



Experion PKS

Release 530

Software Change Notice

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CONTENTS

Chapter 1 - About this release	7
Future Proofing your Operations	7
Revision history	8
Related information	8
Chapter 2 - Release Enhancements	9
C300PM	10
Operational Enhancements	11
Experion Batch Enhancements	11
Watchlist	13
Web application support in Station	13
Documentation Enhancements	14
New guides added in this release	14
Discontinued guides from this release	14
Migration Enhancements	14
Streamlined Tools and Controller updates process	14
Firmware update efficiency improvements	14
Installation changes to support Energy Control System R111 roll forward to Experion R530	15
C200-UOC Migration	15
Security Enhancements	16
Experion Security Hardening	16
Security hardening of Station Based Security Static Station	16
Extended Service Capability	17
C300 Security Lock Enhancement	17
Software Enhancements	17
Control HIVE Phase2	17

Experion Remote Gateway	18
Support for 2,000 assignable assets	18
Default eServer to HTTPs	18
Replicate quad screen window positioning behavior on the Orion Console	18
OTP Light Theme Support	19
UIS R2506 (4778) Additional parameter access on CDA faceplates	19
UIS 4114 Interlock Faceplate consistency	19
Redundancy functionality	19
HMIWeb Display Builder	20
Chapter 3 - Installing or upgrading	21
Supported Controller migration paths	22
Supported Server migration paths	32
Things to be aware of	34
Installing this release	38
Using the Upgrade Tool	39
The Experion Upgrade Tool	39
Chapter 4 - Compatibility details	40
Physical and virtual platforms	41
Physical platforms	41
Virtual platforms	42
FTE Switch Firmware Versions	42
Controller firmware versions	42
TPN/TPS Software Versions	47
TPN Software Component Versions	47
TPS Software Component Versions	47
Third party software and operating systems	49
Chapter 5 - Problems resolved	51

Installation and Migration fixes	52
Common components fixes	53
Controller and Tools fixes	56
Server and Station fixes	71
Chapter 6 - Known issues	82
Installation and Migration Known Issues	83
Common Components Known Issues	84
Controllers and Tools Known Issues	93
Server and Station Known Issues	117
Chapter 7 - Late breaking changes	122
Notices	123

ABOUT THIS RELEASE

Future Proofing your Operations

We are delighted to announce the launch of Experion® PKS R530, an innovative release redefining industrial automation, further building upon the foundation forged through the continuous evolution of Experion PKS.

Experion PKS R530 builds on groundbreaking features for Experion Highly Integrated Virtual Environment (HIVE), Control HIVE, and innovative solutions for Industrial Autonomous operations.

Some highlights:

- The Ethernet Interface Module allows for HIVE integration of smart protocols such as Ethernet/IP, PROFINET, and future support for Modbus TCP while simultaneously providing and offloading protocol processing from the C300 controller.
- Experion Remote Gateway provides a browser independent method to implement fully functional read-only Experion PKS Stations through a web browser, with no Experion client-side software necessary for usage.
- Backup Control Center has been enhanced to support up to three locations, providing for up to a six-server redundancy model for Experion PKS SCADA systems.
- Numerous usability and HMI enhancements, including the introduction for the Dynamic Operator Watchlist for quick reference of key process variables.
- Inclusion of multiple user experience enhancements identified by the customer-led User Input Subcommittee.
- Intrinsic security hardening in alignment with IEC62443 and other industry standards.
- Support for the latest Microsoft Operating Systems.

Revision history

Revision	Date	Description
A	March 2024	Initial release.
B	June 2024	<p>Updated the following sections:</p> <ul style="list-style-type: none"> • Problems Resolved • Documentation Enhancements • Operational Enhancements • Software Enhancements • Controller firmware versions

Related information

Release information	See <i>Experion PKS R530 Data Sheet</i> on the process.honeywell.com website.
Installation assistance	<p>See <i>Software Installation User's Guide</i> on the process.honeywell.com website.</p> <p>See <i>Supplementary Installation Tasks Guide</i> on the process.honeywell.com website.</p> <p>See <i>Getting Started with Experion PKS Software</i> on the process.honeywell.com website.</p> <p>See <i>Integrated Experion TPS User's Guide</i> on the process.honeywell.com website.</p> <p>See <i>Windows Domain and Workgroup Planning Guide</i> on the process.honeywell.com website.</p>
Migration assistance	<p>Experion PKS Update Matrix</p> <p>See <i>Experion Upgrade Tool User's Guide</i> on the process.honeywell.com website.</p>
Contact us	hpsdocs@honeywell.com

RELEASE ENHANCEMENTS

In this section:

<i>C300PM</i>	10
<i>Operational Enhancements</i>	11
<i>Documentation Enhancements</i>	14
<i>Migration Enhancements</i>	14
<i>Security Enhancements</i>	16
<i>Software Enhancements</i>	17

Experion PKS R530 contains several enhancements that can help you optimize your industrial operations. This section contains information about these enhancements, sorted into the categories listed to the right.

C300PM

The C300PM hardware consists of the following updated features:

- Supports Firmware Manager and CMW (Controller Migration Wizard).
- PM operations from Control Builder.
- CEE support on the ELCN SYSMGT dashboard.
- CM templates for Key CEE-PPX use cases.
- C300PM/EHPMX VEP support.
- Performance Improvement.
 - Average number of UCN parameter access per second from the EHPM EE of C300PM (NPARAVG) is increased to 2500 (it was 1500 in earlier releases).
 - The local data access rate (i.e., the parameter accessed by CEE from the same C300PM's EHPM EE) is 2500 parameters per second.
 - CDA data access rate from the EHPM EE of C300PM is increased to 1500 Parameters Per Second (it was 1000 in earlier releases).
 - The validated limit for the number of C300PM controllers per Experion cluster is 60.
- Diagnostics Improvement.
 - Additional parameters are made available in the controller platform block to indicate the load on different data access subsystems (e.g., new parameters to show the LDA, CDA loads, NPARAVG, and overall CDA load from both CEE and EHPM EE).
 - Additional parameters to display the EHPM EE's communications processor to IO-Link load and the EHPM EE's control processor to IO-Link load.
- Redundancy Improvement.
 - When there's a drop in synchronization, the backup C300PM/EHPMX stays as an unsynchronized secondary

without a reboot. It synchronizes successfully without a reboot upon re-establishing the redundancy. (In the past, backup C300PM/EHPMX rebooted when a drop in sync occurred).

- During a swap over / failover, the new backup (old primary) takes 45 seconds less to boot up compared to the time taken in earlier releases.

Operational Enhancements

Experion Batch Enhancements

Batch Feature Packs Integration

The following Experion Batch enhancements are introduced in the Batch Features Pack for Life Sciences Install Base Legacy Migration, which is supported with the EXP530.1 release:

- Trackwise QMS Digital Integration
- Experion Batch Automated Reports, Multi-Batch Reports, Trackwise Integration, Unit Timeline Filters

Batch Historian and Reports

Enhancements to the Batch Historian and Reports consists of the following:

- Support for single and multi-batch reports, with statistical insights and compact recipe-specific reports.
- Addition of new report tiles for improved visualization.
- Implementation of a single Batch Trend functionality.
- Tracking and displaying parameter history within reports.
- Integration of Electronic work Instruction (EWI) support for Formula, Campaign, and EWI events in reports.
- Additional filter options in the Batch Selection Dialog, such as filtering by Campaign ID and Recipe/Formula combination.
- Automatic report generation upon batch and campaign completion.
- Ability to use Experion Batch Historian on a separate node from Experion Batch Historian through DeltaV, supporting the processing of batch event (evt) files from a DeltaV Server for creating Experion Batch Reports.

These Enhancements aim to provide a more comprehensive and efficient reporting system for batch operations.

Experion Explorer

Experion Explorer is a new application integrated with Control Builder as part of the standard Experion Batch solution. Experion Explorer enables one to view procedural models during engineering and navigate to the procedural model hierarchy, which is organized into the procedure, unit procedure, operation, and phase procedural elements.

Unit View: Unit/Equipment View provides information about the equipment requirements view of a selected procedural element needed to make a batch or a specific part of a batch.

This view displays the interdependency between the master recipe and associated equipment resources. Additionally, when you choose a specific step in a recipe, the Equipment View displays the unit template and its function references. This includes information on how each unit instance is set up with equipment references, following the ISA-88 equipment model. This helps in understanding how equipment operations are configured to make a batch or a specific part of it.

Unit layout: Defined specific units needed to make a batch or a specific part of the batch Unit instances of a unit class.

Equipment capabilities: Unit functions are defined in recipe steps to perform specific process functions.

Procedure Explorer

Procedure Explorer is an intuitive recipe visualization tool that allows Operators to explore the procedural aspects of a batch. It displays the batch's procedural hierarchy, the current state and execution status of each procedure, and the active steps and transitions inside each process.

Unit Timeline

Enhancements to the Unit Timeline feature consists of the following:

- Improved filtering options, including an asset filter to reduce the number of units shown.
- Batch ID filter options, displays past units and future unit class lanes for a single batch.
- Alarm and activity status icons are shown in the Unit Card.

- An option to show Recipe Step instead of Public Name in timeline bars and Now card.

Batch Summary

Enhancements to the Batch summary feature consists of the following:

- Formula selection with automatic unit timeline reference batch selection (formulas and reference batch association configured in Production Portal).
- Additional Formula and Campaign column options.

Watchlist

The Watchlist feature provides operators with the convenience of monitoring critical parameters in a single display, eliminating the need to navigate through multiple screens to access the same information.

Operators have the flexibility to configure and personalize the Watchlist based on their operational requirements and the current state of the system. It can be displayed either as a floating window (in the case of a single window station) or as part of the SafeView workspace (in the case of a multi-window station).

The Watchlist displays the following information:

- Live values
- Live history
- Alarm indication

To further manage and manipulate these values, operators can easily access the relevant faceplate by clicking the respective item within the Watchlist.

Web application support in Station

To utilize Microsoft Edge support for web applications in Station, you can launch applications in their own Microsoft Edge window by utilizing the Microsoft Edge option within the '**Call up page**' command. After creating the '**Call up page**' command, you can execute it with from the toolbar button or menu item, or use the '**Invoke Command**' method to call it through script.

Documentation Enhancements

New guides added in this release

The following guides are new in this release:

- *Windows Domain Implementation Guide for Windows Server 2022*
- *Securing Communications Using Certificates and Policies*
- *Experion Remote Gateway Implementation Guide*

Discontinued guides from this release

The following guides are discontinued from this release:

- *Windows Domain Implementation Guide for Windows Server 2012*
- *Window Domain Workgroup Implementation Guide for Windows Server 2003*
- *Window Domain Workgroup Implementation Guide for Windows Server 2008*

Migration Enhancements

In terms of migration enhancements, the following updates have been made:

Streamlined Tools and Controller updates process

Starting from R530, it is possible to install Tools and Controller Updates as a part of the Experion installation or migration process. To add these updates in the ESIS repository, refer to the instructions outlined in the Software Installation User Guide.

Firmware update efficiency improvements

From R530, the Experion installation media only contains only current release firmware files. The Experion installation does not install any older release firmware on the Experion nodes. During migration, the applicable firmware based on your configuration is automatically backed up and restored. If older version of the firmware is required, you can download from the process.honeywell.com.

NOTE: This enhancement does not apply to C200, C200E, IOLIM, LIOM , FIM2, and IOM's (Series C, Series A, CE900IO).

Installation changes to support Energy Control System R111 roll forward to Experion R530

Installation/migration support for the following components and features under ECS R111.

- Experion Application Execution Service
- Experion Python API
- Experion Web API
- HMI Browser
- Experion PKS MQTT Broker
- Certificate Authority

C200-UOC Migration

The following are the updated features of C200-UOC Migration:

- All productized CCLs that are supported in C200 also supports in UOC.
- Support all the Series A chassis – based IOs in UOC with all functionalities.
- Support all the Series A Rail IOs in UOC with all functionalities.
- Support Series A Rail IO and their equivalent 1794 IOs in EIP direct topology using 1794-AENTR or equivalent and native Experion IO templates, in case the site does not want to retain CNET Diagnostic alarms for down link modules like ControlNet Interface module, 1756-EN2TR, and 1756-RM2.
- Qualification of Series H IO replacements in UOC.
- Qualification of FIM2 replacement in UOC.
- Support Exchange communication to third-party PLCs through UOC Downlink.

