Interface	Support Level				Considerations
	R410	R43x	R50x	R51x	
					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 Validated	Not Validated	Not Validated	Not Validated	Honeywell has not validated this interface with Experion R410 or Experion R43x or Experion 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.
Siemens S7	Validated	Validated	Not Validated	Validated	Siemens Simatic Net Hardnet-IE S7 V15 SW for S7
Spirit IT Flow-X Interface	N/A	Supported	Supported	Supported	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 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.

SCADA Interface	Support Level				Considerations
	R410	R43x	R50x	R51x	
Yamatake MA500 Interface	Supported	Supported	Not Validated	Not Validated	Not applicable

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