Security Enhancements

Experion Security Hardening

The Experion Security Hardening provides information that assists in installing certificate authority, provisioning embedded nodes, security policy management, and information to enhance the security of communication between nodes in an Experion System.

Secure Communications in Experion PKS

Experion PKS provides the ability to enable secure communications between selected nodes or applications in a control network. Secure communications includes both encrypted and/or authenticated communication.

Experion Certificate Authority Overview

Experion uses certificates to provide authentication between endpoints. To establish a secure connection, each endpoint must have a certificate that its partner can trust. Trusted certificates are established using commonly issued Certificate Authority (CA) certificates that are used to verify the communication certificates. The Certification Authority (CA) needs to be installed and configured in one of the Experion server nodes through Fault Tolerant Ethernet (FTE) Community.

The Certificate Authority (CA) issues certificates for all communication endpoints in a system. The CA root certificate is made available to all communication endpoints in addition to any communication certificates. This root certificate validates the partner communication certificates during connection negotiation. Any endpoint that has a certificate from the CA and has the root certificate can participate in secure communication with other endpoints in the system.

Security hardening of Station Based Security Static Station

As part of the security hardening measures for the Station Based Security Static Station (EXPD-1059), the following updates are made:

1. For new installed systems, the default configuration for Station 1 has been changed to Operator based security instead of Station based security. Note that this change does not affect existing nodes during the migration process.
2. Consoles, Console Stations, and new Stations added in Quick builder are also default to Operator Based Security.

3. These changes have been implemented to ensure that Experion is secure by default. However, it is still possible to configure the system to match the pre-existing behavior, if desired.

NOTE: For Operator Based security, there is a default IDLE timeout of 600 seconds, which can be configured as per your requirements. If you are using the Signon Manager, this configuration can be adjusted through the Signon Manager configuration tool.

Extended Service Capability

The extended service capability information is covered as part removal of Unified Data Collector (UDC) agent hook from Experion R530 installer.

C300 Security Lock Enhancement

The existing C300 Security Lock Feature is enhanced to optionally prevent the CAB Type Load when the C300's Security Lock is enabled. For more information, see the *C300 Controller User's Guide* from process.honeywell.com.

Software Enhancements

Control HIVE Phase2

The following are the updated features of Control HIVE Phase2:

- New License is introduced for Virtual Control HIVE.
- Supports Associate/Unassociate Control Module to Control HIVE.
- Supports Assign/Unassign Control Module to HIVE Control Application (HCA).
- IOVLAN Support for EIM for Open Protocol Communications (EIP and PROFINET).
- Supports open protocol interfaces through EIM - Ethernet IP & Profinet.
- Supports open protocol interfaces through PGM – Profibus.

Experion Remote Gateway

The Experion Remote Gateway supports zero client computers on the Business Network to have read-only Station access via DSA to Experion process control data and alarms. For more information on the Experion Remote Gateway, see *Experion Remote Gateway Implementation Guide*.

Support for 2,000 assignable assets

To increase the number of assignable assets from a default of 1000 to up to 2000, use the **sysbld** utility as described in "Adjusting sizing of non-licensed items" in the *Supplementary Installation Tasks Guide*.

Default eServer to HTTPS

Now the communication is secured with HTTPS between client computers on the business network and the Experion eServer. This requires the installation of a valid SSL certificate on the eServer node and on each client computer that needs to access Experion process data. For an easy deployment, a self-signed SSL certificate is supplied on the eServer. However, Honeywell recommends that you obtain a Certificate Authority (CA)-signed certificate from a commercial certificate authority. If an enterprise or commercial CA is used, it is likely the trusted root certificate will already be on your client computers. If you are using some other internal CA, this may not have been done. All that is required is for the CA root certificate to be installed on the computer's certificate store.

Replicate quad screen window positioning behavior on the Orion Console

On the Orion Console where a large screen has replaced a multi-screen environment, Station can be configured to match against the parent window that launched the faceplate.

In this way, a faceplate can be positioned next to the placeholder that launched it to achieve the same outcome as matching against the monitor in a multi-screen environment. When it is enabled, the placeholder name of the display that launched the faceplate will be appended to the category string.

For example:

HW_System_Faceplate_Monitor=1_ParentWindowSpec=Level12, where **Level12** is an example placeholder name that contains the display that launched the faceplate.

To configure a placeholder to contain a faceplate launched from a Level2 display, you could use a match statement like this:

```
match = category("?*faceplate?*") and category
("?*ParentWindowSpec=Level2?*");
```

To enable this behaviour in Station add a **SafeviewMatchFaceplateToParentWindow** property to the **stn connection file** and set it to 1 under the **[PAGE]** section: **[PAGE]** . For example, **SafeviewMatchFaceplateToParentWindow=1** .

OTP Light Theme Support

The station provides a choice of classic dark and light themes, but the Operator Touch Panel is always set to a dark theme, regardless of the station theme. You can set the Operator Touch Panel theme to replicate whatever you chose for Station by creating a new registry key. For more information, see the *Operator Touch Panel Guide*.

UIS R2506 (4778) Additional parameter access on CDA faceplates

The Experion CDA faceplate has been updated to provide additional parameter access, allowing for improved monitoring and control of functionality such as PID tuning and SP ramping. Each faceplate now includes essential parameters that were previously missing, enhancing the effectiveness of the standard faceplates and reducing the need for customization prior to use.

Furthermore, a "More" button has been added to the center panel of each faceplate. This new feature enables users to conveniently monitor and control the additional parameters directly through the faceplate interface.

UIS 4114 Interlock Faceplate consistency

Interlock Faceplate is enhanced to monitor and control the Interlock functionality. Each faceplate is enhanced to include some key missing parameters on the faceplate, which improves the effectiveness of these standard faceplates and reduces the need for customizing them before use.

Redundancy functionality

The Experion PKS R530 introduces two enhancements the following enhancement for redundancy functionality:

- Support has been added for opt-in functionality to automatically re-establish server synchronization when it is lost. This reduces

the responsibility of operators, allowing them to concentrate more on critical operational tasks. Automatic synchronization can be enabled on the Redundant Server advanced display.

- The number of backup control centers supported by Experion has been increased from one to two, facilitating deployment scenarios that require three locations for additional redundancy.

HMIWeb Display Builder

The following improvements are to be made to HMIWeb Display Builder:

- Line connectors automatically join between anchor points when display objects are moved. Line connections move and re-route with display objects.
- Process line crossover gaps are shown automatically instead of using multiple lines.
- Flow direction Arrows are shown automatically at configurable locations within lines.

INSTALLING OR UPGRADING

In this section:

<i>Supported Controller migration paths</i>	22
<i>Supported Server migration paths</i>	32
<i>Things to be aware of</i>	34
<i>Installing this release</i>	38
<i>Using the Upgrade Tool</i>	39

Experion PKS R530 has various new features and optimisations that make it easier to install or upgrade. This Section, which is divided into the sections on the right, provides through instructions for the installation or upgrading procedure.

Supported Controller migration paths

The following controller migration paths are supported.

Release	Supported path
R410.1	410.1.85.0 410.1.85.106 410.1.85.112 CPCR1 CPCR2 CPCR3 CPCR4 CP3 CP4
R410.2	410.1.85.209/410.1.85.210 CPCR1 CPCR2 CPCR3 CPCR4
R410.3	410.1.85.221 CPCR1 CPCR2 CPCR3
R410.4	410.1.85.230

Release	Supported path
	CPCR1 CPCR2 CPCR3 CPCR4
R410.5	410.1.85.250 CPCR1 CPCR2 CPCR3
R410.6	410.1.85.270 CPCR1 CPCR2 CPCR3 CPCR4
R410.7	410.1.85.315 CPCR1 CPCR2 CPCR3
R410.8	410.1.85.390 Tools and Controller Hotfix1 Tools and Controller Hotfix2 Tools and Controller Hotfix3 Tools and Controller Hotfix4 Tools and Controller Hotfix5 Tools and Controller Hotfix6

Release	Supported path
	Tools and Controller Hotfix7 Tools and Controller Hotfix8 Tools and Controller Hotfix9 Tools and Controller Hotfix10
R410.9	410.1.85.432 Tools and Controller Hotfix1 Tools and Controller Hotfix2 Tools and Controller Hotfix3 Tools and Controller Hotfix4 Tools and Controller Hotfix5 Tools and Controller Hotfix6 Tools and Controller Hotfix7 Tools and Controller Hotfix8 Tools and Controller Hotfix9 Tools and Controller Hotfix10 Tools and Controller Hotfix11 Tools and Controller Hotfix12 Tools and Controller Hotfix13
R430.1	430.1.96.0 CPCR1
R430.2	430.1.96.100 CPCR1 CPCR2
R430.3	430.1.96.121

Release	Supported path
	CPCR1 CPCR2
R430.4	430.1.96.154 Tools and Controller Hotfix1 Tools and Controller Hotfix2 Tools and Controller Hotfix3 Tools and Controller Hotfix4 Tools and Controller Hotfix5
R430.5	430.1.96.183 Tools and Controller Hotfix1 Tools and Controller Hotfix2 Tools and Controller Hotfix3
R430.6	Tools and Controller Hotfix1 Tools and Controller Hotfix2 Tools and Controller Hotfix3 Tools and Controller Hotfix4 Tools and Controller Hotfix5
R431.1	431.1.49.0 Tools and Controller Hotfix1
R431.2	431.1.49.104 Tools and Controller Hotfix1 Tools and Controller Hotfix2 Tools and Controller Hotfix3 Tools and Controller Hotfix4

Release	Supported path
R431.3	431.1.49.132 Tools and Controller Hotfix1 Tools and Controller Hotfix2 Tools and Controller Hotfix3 Tools and Controller Hotfix4 Tools and Controller Hotfix5 Tools and Controller Hotfix6
R431.4	Tools and Controller Hotfix1 Tools and Controller Hotfix2 Tools and Controller Hotfix3 Tools and Controller Hotfix4 Tools and Controller Hotfix5 Tools and Controller Hotfix6
R431.5	Tools and Controller Hotfix1 Tools and Controller Hotfix2 Tools and Controller Hotfix3 Tools and Controller Hotfix4 Tools and Controller Hotfix5
R432.1	Experion_R432.1_C200-C300_FTEB-SeriesA_QVCS_Patch Tools and Controller Hotfix1 Tools and Controller Hotfix2 Tools and Controller Hotfix3 Tools and Controller Hotfix4 Tools and Controller Hotfix5

Release	Supported path
	Tools and Controller Hotfix6
R432.2	<p>Experion R432.2 EHB Tools and Controller Hotfix 1</p> <p>Tools and Controller Hotfix1</p> <p>Tools and Controller Hotfix2</p> <p>Tools and Controller Hotfix3</p> <p>Tools and Controller Hotfix4</p> <p>Tools and Controller Hotfix5</p> <p>Tools and Controller Hotfix6</p> <p>Tools and Controller Hotfix7</p> <p>Tools and Controller Hotfix8</p> <p>Tools and Controller Hotfix9</p> <p>Tools and Controller Hotfix10</p> <p>Tools and Controller Hotfix11</p>
R500.1	<p>Tools and Controller Hotfix1</p> <p>Tools and Controller Hotfix2</p> <p>Tools and Controller Hotfix3</p> <p>Tools and Controller Hotfix4</p>
R500.2	<p>Tools and Controller Hotfix1</p> <p>Tools and Controller Hotfix2</p> <p>Tools and Controller Hotfix3</p> <p>Tools and Controller Hotfix4</p> <p>Tools and Controller Hotfix5</p> <p>Tools and Controller Hotfix6</p> <p>Tools and Controller Hotfix7</p>

Release	Supported path
	Tools and Controller Hotfix8 Tools and Controller Hotfix9 Tools and Controller Hotfix10 Tools and Controller Hotfix11 Tools and Controller Hotfix12 Tools and Controller Hotfix13 Tools and Controller Hotfix14
R501.1	Tools and Controller Hotfix1 Tools and Controller Hotfix2
R501.2	Tools and Controller Hotfix1 Tools and Controller Hotfix2 Tools and Controller Hotfix3 Tools and Controller Hotfix4 Tools and Controller Hotfix5 Tools and Controller Hotfix6 Tools and Controller Hotfix7 Tools and Controller Hotfix8
R501.4	Tools and Controller Hotfix1 Tools and Controller Hotfix2 Tools and Controller Hotfix3 Tools and Controller Hotfix4 Tools and Controller Hotfix5 Tools and Controller Hotfix6
R501.6	Tools and Controller Hotfix1

Release	Supported path
	Tools and Controller Hotfix2 Tools and Controller Hotfix3 Tools and Controller Hotfix4 Tools and Controller Hotfix5 Tools and Controller Hotfix6 Tools and Controller Hotfix7 Tools and Controller Hotfix8 Tools and Controller Hotfix9
R510.1	BI Special HF2 Tools and Controller Hotfix1 Tools and Controller Hotfix2 Tools and Controller Hotfix3 Tools and Controller Hotfix4 Tools and Controller Hotfix5 Tools and Controller Hotfix6
R510.2	Tools and Controller Hotfix1 Tools and Controller Hotfix2 Tools and Controller Hotfix3 Tools and Controller Hotfix4 Tools and Controller Hotfix5 Tools and Controller Hotfix6 Tools and Controller Hotfix7 Tools and Controller Hotfix8 Tools and Controller Hotfix9

Release	Supported path
	Tools and Controller Hotfix10 Tools and Controller Hotfix11 Tools and Controller Hotfix12 Tools and Controller Hotfix13
R511.1	R511.1
R511.2	Tools and Controller Hotfix1 Tools and Controller Hotfix2 Tools and Controller Hotfix3 Tools and Controller Hotfix4 Tools and Controller Hotfix5 Tools and Controller Hotfix6 Tools and Controller Hotfix7 Tools and Controller Hotfix8 Tools and Controller Hotfix9
R511.3	Tools and Controller Hotfix1 Tools and Controller Hotfix2 Tools and Controller Hotfix3 Tools and Controller Hotfix4 Tools and Controller Hotfix5 Tools and Controller Hotfix6 Tools and Controller Hotfix7 Tools and Controller Hotfix8 Tools and Controller Hotfix9 Tools and Controller Hotfix10

Release	Supported path
	Tools and Controller Hotfix11 Tools and Controller Hotfix12 Tools and Controller Hotfix13 Tools and Controller Hotfix14 Tools and Controller Hotfix15 Tools and Controller Hotfix16 Tools and Controller Hotfix17 Tools and Controller Hotfix18 Tools and Controller Hotfix19
R511.4	Tools and Controller Hotfix1 Tools and Controller Hotfix2 Tools and Controller Hotfix3 Tools and Controller Hotfix4 Tools and Controller Hotfix5 Tools and Controller Hotfix6 Tools and Controller Hotfix7 Tools and Controller Hotfix8 Tools and Controller Hotfix9 Tools and Controller Hotfix10 Tools and Controller Hotfix11 Tools and Controller Hotfix12
R511.5	Tools and Controller Update1 Tools and Controller Update2 Tools and Controller Update2-Hotfix1

Release	Supported path
	Tools and Controller Update3 Tools and Controller Update3-Hotfix1 Tools and Controller Update3-Hotfix2 Tools and Controller Update3-Hotfix3 Tools and Controller Update4 Tools and Controller Update4-Hotfix1 Tools and Controller Update4-Hotfix2
R520.1	Tools and Controller Update1 Tools and Controller Update2 Tools and Controller Update3 Tools and Controller Update4 Tools and Controller Update4-Hotfix1
R520.2	Tools and Controller Update1 Tools and Controller Update2 Tools and Controller Update2-Hotfix1 Tools and Controller Update2-Hotfix2 Tools and Controller Update3 Tools and Controller Update3-Hotfix1 Tools and Controller Update3-Hotfix2 Tools and Controller Update3-Hotfix3 Tools and Controller Update3-Hotfix4 Tools and Controller Update4

Supported Server migration paths

The following server migration paths are supported.

Direct migration	Direct migration
Experion R410.2*	Experion R431.5*
Experion R410.3*	Experion R432.1*
Experion R410.4*	Experion R432.2*
Experion R410.5*	Experion R500.2
Experion R410.6*	Experion R501.1
Experion R410.7*	Experion R501.2
Experion R410.8*	Experion R501.4
Experion R410.9*	Experion R501.6
Experion R430.1*	Experion R510.1
Experion R430.2*	Experion R510.2
Experion R430.3*	Experion R511.1
Experion R430.4*	Experion R511.2
Experion R430.5*	Experion R511.3
Experion R430.6*	Experion R511.4
Experion R431.1*	Experion R511.5
Experion R431.2*	Experion R520.1
Experion R431.3*	Experion R520.2
Experion R431.4*	

NOTE: "*" indicates the paths are supported only through Advanced Migration Technologies.

NOTE: "*" indicates the paths are supported in Single Hop Migration to R530 only through Advanced Migration technologies.

Things to be aware of

This topic lists the things you need to be aware of before installing or migrating to Experion PKS R530.

Before you begin, Honeywell recommends that you check process.honeywell.com for the latest versions of the installation and migration User Assistance.

Consideration	Recommendation
Recent backup	Use <i>Experion Backup and Restore</i> to back up your Experion node.
Downloading the media	<p>The download path containing the contents of the zip file must not exceed 14 characters.</p> <p>For example, C:\temp\update (14 characters).</p> <p>When accessing process.honeywell.com, you must do so from a secured PC rather than an Experion node.</p>
Disk space	<p>Ensure your Experion nodes have the following disk space available:</p> <ul style="list-style-type: none"> • ESV (Experion Server) <ul style="list-style-type: none"> • C Drive: 77 GB • Experion Software path: 49 GB • Experion Run-time Data path: 16 GB • ESVT (Experion Server TPN Connected) <ul style="list-style-type: none"> • C Drive: 62 GB • Software path: 47 GB • Run-time data path: 17 GB • eServer <ul style="list-style-type: none"> • C Drive: 53 GB • Software path: 44 GB • Run-time data path: 11 GB • ACE (Application Control Environment) <ul style="list-style-type: none"> • C Drive: 23 GB

Consideration	Recommendation
	<ul style="list-style-type: none"> • Software path: 15 GB • Run-time data path: 3 GB
	<ul style="list-style-type: none"> • ACET (Application Control Environment TPN Connected) <ul style="list-style-type: none"> • C Drive: 23 GB • Software path: 15 GB • Run-time data path: 3 GB • SCE (Simulation Control Environment) <ul style="list-style-type: none"> • C Drive: 32 GB • Software path: 15 GB • Run-time data path: 3 GB • ES-C (Console Station) <ul style="list-style-type: none"> • C Drive: 52 GB • Software path: 49 GB • Run-time data path: 5 GB • ES-CE (Console Extension Station) <ul style="list-style-type: none"> • C Drive: 48 GB • Software path: 47 GB • Run-time data path: 3 GB • ES-F (Flex Station) <ul style="list-style-type: none"> • C Drive: 48 GB • Software path: 47 GB • Run-time data path: 3 GB • EST (Console Station TPN Connected) <ul style="list-style-type: none"> • C Drive: 42 GB • Software path: 49 GB • Run-time data path: 5 GB

Consideration	Recommendation
	<ul style="list-style-type: none"> • Collab Station <ul style="list-style-type: none"> • C Drive: 32 GB • Software path: 15 GB • Run-time data path: 3 GB • EHG (Experion Hiway Gateway) <ul style="list-style-type: none"> • C Drive: 48 GB • Software path: 47 GB • Run-time data path: 3 GB • E-APP (Experion Application node) <ul style="list-style-type: none"> • C Drive: 32 GB • Software path: 11 GB • Run-time data path: 3 GB • PCUS <ul style="list-style-type: none"> • C Drive: 25 GB • Software path: 2 GB • Run-time data path: 2 GB • ELCN HM <ul style="list-style-type: none"> • C Drive: 25 GB • Software path: 2 GB • Run-time data path: 2 GB <p>For assistance, see the Knowledge Base article Procedure to free up disk space on an Experion node (000139721).</p>
If installing on an Experion Station (ES-T) or a Console Extension Station (ES-SE)	<p>Ensure that the IKB Service package is installed.</p> <p>This is available from the Experion Application dual layer DVD IKB OEP package.</p>
If installing on a non-redundant server	<p>You may experience loss of view until a Console Station is running. To prevent this, stop the AEAEvent Collection service.</p>

Consideration	Recommendation
If installing Batch Application Services on a non-Experion node.	Ensure that .NET Framework 4.7.2 is installed before installing the Batch Application Services.
If migrating controllers	Controller migration is required to avail the new features and when a controller-related error needs a fix. See Controller and Tools fixes for more information.
If installing on a system with a customer specific update	All customer-specific patches and hotfixes are marked as No for Cumulative distribution. For assistance, contact the Migration COE .
If upgrading control firewall firmware	Do not upgrade a CF9 pair together, as it may cause Loss of View. Ensure that you have identified each pair and use one instance of the tool at a time.
After Migration	If migrating the server with the OPC UA Server, OPC UA client, and MQTT interfaces, refer to the 'EXPD-1260' known issue for guidance on certificates used to secure these interfaces.
Upgrade readiness	Use the Upgrade Tool to perform the Upgrade Readiness checks. For more information see the <i>Experion Upgrade Tool User's Guide</i> .
MUST DO items before installing (complete whichever are applicable)	<ul style="list-style-type: none"> • Log into the Experion Server with an account that is in the Windows Administrator and Product Administrator groups. • Stop the SNMP Services. • Close QVCS Manager, if present. • Stop all Checkpoint tasks, if present. Any running tasks must be complete. • Disable all virus scanning, protection, and backup applications or services. • Disable the DVM Logger service, if present. • Close all running applications. • Disable the Experion PKS Server System service.

Consideration	Recommendation
	<ul style="list-style-type: none"> • Disable History collection of the ELCN HM node, and then shut down the node. • Ensure that the installation paths used have both READ and WRITE permissions.
MUST DO items during or after installing	<ul style="list-style-type: none"> • Restart services after completing installation procedures. • If installing from a network, acknowledge any User Account Control prompts received. • If automatic network mapping does not occur, map it manually and proceed. • If the Unresolved Properties dialog appears with ControlInhibit present, you can ignore the prompt and proceed.

Installing this release

Install this release on your Experion nodes in the order indicated below. For more information about installing Experion nodes, see the *Software Installation User's Guide*.

1. Server B
2. Non-redundant Server
3. Flex Station / Collaboration Station
4. Console Station
5. Server A
6. ACE / ACE-T / SCE / EHG
7. EAPP / EAS / eServer / ERG
8. ELCN HM / PCUS

Post-install or migration, complete the following items as required. For more information about following items, see the *Software Installation User's Guide*.

- Install supported optional features on a non-Experion node
- Updating common optional components packages
- Updating Control Firewall firmware

Using the Upgrade Tool

Migration is upgrading the Experion system components, such as servers, stations, clients, ACE, ACE-T, SCE, and SIMIOLIM nodes to the new functional release system software. This upgrade includes Experion controller firmware and I/O hardware.

The Experion Upgrade Tool

The Upgrade Tool checks the upgrade readiness of the nodes and its subsystems in an Experion system. The Upgrade Tool is installed as a part of the Engineering tools installation. If you have redundant servers, the Upgrade Tool is installed on Server B. In case of non-redundant server, the Upgrade Tool is installed on the single server

The Upgrade Tool does not depend on any specific Experion topology. In case of a redundant Experion configuration, the Upgrade Tool is run only on the Server B. In case of a non-redundant Experion server configuration, the Upgrade Tool is run on the single Experion server node. The Upgrade Tool ensures that it does not overload the Experion server.

Before starting an Experion upgrade, you have to verify the upgrade readiness of the Experion system and prepare it for the upgrade. The Upgrade Tool automates the manual process of preparing the Experion system for the upgrade. After the upgrade is complete, you can run the Upgrade Tool to perform a post-upgrade analysis.

Upgrade Tool makes the upgrade readiness process effortless, easy, and error-free. It reduces the manual information gathering time and minimizes the possibility of errors.

Related information

For more information about installing and using the Upgrade Tool, see the *Upgrade Tool User's Guide* on the process.honeywell.com website.

Also, see "Frequently asked questions about the Upgrade Tool" in the *Upgrade Tool User's Guide*.

For assistance Troubleshooting Upgrade Tool issues, see the *Troubleshooting the Upgrade Tool* on the process.honeywell.com website.

COMPATIBILITY DETAILS

In this section:

<i>Physical and virtual platforms</i>	<i>41</i>
<i>FTE Switch Firmware Versions</i>	<i>42</i>
<i>Controller firmware versions</i>	<i>42</i>
<i>TPN/TPS Software Versions</i>	<i>47</i>
<i>Third party software and operating systems</i>	<i>49</i>

Experion PKS R530 ensures broad compatibility with various systems and components. This section provides detailed compatibility information, organized into the categories as listed to the right.

NOTE: Adobe Acrobat Reader is no longer included in the Experion installation media. Honeywell recommends that you use Microsoft Edge to view PDFs.

NOTE: Experion PKS Backup and Restore R520 HF1 is qualified with Experion PKS R530. For more information, see the *Experion PKS Backup and Restore Guide*.

Physical and virtual platforms

Physical platforms

The workstations and servers supported by Experion R530 are listed here.

Workstation	Server
Hewlett Packard	
HP Z440	HPE Proliant DL320 Gen11
HP Z4 G4	HPE Proliant DL360 Gen10
HP Z4G4 MLK	
HP Z4G5	
Dell	
Precision T5860 XL	PowerEdge T150
Precision R7960 XL	PowerEdge R250XE
Precision T5820 XL MLK *	PowerEdge R350XE
Precision T5820XL *	PowerEdge R450
Precision R7920XL *	PowerEdge T550

Workstation	Server
Optiplex XE4	PowerEdge T340
	PowerEdge R240HWL
	PowerEdge XR11
	PowerEdge R340HWL

For additional information about the hardware supported by Experion, see:

- *System Initialization Media Software Change Notice.*
- The [Experion PKS Update Matrix.](#)

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 information about virtualization support, see the following documents on the Honeywell Process Solutions website:

- *HPS Virtualization Specification*
- *Experion Virtualization Planning and Implementation Guide*

FTE Switch Firmware Versions

Upgrading the FTE switch firmware versions is crucial for enhancing functionality and security. For more information about FTE switch firmware versions, see [FTE Qualified switch firmware versions](#) guide on the process.honeywell.com.

Controller firmware versions

The revised controller firmware files are listed here.

Firmware Manager updates can be downloaded from process.honeywell.com.

Module	Model number	Firmware version	File
CE900IO		EXP530.1-84.0	epmv1_prod_signed_external_rls.pkg
			epmv1_reco_signed_external_rls.pkg
			plcuioapp.pkg
CF9		FW_VV4	CF9_PART1.HEX
			CF9_PART2.BIN
C200E		R530.1.0	cee50e.pcm
			cpmboote.pcm
C300	Cx-PCNT01	R530.1.0	c300.lcf
	Cx-PCNT02		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

Module	Model number	Firmware version	File
C300PM		EXP530.1-84.11	NoLoad.bin c300pm_c300pm_eth_signed_prod.pkg ehpmx_c300pm_eth_signed_prod.pkg
C300 (PCNT05)	Cx-PCNT05	EXP530.1-84.11	NoLoad.bin c300v5_c300v5_eth_ioL_signed_prod.pkg c300v5-hive_c300v5_eth_ioL_signed_prod.pkg
CN100		EXP530.1-84.11	cn100_cn100_eth_ioL_signed_prod.pkg cn100recovery_cn100_eth_ioL_signed_prod.pkg
EHPM		R530.1.0	ehpm.lcf ehpmapp1.pcm ehpmboot1.pcm
EHB		R530.1.0	ehb.lcf ehbapp1.pcm ehbboot1.pcm enim2ehb.lcf
EIM		EXP530.1-84.11	eim61850_eim2_eth_hsrprp_signed_prod.pkg eimeip_eim2_eth_hsrprp_signed_prod.pkg eimpnet_eim2_eth_mrp_signed_prod.pkg

Module	Model number	Firmware version	File
			eimrecovery_eim2_eth_hsrprp_signed_prod.pkg
ELMM		R530.1.0	elmm.lcf elmmapp2.pcm elmmboot2.pcm
ENIM/ENB		R530.1.0	epni2.lcf epni2app1.pcm epni2boot1.pcm
ETN		R530.1.0	etn.lcf ETNapp1.pcm ETNboot1.pcm
FIM		R530.1.0	fimboot.nvs fimboot.pcm fimrex.nvs fimrex.pcm
FIM4		R530.1.0	fim4.lcf fim4app2.pcm fim4app3.pcm fim4app4.pcm fim4boot2.pcm fim4boot3.pcm fim4boot4.pcm
FIM8		R530.1.0	fim8.lcf fim8app2.pcm

Module	Model number	Firmware version	File
			fim8app3.pcm fim8boot2.pcm fim8boot3.pcm
FTEB		R530.1.0	ftebboot.nvs ftebboot.pcm ftebrex.nvs ftebrex.pcm
IOLIM		R530.1.0	iolimapp.nvs iolimapp.pcm iolimboot.nvs iolimboot.pcm
PGM2		R530.1.0	pgm2.lcf pgm2app1.pcm pgm2boot1.pcm
RFIM		EXP530.1-84.0	rfim4app2.pcm rfim4boot2.pcm rfim4app3.pcm rfim4boot3.pcm rfim4app4.pcm rfim4boot4.pcm
Series8IO	AIH1M AIH1MBOOT	FW_1.01	aih_1_01_22.s28 aihboot_1_01_12.s28
UEA (ELCN Bridge)		EXP530.1-84.11	ueaelcn_brg_uea2_fte_signed_prod.pkg

Module	Model number	Firmware version	File
UEA (ELCN Node)		EXP530.1-84.11	ueaelcn_node_uea2_fte_rdn_dL_signed_prod.pkg
UOC		EXP530.1-84.11	uocrecovery_cpm_eth_hsrprp_tracker_signed_prod.pkg uocprocess_cpm_eth_hsrprp_tracker_signed_prod.pkg uocmrp_cpm_eth_mrp_tracker_signed_prod.pkg
UVA (Universal Virtual Appliance)		EXP530.1-84.0	ReadMe.txt

TPN/TPS Software Versions

TPN Software Component Versions

For TPN Compatibility, see the **TPNCompatibility** tab in the latest [Experion Update Matrix](#) spreadsheet.

For full EUCN vs. Experion vs. TPN release compatibility, see the **EUCN_ ELCN** tab in the latest [Experion Update Matrix](#) spreadsheet.

TPS Software Component Versions

Component	Version	Version verification (Only one option is listed)
GUS Display Builder	530.1.65.0.0	<ol style="list-style-type: none"> 1. Choose Honeywell Experion PKS > TPS Applications > GUS Display Builder. 2. Choose Help > About Honeywell GPB.
Native Window	530.1.65.0.0	<ol style="list-style-type: none"> 1. Choose Honeywell Experion PKS > TPS Applications > Native Window. 2. Click Help > About Native Window.
TPN Backup Restore	530.1.18.0.0	<ol style="list-style-type: none"> 1. Choose Honeywell Experion PKS > TPS Applications > TPN Backup-Restore. 2. Choose Help > About...

Component	Version	Version verification (Only one option is listed)
Component Library Editor	530.1.38.0.0	<ol style="list-style-type: none"> 1. Choose Honeywell Experion PKS > TPS Applications > GUS Display Builder Tools > Component Library Editor. 2. Choose Help > About Library Editor.
HOPC Server	530.1.18.0	<ol style="list-style-type: none"> 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.
NWDDDB Server	530.1.38.0	<ol style="list-style-type: none"> 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	530.1.50.0	<ol style="list-style-type: none"> 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	530.1.18.0	<ol style="list-style-type: none"> 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		<ol style="list-style-type: none"> 1. Open Windows Explorer and browse to C:\Program Files\Honeywell\TPS\CLAPPServer\clsrvrdss.exe. 2. Right-click Properties > Details tab and verify File Version.
TPN Server	530.1.68.0	<ol style="list-style-type: none"> 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.

Third party software and operating systems

Experion PKS R530 supports the software and operating systems listed here.

Where available, links to downloads are provided.

Item	Details
Antivirus software	Antivirus software guidelines Antivirus Quick Reference
Microsoft Office	<p>Qualified Microsoft Office products include the following:</p> <ul style="list-style-type: none"> • Microsoft Excel • Microsoft Word • Microsoft PowerPoint • Microsoft Access <p>Any other MS components not mentioned in the list (Outlook, Communicator, and so on.) are not supported.</p> <p>For latest information about the qualified Microsoft Office packages for the Experion products, see Certified Microsoft Office Packages.</p>
Microsoft Security Updates	Honeywell Qualification Matrix Microsoft Security Updates
Client node OS	Microsoft Windows 10 IoT Enterprise 2021 LTSC (x64)
Server node OS	Microsoft Windows Server 2022 Standard
Virtual machine OS	<ul style="list-style-type: none"> • Microsoft Windows Server 2022 Datacenter • Microsoft Windows Server 2022 Standard

NOTE: To review the changes to the Microsoft Windows operating system, security policies, group policies, and audit policies that have been configured as per the Center for Internet Security (CIS) configuration guidelines, see "Security Policies configured as part of the Experion installation" in the *Windows Domain and Workgroup Planning Guide*.

NOTE: eServer Premium Access and RDPWeb are qualified with Windows 11 22H2.

PROBLEMS RESOLVED

In this section:

<i>Installation and Migration fixes</i>	52
<i>Common components fixes</i>	53
<i>Controller and Tools fixes</i>	56
<i>Server and Station fixes</i>	71

This topic lists the problems resolved in Experion PKS R530.

Installation and Migration fixes

This table lists the Installation and Migration fixes applied in Experion PKS R530.

Reference Number	Functional Area	Description
1-FFMD1B9	NamelP Change	The NCT is not changing the SID of the cloned image on the physical system.
1-AQ3K51L	Installation-TPS and GUS	The TPN server's DCOM Launch/activation and access permissions are not hardened.
1-FNE695J	INS-Experion Installer	The Network/SuperV network details must be updated correctly post-migration based on FTE driver data.
1-FNZ79WL	INS-Experion Installer	The OSMig.reg file is not generated by Migration Phase 1
1-FORX5DJ	INS-Experion Installer	Migration of node awaits user interaction post-update step completion in phase 2 and requires a reboot.
1-EPZ1P5V	INS-Experion Installer	EPKS R520.2 does not update common components for non-EPKS nodes.
1-FDE11E3	NamelP Change	No error was shown by NCT when it failed to apply license.
1-EOYCU61	INS-Experion Installer	Installation of R520.2 Updates from ESIS failed because 117GB of disk space was needed.
1-E9ELZUD	INS-Experion Installer	In R520, the optional component 'Diagnostic studio' is not available from the maintenance tool.
1-E9HZROT	NamelP Change	The system cloned and ran NCT not listed in the WSUS server console.
1-E9SIMYL	INS-Experion Installer	When Migration Phase 1 started, the sequencer started but gave the error "Could not find a part of the path".

Reference Number	Functional Area	Description
1-EG67D7D	Installation-Engineering Tools	Install is failing for R520.1 Optional Feature "UOC Bench System" which is used for PLC to UOC Conversion.
1-EGKX08F	INS-Experion Installer	ESIS path change issue during the R520.2 installation.
1-EH7RCZJ	INS-Experion Installer	Users rights are not blocked, and Users are allowed to open Notepad via Windows Start and typing notepad.
1-EHU5DD9	INS-Experion Installer	The installer stops with a 'Sequencer is Already Running' error while running R511.4 ESIS.
1-ENMQGV9	INS-Experion Installer	Experion Install setup file run from DVD is failing to launch the installation process and exiting.
1-FDHKM5H	Server - Installation and Migration	SCADA status point target has corruption after migration.

Common components fixes

This table lists the Common component fixes applied in Experion PKS R530.

Reference Number	Functional Area	Description
1-EOF0D7N	System Management	On Demand Network Scan does not work consistently.
1-ESRGZ47	System Management	Cisco 9200L-48T switches don't report misconfig alarms after initiating network scan.
1-ETFOGXP	System Management	9300-24T switches don't report misconfig alarms after initiating network scan.
1-FDI4PGP	UOC-SERIES-A	Byte Swap issue observed after C200 to UOC (Unit Operations Controller) migration containing Profibus SST Module.

Reference Number	Functional Area	Description
1-EZSUEOM	ELCN Appliance ENIM	ELCN ENIM CPUFREE on the platform block reduced significantly after Experion R520.2 TCU-1 migration.
1-ETKD3UH	TPNServer	EHPM (Enhanced High- Performance Process Manager) Combo Digital inputs are shown as True or False on Alarm Summary instead of State text values.
1-F8U9CHF	EHPM_Tools	EHPM (Enhanced High- Performance Process Manager) Auto import service is not starting after migrating to R520.2 TCU3.
1-FHDL4Z5	ELCN-Bridge	Negative value shown on the ELCN Bridge Cable statistics.
1-E73FX0T	Redirection Manager	SARDM shows warning message for the Experion backup server.
1-FKU9NO5	ELCN-Bridge	After Firmware Flashing, the ELCN Bridge Status Page is not showing ELCN Bridge LCN Node Number.
1-FKLYC25	Experion TPS Applications	Control Builder crashes if the user Launch CL Sequence from the EST node.
1-FQWKOR7	C300PM-Firmware	Backup C300PM failing with OA1E error during OPM (on process migration) from EHPM (Enhanced High- Performance Process Manager) to C300PM in R520.2.
1-FRGIB09	System Management	Migration changes SRP Multicast address to default.
1-EU1YR19	ELCN-System Management	Unable to Launch Visual Studio to edit CL pop for XPM blocks. error pop-ups.
1-9RZ2P8Z	Experion Station-Native Window	The remote native window is not holding the Network name.
1-FBFV8EU	ELCN	UVA/UEA ENIM failed with OPSTAT busy timeout

Reference Number	Functional Area	Description
	Appliance ENIM	during stable run.
1-E6M8BN1	System Management	Bug in the R520 switch tool that prevents 2960+ from being selected as backbone switch.
1-EBCTGK9	Network-FTE	EHPM going to OFFNET when disconnecting / connecting the FTE Crossover Cable.
1-F176EE9	HMIWeb TPN Details	In the DIGCOMP Detail display CONFIG tab, the CRITSCAN should be ON/OFF not True/False.
1-DLAIISN	Experion Station-Faceplate	Panel Navigation featured shape provided on R511 TPS Faceplates overlaps alarm icon & text on FP.
1-ED7DRYN	HMIWeb TPN Details	Calling particular flag array point, shows error on page and station not responding.
1-FBCGKZH	ELCN Appliance EPLCG	ELCN EPLCG slow to process alarms/EIPs with sustained high EVTRATE and no user-visible indication.
1-EV418RQ	Network-Equipment and Support	Classic ENIMs are showing silent against with ELCN bridges, after deploying the new FTE templates.
1-F1GPYZ3	System Management	Network config Load- Validation Failed- Unable to fetch network configuration loaded inside server.
1-EQ31P6V	OPM-Migration Tool	C300PM Freeze and switchover failure is giving junk msg IDC_TEXT_MIGRATE_STEP_3 in dialog box.
1-FD3G41T	OPM-Controller Migration	C200CPM old firmware reported in VER_REV file R5XX, need to check if this can be remove from VER_REV.
1-FGFC8Q9	ELCN-Bridge	If errors exist on both LCN cables the ELCN Bridge experienced a dual primary condition when recover.
RELCNTN-	ELCN_	MAN mode is not listed in the AO point in control

Reference Number	Functional Area	Description
7454	UNIFIED_TOOL	builder monitoring tree.
1-FHCIBAD	ModBus TCP Blocks	PCDI scaling is different in R520.2 TCU3 Vs R430. Impacting permissive values.
1-DWDGZQL	UOC-SERIES-A	After conversion from C200 to UOC Series A IOM's -TC-ODA161 - V2.3 failed to communicate.
1-FW0EOGZ	ModBus TCP Blocks	Not able to download more than 8 PCDI master blocks under ACE in R520.2.
1-B9WSA5L	Experion TPS Infrastructure	Changing the value of Overload Async Action from "Throttle" to "Return Error" under TPN Server > Data Access Options not reflects in the user interface.

Controller and Tools fixes

This table lists the Controller and Tools fixes applied in R530.

Reference Number	Functional Area	Description
RELCNT N-5989	ELCN_UNIFIED_TOOL	The points in the trend are missing point descriptions after ELCN import.
1-CZ28NXD	Fieldbus Interface Module-Series C	The AO block went to 3354 error devices after the FIM2/FIM4 switchover, and all the AO are frozen.
1-DVQZR5R	CF-Control Function	Unable to set XEUHI to zero or a negative value for the SWITCH, FANOUT, OVRDSEL, REMCAS, and REGSUMMER blocks.
1-E2WO60P	CAB-ACERR	ACE Cut over failed: EXPKS_E_FATAL (6L .101.9062) Indirect synchronization failed.
1-EFT8RIP	EIP-COMMUNICATION	EIP process was stuck in an infinite loop after it took over as primary and failed.
1-EXP29ZR	Control Builder	Control Builder application failure during the ACE cutover process.

Reference Number	Functional Area	Description
1- EIJAXGB	EIM - Platform	Incompatible RDN IP address on newer firmware, prevents migration when device index >= 255.
1- EE7WQ7V	C300 Controller	The C300 Module should alarm if the partner has a better view of the network.
1- ES3THSH	CEUOC-Platform	Controller must ensure redundancy-application communication is available for coordination.
1- E2YOI9F	Control Builder-Fieldbus	While importing Rosemount device DD files, the control builder is crashing.
1- DODJI3B	Control Builder-Chart	Moving LOGIC gates (Nothing Loaded) control builder application failure on R511.4.
1- E1066PJ	Experion TPS Engineering Tools	After running the ELCN Database import utility, the Pulse Input channels went to Unassigned.
1- E9QUJJR	Fieldbus Interface Module	Primary FIM8 module failed with error code 00D1.
1- EPF3PIV	Control BuilderLoad/Upload/Update	Yellow triangle appears after upload and update to project while using Projected parameters connection between CMs.
1- EEC79WN	IEC61850_Tools	EIM Config limit issue with ConfRev.
1- EPFOFJT	IEC61850_Embedded	EIM is used as IEC61850, and both ETHports are silent.
1- EU4FJE5	PGM	PROFIBUS Inputs at DSBs are dropped during slave failover.
1-	PGM	PROFIBUS During connection hold time,

Reference Number	Functional Area	Description
EVDYZ2U		trigger an event.
1- EY77YFP	PGM	Profibus Network Freeze on Inputs.
1- F1UVMS7	EIP-COMMUNICATION	The controller does not handle if optional sock address information is not sent by the device in the Forward open response.
1- DRXOS03	Control Builder- Load/Upload/Update	Perform "upload/update to project" operation on a UDT CM which has "Scangrpdtl" or any SCAN resident parameters as template defined.
1- E90AOLH	I/O-Series C	Series C Mark II DC-PDIL51 Module Turns Yellow after a power cycle of the system.
1- EICDGNJ	Control Builder	Not able to load IO Ref due to License error.
1- EX987N7	Control BuilderProfibus	Unable to configure more than 4 PGM connections with C300v5.
1- F8C7O3P	CEUOC-Platform	During initial synchronization, CEP devices get stuck at 12% after a long period of stable drop synchronization.
1- EY2U6ZX	PGM	Unable to configure more than 4 PGM connections with C300v5 (PCNT05).
1- EZD1EMR	Control Builder-Delete	If we delete CM containing Series 8 IO channels, then the deleted channels cannot be reused.
1- F8T3KEM	CDA-Embedded	The single step is not working when jumping from a parallel section to a single section.
1- FAN4FQ1	PDA	PGM PDA buffer leak.
1-	PDA	PIOMB is unable to write to DSB after a

Reference Number	Functional Area	Description
FBBCI1B		communication error.
1- F9PIWDT	Control Builder-Fieldbus	Unable to perform Unlike Template Device Revision Procedure without deleting the CM from monitoring.
1- DQ78POF	Control Builder	Warn user before deleting the ELCN bridge that ELCNB is running with an option to continue or not.
1- EQ4RMYR	CAB-Buildtime	The Change Parent operation will fail when performed on a CAB block throwing error 101.10037.
1- EQ3KNFZ	Control Builder	Control Builder Load Dialog can take very long time.
1- FONHPM9	CF-Control Function	Alarm generated when value is equal to the trip point only when TP value is decimal value.
1- F8X64NR	CEUOC-Platform	The logic to detect DLR ring faults doesn't handle reset correctly.
1- EQ7CO8T	Control Builder-Upload	After performing Upload/ Update operation the RScdasrv is not releasing the memory.
1- EJIU80R	Control Functions - Continuous	LB block in NORSOK library- need to change the description of ENBL_OBXS and ENBL_OBX.
1- EKSWOU3	Control Builder-Change Parent/User Defined Templat	change parent option is not enabled for blocks used CM of UDT after Migration from R510.1 to R511.5.
1- EOST77H	Procedure Explorer	Observed that invalid sequence execution after jump.

Reference Number	Functional Area	Description
1- EQ4AI4F	Control Builder-Fieldbus	Top Worx Fieldbus device Maintenance bits are showing incorrect mapping in Experion Station Alarm.
1- EZRS3C7	PGM	TURCK device took few seconds to get back into data exchange after switchover.
1- F1XHJX3	QVCS For Displays	QVCS change qualification states are not listing post migration to R530.
1- FCJBWHZ	PGM	Input PIOMBs are taking 40 seconds to report Module Failure during Slave failure.
1- EJFCGJV	IXP-Import Export	Issue with PHASE template name while performing Migration was not logged in the logET.
1- ESEJE8J	Control Builder-Automated Device Commissioning	ADC Tool - Not Working with MS Excel 2019 on R520.1 system.
1- F85FARB	Checkpoint	C300 OPM fails with cab blocks.
1- EEDCHDD	CAB-Embedded-Runtime	Secondary C300v5/CEE failed at startup during continuous commanded switchovers.
1- EFB8ZW1	C300v5-Platform	Max (maximum) switchover time goes beyond 500ms on C300v5 commanded switchover with 80IOM/MemLoaded CMs.
1- EZL430J	PGM	PGM automatically switches over once in every 3 days with reason Profibus Driver Ch. Rd fail.
1- EZVZDDP	PROFINET Embedded	EIM with PNET firmware on load to monitoring side is going to FAIL state.
1- F912FC7	EBM-Tools	Formula Para. Min (minimum) Max (maximum) value not editable on SCM after changing in PhaseBlock Type from ENUM to FLOAT.

Reference Number	Functional Area	Description
1-FGSY17N	EBM-Controller	Jump Step executes next expression in current step before jumping.
1-FJAP9Q7	Simulation environments	Sim Interface heap corruption is causing PTS CEE DCS Adapter to fail during a snapshot save command.
1-FJYU6IJ	PROFINET Tools	Loading Turck device with 5 submodules causing submodules to show bad status.
1-FD7ZGLT	CEE-Database	CB allowed PIOMB to download to vUOC which is not supported and causing it to crash during download.
1-EL36APU	CDA-Control Data Access	Permanent data freeze on switchover when we exceed cyclic XL reqs on ACE (degrade to acyclic).
1-FH2CI6P	Simulation environments	Avoid skipping certificate validation when attached with procdump.
1-FFXSFE1	Simulation environments	Loading of Experion CEE model fails throws "InitializeCdaConnection: Error creating a CDA Component".
RELCNT N-6184	ELCN TNodes	ELCN T-nodes stuck at LOC_LOAD on machine reboot.
RELCNT N-7443	ELCN TNodes	When the HPM CL is opened from CB, an exception error is displayed.
RELCNT N-7455	ELCN_UNIFIED_TOOL	MAN mode is not listed in the AO point in control builder monitoring tree.
1-D6FS4SH	Profibus Interface Modules	PGM is sending wrong configuration data.
1-DLDFJN7	EBM-Tools	SAMServ should be able to stop without exceptions causing dump files.

Reference Number	Functional Area	Description
1- E3D1L31	GCL	HCA CDA P2P Initiator to ACE is not working (configured with Floating IP used in ACE-RR).
1- EQ314TJ	Detail Displays	PNTTYPE parameter unavailable on digital input and digital output points on UOC IO.
1- FH01R9H	PROFINET Embedded	[DEV][E+H] - During DR switchover EIM loose connection to device.
1- E3AZHBB	EBM-Tools	Data Block: load from monitoring updates min/max range in controller though SPV table has old values.
1- E49FELT	Series C Universal IO Modules	When the PVSOURCE is changed from AUTO to MANUAL, PvStatus is not changed from Normal to Manual.
1- FHCGLF5	CE900-IO	Multiple CE900 Remote IO Racks can be configured in UOC and loaded with same Rack number.
1- E8ACSQ3	Control Builder-Batch	Procedure Explorer shows Fail To Read Activity for specific Formula parameter.
1- FH65MAL	System Repository	SMSC COM points appear in the Experion Server as "UNASSIGNED ITEMS".
1- FHCXNMT	System Repository	System Repository sync issue after Experion R520 migration when using special characters.
1- FIDOASX	PDA	PDABUFFERINUSE full and existed over 256 limit's.
1- A9AKF9D	Control Builder-Load/Upload/Update	Hart device down load always shows the Mismatch for the parameter "HDVMFGCD7" in PCR page.
1-	PROFINET Embedded	The UOC's profinet application to not burst

Reference Number	Functional Area	Description
FG3UYBN		write to the controller logs and log burst causing LOC.
1- FH3SB1L	Control Builder	PERIOD can't be changed for templates (SCM, RCM,MR).
1- AOL2BH0	Control Builder	Duplicate entry is seen for batch preferences which causes ER-SR sync issues.
1- FKK7NID	PROFINET Embedded	On removal of output IO module from TURCK and DR EIM fails.
1- E5MJP5B	Control Builder	FF DD's which are downloaded from FCG does not get imported successfully in Experion PKS System.
1- FCPMM1 E	Control Builder	BaselP updates automatically even when Controllers are loaded.
1- FFFT5LT	Control Builder	Opening of IOM properties in Control Builder is slow.
1- B08DUL1	ReferenceBlock-Tools	Reference is disappeared in reference block when reference block name is same as channel name.
1- CPCK2LP	EIP-Tools	If the Rs logix configured with the Alias then the control logix block is not browsing all the tags.
1- CPEMTD1	EIP-Tools	EIP devices Control Builder forms with FLOATVALUE function.
1- DBQYJ1R	Control Builder	Templates can be copied to other templates which are checked-in in QVCS.
1-	Control Builder-	The additional point license is getting

Reference Number	Functional Area	Description
FD8QKS7	Load/Upload/Update	consumed and when channels goes to Not Loaded state.
1- FFBT06P	CAB-Runtime	Add Additional logging for Uncommanded Shutdown of Multiple ACE.
1- FLGFXQV	Series C Universal IO Modules	UIO-2 is generating alarm Device range mismatch when channel PV characterization to system Range.
1- DJQCCHF	Control Builder	PV ranges not update after reload a CM when unchecked HDVMFGCD7 parameter checkbox at PCR.
1- AMBCECZ	EIP-Tools	BW-35013 Unable to create an instance of the type after changing parameter names.
1- COWZUO3	ReferenceBlock-Tools	IOREF allows UOC DO 24VDC 32 channel be configured as ONPULSE and OFFPULSE.
1- E7UX6XN	Procedure Explorer	Large blank gaps in Procedure Explorer's Chart view.
1- E8BYFI3	Control Builder- Load/Upload/Update	CM load is falling with Error (6L .101.10124) after deleting text comment blocks and upload/update.
1- EN2E3LR	Control Builder	Unable to edit HSLOTDSC[5] to HSLOTDSC [8] for HART7 device at both CB-Project and Monitoring.
1- FKIHTVB	Series C Universal IO Modules	UIO-2 AI PV range check is being applied after the PV filter.
1- FKQ9HE5	Control Builder	C300 OPM fails with ClusterID: range or limit exceeded error from R520.1base to R520.1TCU5 B2.
1-	Control Builder	Unable to expand IOM tree under IOC IO

Reference Number	Functional Area	Description
E8V45N9		Rack due to duplicate IO Rack name with block name inside CM.
1- F31LSC1	Control Builder-Browser	Running multiple Searches the Experion PKS Browser Orchestration service Hangs.
1- FFQD0DT	Procedure Explorer	PE Details input selections become misaligned when there are several conditions/outputs.
1- DDEUN35	Control Builder	Optimize database queries to improve Control Builder performance.
1- EDCN081	Control Builder-Browser	Online Data Search does not read the following parameters: CMDDISALM.TM [0],CMDDISALM.TM[1].
1- FNWON3V	Enterprise Model Builder	When downloading assets/alarm groups in multiple servers from common EMDB, then it gives error.
1- FO2ICIH	Control Builder	Control builder application failure while using point picker selection FF blocks / parameters.
1- DJ6RSN5	Control Builder	STATETEXT fields within CM blocks are being automatically populated, when "Load while Active".
1- DP6C4JR	Control Builder	License miscounts for Composite Device points with CLX block.
1- EZQLFHX	Procedure Explorer	Procedure Explorer blocks Transition Bypass in RCM Running as Activity in R511.5.
1- 9NTUVUT	System Repository	Instruction text does not get loaded to controller if OP.INSTRUCTION is template defined.

Reference Number	Functional Area	Description
1- CSABUPY	Control Builder	Control Builder may not show order in CM on the FB - System Preference locking issue.
1- CY2U6CP	Control Builder-Copy Paste	Unable to modify block specific Parameters after Copy Paste blocks from UDT instance CM on to another CM.
1- CN761RZ	FF Interface Modules	BACKUP FIM Failure not reported until fail over causing LOC/LOV - BCKUP FIM4 Did not drop SYNC (synchronize).
1- DU0I1WR	Control Builder-Automated Device Commissioning	Account to do ADC must be explicitly assigned into Local Engineer group.
1- DXVTER2	I/O-Series C	When Series C IOM firmware are not at same level as C300 'Syncd SlotChkPnt', etc flood CAP logs.
1- FGE0HM7	Experion TPS Engineering Tools	Upload/update for SIALGID(7) and SIDLYTIM(7) in the DEV CTL point in EHPM does not work.
1- E9FESJ7	PROFINET Tools	Stahl CPU9442 load fails with config size exceeding 5KB but no error for exceed limit.
1- ELCYAFJ	CF-Control Function	Incorporate Message block review findings. Refer Engineering notes
1- BOAW4DL	EBM-Tools	System should not check Min Max range for ENUM data types configured in Recipe step/ data block.
1- BXESCUX	System Repository	Activating Migration results in failure between ACE and A-Server & resulted in CAB-Dyna re ref to FAIL.
1- C7AT7E7	EBM-Tools	Copy and Paste of entire Step block having expressions inside an MRT fails if instances exist.

Reference Number	Functional Area	Description
1- DNJBNVL	EBM-Controller	EBM Jumping between phases with check handlers causes issues with arbitration.
1- E31NYGZ	CCL	UGM function block alarms not sent to alarm summary as expected.
1- E68AW33	Control Builder-Batch	System Repository was not able to connect to the Server Activity Manager (SAM).
1- F1LUR1V	Procedure Explorer	Singlestep in PE blocks subsequently Step and Transition Details in PE.
1- F6EM923	EIP-CEE-EMBEDDED	Unaligned 32-bit decoding in EIP.
1- FH88G11	EBM-Controller	Unit acquired in Aborting State is not released at the end.
RELCNT N-7454	ELCN_UNIFIED_TOOL	MAN mode is not listed in the AO point in control builder monitoring tree.
1-EZSV0I5	Control Builder-Batch	Parameter description in data block and batch summary is mismatched after change parent for MR.
1- EN2VKA9	Control Functions - Batch	Batch Stuck in HOLDING/ABORTING state.
1- ECT7WWA	Procedure Explorer	Jump function within nested sync block doesn't propagate single step state to few of its phase.
1- DWLDF7S	Control Functions - Batch	System does not prevent mismatched data types in formula parameter transfers.
1-FPIF8J1	EBM-Tools	"Load while Active" is not working on SCM modules when going through Chart.
RELCN- 3977	ELCN_Appliance_ENIM	Observed around 10 percent of CPUFREE drop for UEA ENIM (Enhanced Network Interface Module) after the migration.

Reference Number	Functional Area	Description								
		<div><p>NOTE: The calculation of the Native Window CPUFREE parameter has been changed for all ELCN nodes running on the UEA and UVA platforms (ELCN AM, ENIM, EHB, EPLCG, and NG). Because of the differing CPU architectures on the UEA and UVA platforms, the calculations of Native Window CPUFREE have to be adjusted to make the value more compatible with the ELCN node platform.</p><p>Since the calculation has changed, do not compare the Native Window CPUFREE parameter while migrating to R530. After migration, if CPUFREE % is dropped more than 20%, contact GTAC for support.</p></div>								
REUCN-7415	EHPM/EHPMX/C300PM	<p>Unable to fetch HART Array parameters on AI and AO 7415 channel block.</p> <p>HART IOPs with the below minimum firmware revision and minimum hardware revision support HART dynamic and device variables. It is recommended to replace the IOPs with minimum HWR(hardware) and minimum FWR (firmware) (both IOPs if redundant) before using the HART dynamic and device variables.</p> <table><tr><th>Module</th><th>Model Number</th><th>Minimum HWR (hardware)</th><th>Minimum FWR (firmware)</th></tr><tr><td>HLAI-H</td><td>MC-PHAIOL</td><td>1A</td><td>08.00</td></tr></table>	Module	Model Number	Minimum HWR (hardware)	Minimum FWR (firmware)	HLAI-H	MC-PHAIOL	1A	08.00
Module	Model Number	Minimum HWR (hardware)	Minimum FWR (firmware)							
HLAI-H	MC-PHAIOL	1A	08.00							

Reference Number	Functional Area	Description			
		Module	Model Number	Minimum HWR (hardware)	Minimum FWR (firmware)
		A016-H	MC-PHA001	1B	04.06
1- CI3DX3K	OPM-Upgrade Tool	Controller “Migration readiness check” tool is taking longer time to show the results.			
1- 98FOBUJ	PGM Hardware	PGM redundant pair transmits corrupt frames is setup with line redundancy using RLM.			
1- FUDHMBN	PGM	PDC channel status is not going to Bad on Profibus Field Network Failure.			
RELCNT N-5989	ELCN_UNIFIED_TOOL	After ELCN import the points in trend are missing point descriptions.			
RELCNT N-6184	ELCN TNodes	ELCN T-nodes stuck at LOC_LOAD on machine reboot.			
RELCNT N-7443	ELCN TNodes	When the HPM CL is opened from CB, an exception error is displayed.			
RELCNT N-7455	ELCN_UNIFIED_TOOL	MAN mode is not listed in the AO point in the control builder monitoring tree.			
1- BALRZR7	CEE-Database	PCMNUMBER of a controller must be updatable only during load [C300v3/PGM].			
1- DLDFJN7	EBM-Tools	SAMServ should be able to stop without exceptions causing dump files.			
1- FCPMM1E	Control Builder	BaselP updates automatically even when Controllers are loaded.			

Reference Number	Functional Area	Description
1- EY1SEIR	Control Builder-Chart	CM takes a long time to open with heavily loaded function blocks and cross-references in EPKS R511.5.
1- FBIOMNX	Experion TPS Engineering Tools	Enable the delete option for EHPM points when they are active.
1- D508RRH	PROFINET Tools	A loaded PN device in comm error does not become inactive on clicking toggle state icon.
1- E53PHH5	Control Builder- Automated Device Commissioning	STAC_MEDE having an issue identifying bad values for double-precision values read from the system.
1- DI8BC1X	Control Builder	Access Level Supervisor can modify custom block types in the library despite being denied.
1- EYNZOJH	ReferenceBlock-Tools	Output channels of one C300 can be assigned and loaded to different C300 controller.
1- CUNNOJZ	PROFINET Tools	Existing UDS replaced submodules does not have diag tab.
1- DMKZGHX	QVCS	QVCS compares works illogically from the end user's point of view in newer EPKS releases.
1- DTE0FPV	Control Builder-Listview	Control Builder Gives Error When Adding An Additional Column In List View "Listview interface error.
1- E3UKQ1U	Control Firewall 9Port	CN100 under CF9 permanently goes offline after cross-cable fault recovery.
1- EB3TIOB	Control Builder	Export of the model from PSES to PC block is failing with an error.
1- FADWBZX	Control Builder	12:00:00 AM cannot display on block faceplate with TIMEOFDAY parameter

Reference Number	Functional Area	Description
		defined.
1- DUQ1FG5	CDA-Embedded	Transient loss of peerdata (WholeArray, Fetch)on switchover when cyclic XL reqs exceed (double sub).
1- DKX2IGJ	SCM-Sequential Control Module	Main handler in SCM is not invoked even when dynamic fetch is enabled.
1- FJJVDN1	Control Builder-Chart	Crtl click navigation from expressions in scm does not work when the tagname reference is cut off.
1- EVO20NV	Server - Alarm/event	Event synchronizing issue with the Global Event Server.
1- FWPPZNL	EBM-Controller	Not enabled string report parameter in RecipeStep can cause memory corruption during OPM (F&S).
1- EZV4KQ1	Profibus Interface Modules	HCA/C300v5/PGM PDA connections won't clear, after deletion of PIOMB's from monitoring.
1- GOGKWBR	CE900-IO	EPM Rack reported No Response for 5 sec and RTN which resulted in LOC.
1- EWH2JKL	EBM-Controller	CEE batch event recovery should include failure detection to avoid batch event flooding.

Server and Station fixes

This table lists the Server and Station fixes applied in Experion PKS R530.

Reference Number	Functional Area	Description
1-E2TQLXV	Server - Display	In message windows, names are displayed

Reference Number	Functional Area	Description
	Subsystem	incorrectly if an underscore is included. The display name is displayed without an underscore.
1-E9FAOZC	Server - DSA and Point Servers	The batch activity summary is not consistent between DSA-connected clusters.
1-EU06F8J	EBM-Server/Station	Clicking on a batch from the Experion batch summary display occasionally gives a script error popup.
1-F1P2QMZ	Server - Other or unknown	Resource usage of Activity Manager can increase when using the batch API getActivityEntityList function, which will eventually cause applications to not be able to fetch data from Experion.
1-FBV1YXJ	Server - Batch Unit Timeline	High SQL Server query load when doing CDA event recoveries can cause unwanted server failovers.
1-E2V9T9R	Server - Alarm/event	Batch Alarms/Messages raised by top-level activities are raised with an incorrect asset and are therefore seen on Console Stations with different Scope of Responsibility configured.
1-E7KFUMD	Server - Batch Unit Timeline	MES connections to Experion via the API can stop working after a few months of run time.
1-DLAT529	Server - Console Station	Console Station fails to synchronise with Cluster Server with a Backup Control Center license.
1-E3CKAGD	Detail Displays	Series A 16 channel DI and DO point detail display is displaying 8 input/output LEDs instead of 16.
1-DXZXCT1	Server - Scanning Subsystem	Provide the ability to ignore the value over-range status sent by an RTU over DNP3.
1-DTZVPL7	Server - Display Subsystem	When selecting a tag name from the station search list the search box may populate with unexpected characters.

Reference Number	Functional Area	Description
1-EDCV4JD	Server - Display Subsystem	In rare circumstances, all flex stations may disconnect then reconnect.
1-DXERIV5	Server - Other or unknown	Point back build doesn't include the servername in the source address when a point references a DSA point.
1-DMPESD1	Server - Scanning Subsystem	Maximum number of addresses exceeded when downloading point.
1-EGEPCYV	Server - Alarm/event	Roll ID and Recipe values are not displayed in Event Summary.
1-DFJ33Y9	Server - DSA and Point Servers	Alarm Limit data does not appear when exporting event summary.
1-F204VLX	Server - DSA and Point Servers	When DSA configuration is done using Advanced security, the backup server on DSA connection page of the subscriber shows Unused.
1-FB7PW2Y	Server - DSA and Point Servers	Due to security changes in Experion R520 DSA doesn't work with Network Address Translation using public IP address.
1-DTU47Q7	Server - DSA and Point Servers	Operator name does not present in DSA operator change events if an account is used with a blank full name and "Show operators full name in the event summary" option is checked.
1-FBVOABJ	Server - DSA and Point Servers	The descriptions of container point contained DSA points are sometimes shown as blank on a console station.
1-EOAL8PN	Server - History/trending	Exception history subsystem should correct database inconsistencies to ensure correct history is reported.
1-DZ4MNJF	Server - History/trending	Hstdiag utility does not report the correct point count for exception history configuration.
1-FBHUXF5	Server -	PHD can fall behind when reading one second

Reference Number	Functional Area	Description
	History/trending	fast history with a large number of point parameters assigned.
1-F17BOXJ	Server - Scanning Subsystem	"Inconsistent request" error message appears when changing the MODE of a point for Hitachi PLC.
1-E6060WT	IEC61850 interface	Alarm Summary Live Value column does not update after alarm returns to normal for Status point types.
1-DYFJ41F	IEC61850 interface	Customers not using IEC61850 may experience network traffic due to port blockages.
1-DBJ9YDH	IEC61850 interface	Reports data is not updated properly in Experion if multilevel parameters are configured in a Dataset.
1-COV3SCV	IEC870_Interface	IEC870 communication freeze over time when continuous writes happen.
1-EKYX8BV	IEC870_Interface	IEC Synchronization - Sync tool fails to synchronize the PointConfigCache table.
1-AUEKVWJ	IEC870_Interface	Unable to Write Point Values to the IEC-870 system when the CDA controller execution period is set to 2 seconds.
1-EV6EKN3	IEC870_Interface	Observed data freeze with Experion IEC 60870-104 interface approximately after 50 days of running.
1-CKUIFSX	IEC870_Interface	IEC870 synchronization Utility fails to synchronize the IEC870PSDB database.
1-EEE0EQ9	Server - License Management	Sometimes it is not possible to change the license via Config Studio.
1-DT3I4R7	Server - Scanning Subsystem	On Modbus SCADA Interface some parameter value changes may not be processed for scanned addresses with 64bit data formats.
1-EJSIJHM	Server - SCADA	MQTT can lose backfill data if an EON

Reference Number	Functional Area	Description
	Interfaces	reconnects to the broker after a disconnect.
1-EVS9YEB	Server - other or unknown	Network API writes via UDP may fail on a client's first write.
1-DK02M8V	Server - Alarm/event	"Field time" values are not displayed in SOE summary and in the exported CSV.
1-FA95SP9	Server - Alarm/event	After migration to Experion R520 in rare cases some SCADA point alarms have no description in alarm summary.
1-EPFL533	Server - Alarm/event	Alarm icon bound to C300 "flaga.INALT" parameter will not show the alert if active.
1-F4JFQSJ	Server - Alarm/event	In rare scenarios, Notification Manager may stop updating the Alarm Summary when an event is processed.
1-F15HNUV	Server - Alarm/event	Export to CSV from process summary fails when live column is Empty.
1-E8EOSGZ	Server - Alarm/event	When performing jump operations from Procedure Explorer, the initial step and final step do not get recorded.
1-EPA2MAD	Server - Alarm/event	Console Stations print duplicate or multiple instances of alarms of CDA points to Windows printer.
1-ENUQ3CX	Server - Displays - General	Script error popup appears on Alarm Shelving dialog.
1-EJXNAHF	Server - ODBC Driver	ODBC driver read from standard history can fail to return the upper time limit value.
1-EGKYZM5	Server - ODBC Driver	Unable to initiate Procedure Analyst event recovery if large Experion event archives have been restored.
1-EFRPK9V	Server - Alarm/event	TPS alarm in the alarm list can prevent the ODBC Driver Alarm Table from being queried.

Reference Number	Functional Area	Description
1-F1ZBLQF	Server - ODBC Driver	Receive error querying Event2 table using EventID > function if querying account is not mngr security level.
1-EM2BM7D	Server - ODBC Driver	ODBC Driver is not able to provide three decimals values for alarm limits.
1-F1ZCRPL	Server - ODBC Driver	Query to FlexiblePoint table will not return if the highest point in tag cache is a discovered DSA point.
1-DRYKAWP	Server - OPC clients and servers	OPC Status points when using non-consecutive bits stay inverse after server failover.
1-DV2AG1X	Server - OPC clients and servers	Some OPC Status points when using non consecutive bits stay inverse after the channel returns to in service.
1-DY3SJ4F	Server - OPC clients and servers	OPC Client not able to access PVStatus parameter from Experion OPC Server.
1-ELFVQEZ	Server - OPC clients and servers	The Experion OPC HDA server may occasionally stop sending history data for a small number of point parameters. To recover the OPC HDA client must resubscribe to the point parameters.
1-DYNS7ID	Server - History/trending	PHD history can fall behind Experion history if collecting a large number of point parameters on one second fast history.
1-EEORH41	Server - SCADA Interfaces	Duplicated system alarms may be raised for Rack or Module faults for integrated ControlEdge PLC.
1-DR3MB19	Server - OPC clients and servers	Certificates generated for use by Experion OPC UA Client Interface may be rejected by OPC UA Servers.
1-EV626Q1	Server - OPC UA Server	Experion OPC UA Server should use ValueRank to indicate to an OPC UA client whether the

Reference Number	Functional Area	Description
		value is Scalar or Array.
EXPD-782	Server - Operational Applications	If the pipeline linepack decreases the linepack delta value displayed in the segment summary will not update and will show an incorrect value.
1-E35PDHT	Server - Operational Applications	Batch tracking on a single product pipeline is calculating the batch interface location incorrectly.
1-FAVAYSH	Server - Batch Unit Timeline	Electronic Signature OK and Cancel Buttons borders are cut off.
1-DYH932X	Server - Operator Security	APS config download to the server from Flex Stations often fails to apply new settings.
1-DYH933C	Server - Operator Security	If an Advanced Parameter Security custom Parameter Security Level is in use, removing it and downloading will break the Server synchronization.
1-E7ZCOL5	Server - Operator Security	Electronic Signature events record the time the events are raised rather than the time each signature is signed.
1-DPC19QF	Server - History/trending	Experion standard trend issues during daylight savings changeover when data is retrieved from PHD.
1-EN2F011	Server - Redundancy	Server peer version mismatch alarm raised on server failover or restart may sometimes not clear.
1-EBA2P77	Server - Reports	On a heavily loaded system with a large number of Alarm and Event DSA reports being triggered a report occasionally fails.
1-DSM2R0J	Server - Reports	In rare cases, the DSA Alarm and Event Report may fail if the report includes a DSA node.
1-DSHJDG5	Server - Reports	DSA Alarm and Event Report may fail if the operator configured is part of a group rather

Reference Number	Functional Area	Description
		than being created as an individual operator in the Experion operator configuration display.
1-DTMVXJ9	Server - SCADA Interfaces	Operator is unable to change the mode to CAS for analog points configured on enron modbus/opc ua/fisher roc controller type.
1-D2EX6S5	Server - SCADA Interfaces	Configuring Algo 68 on interfaces such as Enron Modbus/OPC UA/Fisher ROC/ABB TotalFlow can cause the channel to become overloaded.
1-DN502WL	PS Server/Station	Periodic scripts will not fire at the expected times after a server failover.
1-E7EY5S9	Server - Operator Security	Advanced parameter security is not working for EHPM combopoint parameters.
1-EELY3GT	Server - Universal Transport Service	The monitoring view in Control Builder may show all ELCN nodes (such as EHPM and C300PM) with red status if a domain user has had their account added directly to a local windows group.
1-D9Y9S5D	HMIWeb Display Builder	A toolbar may be incorrectly shown on an embedded chart when 'Show Chart toolbar' is set to false.
1-C2T68GX	Configuration Studio	"DateModified" column field is missing from columns organizer.
1-EUJ4PVD	HMIWeb Station	CapsLock and NumLock keys on the local system may sometimes be out-of-sync with remote PC connected with Honeywell KVM Client.
1-EC7OSU1	HMIWeb Station - Display Elements	When set to "duration", alphanumeric will not show space between days and hours.
1-DJMYITV	HMIWeb Station	Display script errors may occur or display events may not fire on a HMIWeb display if a web page application is open in another window in multi-

Reference Number	Functional Area	Description
		window Station.
1-EDNRYT1	HMIWeb Station - General	MODEATTR Dropdown menu may take a long time to respond in Batch Summary when loaded on the Operator Touch Panel.
1-D6EOPEF	HMIWeb Station - General	Disconnect and cleanup the data source for a ProcOps Toolkit control display if the display is closed unexpectedly.
1-DYUWR4V	HMIWeb Station	Station application error may occur when using electronic signature.
1-DXYOJ4D	HMIWeb Station - General	Provide a Station setting that controls how long display content can be non-responsive before Station recovers the display.
1-BMNFV5J	HMIWeb Station	Event summary reports excessively large call-up times for displays loaded in the Station.
1-DM87FNX	HMIWeb Station	Multiwindow Station fails to connect when the workspace has four command windows configured.
1-BX3JOA5	HMIWeb Station	May not be able to select the "Yes" button on a Yes/No callout.
1-F1KJDL7	HMIWeb Station - Trend	Occasionally point parameter drop-down may not be available in Trend legend.
1-DS1BMKW	HMIWeb Station	Trend may plot incorrect data after scrolling operations with the pen disabled.
1-D87XWK3	HMIWeb Station	Period and sampling interval comboboxes are not visible on trends smaller than a certain size.
1-EMZYPTH	HMIWeb Station	Faceplate sysdtl9PortsSwitcha_fp.htm sometimes fails to show the port status LEDs.
1-ECTNVD1	HMIWeb Station	Equipment tree view selections are incorrectly persisted when using the "root" button.

Reference Number	Functional Area	Description
1-EO8XSAZ	HMIWeb Station - General	On eServer Premium Access, the trend number can't be changed using the title dropdown control.
1-E7BQM01	Server - Alarm/event	Station alarm bar can occasionally fail to show the color of the highest priority alarm within SOR.
1-ERVGBWZ	HMIWeb Station - Operator Touch Panel	Right-click on the Raise/Lower Touch Panel buttons binds the left-click to the raise-lower operation.
1-EPYK93B	HMIWeb Station - Operator Touch Panel	Back button gets hidden when a favourites item is deleted from the Touch Panel list.
1-EH8HL6N	HMIWeb Station	Displays loaded on the Operator Touch Panel may appear truncated if the Always On Top setting is used for faceplates in the SafeView workspace.
1-EH8HL6Y	HMIWeb Station	Pan and Zoom displays scrolls to top-left when changing a combo-box value.
1-DLU9N1J	HMIWeb Station	Launching a faceplate in a popup window in multi-window Station may show a popup that is slightly shrunk, depending on the zoom level of the parent display.
1-EBMNXXP	HMIWeb Station	DataChanged method may incorrectly return "false" when value transitions from and to NAN for a TPS point.
1-E071NGF	HMIWeb Station	Duplicate tabs may be shown for a single display.
EXPD-1109	Notification Management	If a customer has a large number of active and suppressed alarms, during start up alarm processing will be delayed for a few minutes.
EXPD-1263	Batch Historian and Reporting	Batch Historian is incorrectly populating the value field of prochis table for phase and step

Reference Number	Functional Area	Description
		start stop events.
EXPD-1387	Notification Management	DVM video link not working from alarm summary but it works on event summary in station.
EXPD-671	GDA - Points	In rare circumstances increased resource usage of the DSA link process can cause unwanted server failover.
EXPD-1027	SCADA Scanning	Enron Modbus points continuously triggering alarming and flooding event journal when alarm limit is read from controller.
1-F1TO2T1	Server - other or unknown	The server log shows an unwanted message from nifd every time napicmd is called.
1-EV7T721	Server - OPC clients and servers	HscOpcSvr service reporting high memory on EPKS Servers.
1-DVYYOYJ	Detail Displays	The alarm Bar in faceplates does not reflect the Critical Alarm priority color.
1-EX58PT5	Detail Displays	1second update rate not available on Loop Tune (SYSDTLPIDB.HTM) of Point Detail.
1-EQ8SXU7	Server - Alarm/event	The console station failed because of some invalid data received from the client (station).

KNOWN ISSUES

In this section:

<i>Installation and Migration Known Issues</i>	83
<i>Common Components Known Issues</i>	84
<i>Controllers and Tools Known Issues</i>	93
<i>Server and Station Known Issues</i>	117

This table lists the issues found in Experion PKS R530.

Installation and Migration Known Issues

This table lists the Installation and Migration issues found in R530.

Reference Number	Functional Area	Description
1-D46EPNL	OPM-Migration Tool	<p>Error Indication: During Experion ServerB node migration, “Restore Control Strategies” step fails with “There is no enough disk space” error message.</p> <p>Description: Due to insufficient disk space, migration fails.</p> <p>Recovery:</p> <p>Perform the following procedure:</p> <ol style="list-style-type: none"> 1. Acknowledge the error and exit the 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:\Programdata\Honeywell\Experion PKS\PatchDB*.bak files. These files can be deleted to create free disk space. 4. Resume the migration. <p>Workaround: Same as recovery.</p>
1-G11BDU9	OPM-Migration Tool	<p>Error indication: C300v3 Firmwares are not backed up by Firmware Migration Plugin in certain conditions.</p> <p>Description: C300v3 controller firmware is not backed up and restored by Firmware Migration plugin during on process migration in specific scenarios as explained below .</p> <p>Scenario1: If user has only C300V3 controller in source setup without having any other personalities of C300 such as V2 or V3E in that same setup.</p>

Reference Number	Functional Area	Description
		<p>Scenario2: If C300v3 controller in source setup is having different Firmware version with respect to other C300V2 or C300V3E controllers available in that same setup.</p> <p>Recovery: User can install the source release firmware of C300V3 using Firmware Installer Tool available in Honeywell.Process.com site and proceed with the C300V3 controller migration.</p> <p>Workaround: User can install the source release firmware of C300V3 using Firmware Installer Tool available in Honeywell.Process.com site and proceed with the C300V3 controller migration.</p>

Common Components Known Issues

This table lists the Common component issues found in R530.

Reference Number	Functional Area	Description
1-D36LQ8J	UOC SERIES- A	<p>Error Indication: Echoback Value for TCFOD161 and open wire fault for TC-FOA041 does not work properly on Ethernet only topology.</p> <p>Description: Echoback Value for TCFOD161 and open wire fault for TCTCFOA041 does not work properly on Ethernet topology.</p> <p>Recovery: None.</p> <p>Workaround: None.</p>
1-DJ8E0QL	System Management	<p>Error Indication: Interface A SILENT alarm from C300, FTEB (Fault Tolerant Ethernet Bridge), and Console node does not return after Uplink Cable fault test.</p>

Reference Number	Functional Area	Description
		<p>Description: Post stability of R511.4, during various fault test in system, 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 Return to Normal.</p> <p>Recovery: None.</p> <p>Workaround: Perform Server Wide alarm Disable/Enable to clear alarms from System.</p>
1-DU7T5Z7	ELCN-TNode	<p>Error Indication: Invalid file extension error message "FILENAME.EXT" appears or The error "failed to build EC (Extended Controller) files for Entities" is seen while loading new EHPM points.</p> <p>Description: Honeywell FileTransfer utility, do not support file copy operation and shows an error message "Invalid File Extension FILENAME.EXT" on a migrated TPS node.</p> <p>Recovery: None.</p> <p>Workaround: Perform the following workaround after completing migration for the first time:</p> <ol style="list-style-type: none"> 1. Open "Configuration Utility" Application. 2. Go to "Configure" tab. 3. Select "File Transfer" page and click "OK."

Reference Number	Functional Area	Description
1-FNU1CJB	INS-EXPPLUS INIT Media	<p>Error Indication: When making an RDP connection and using a vmware console connection to Experion nodes in parallel, may face the following RDP Error "Your Remote Desktop Services session has ended..." with error code 0x3, Extended error. code 0x12</p> <p>Description: This issue is found when connecting to the Experion node using both RDP connection and vmware console connection multiple times over a period of time.</p> <p>Recovery: Connect to vmware console and perform log-off and log-on operations. This should resolve the issue and should be able to make RDP connections successfully.</p> <p>Workaround: Same as recovery.</p>
1-FL6LSLJ	Network-FTE	<p>Error Indication: FTE device (node name) is disconnected from the FTE community and there is no alarm indication. FTE device (node name) interfaces both A and B status are silent.</p> <p>Description: In rare cases, an FTE alarm may be observed in a station where the FTE cable is disconnected from the community, even when there is no disconnect in the physical or virtual FTE cables. The FTE Reports Disjoined alarm indicates that the cable has been disconnected from the network but it automatically returns within 1-30 seconds. This scenario is only seen in a multi-cluster environment.</p>

Reference Number	Functional Area	Description
		<p>Recovery: None.</p> <p>Workaround: None.</p>
1-E6KXAVH	CEP-Network-FTE	<p>Error Indication: Situation occurs when a controller in a duplicate state is disconnected on the network and then reconnected to the network with the green cable first.</p> <p>Description: The boot state of the controller allows the controller to bypass the duplicate IP check when the green cable is plugged in first. This state only checks for IP address duplication on the yellow adapter currently. By taking a duplicate IP address on the network, it interferes with other controllers.</p> <p>Recovery: Remove the duplicate controller from the network and fix the duplication error before reconnecting the controller to the network.</p> <p>Workaround: The only work around for this issue is to not allow the green connection to occur first when reconnecting the controller to the network. However, since this is a testable item, the workaround does not work with the test itself.</p>
1-E73FLUB	CEP-Network-PRP	<p>Error Indication: PRP Capable controllers do not have an alarm in station when a fault occurs on IO or HIVE vlan.</p> <p>Description: PRP inherently does not have the ability to track which node on the network is have a communication fault.</p>

Reference Number	Functional Area	Description
		<p>Recovery: None.</p> <p>Workaround: Each PRP capable controller has a journal entry that will state when a PRP fault occurs. This entry is written to the eventlog that can be collected via Diagnostic Capture.</p>
1-FH13DCF	CEP-Network-FTE	<p>Error Indication: T2 Loop test caused HIVE traffic to overflow Quality of Service Buffers.</p> <p>Description: Control HIVE VLAN marks packets within a certain TCP port range with a DSCP value that targets a specific queue in the QoS of a networking switch. Windows nodes will at times use the same TCP port range as Control HIVE and overflow the QoS buffers for that specific queue causing traffic to drop.</p> <p>Recovery: None.</p> <p>Workaround: New switch templates for IO and HIVE implementation have been released to fix the QoS settings so Windows nodes will no longer disrupt HIVE traffic.</p>
1-FYAD469	CEP-Network-FTE	<p>Error Indication: Situation occurs with single attached nodes, such as PCDI devices, after crossover cable has been disconnected.</p> <p>Description: C300v5 will lose communication with backup PCDI device after crossover cable is disconnected. The controller will switch to the green PCDI device only if the yellow cable is disconnected.</p>

Reference Number	Functional Area	Description
		<p>Recovery: Restore crossover connection.</p> <p>Workaround: NA.</p>
1-FT8ERDZ	System Management	<p>Error Indication: The network validation function fails to detect and report misconfiguration alarms for uplink ports on switches of all level types.</p> <p>Description: If a port is configured as either uplink_1gb or Uplink_100mbs in the CANE, and the same port is configured as a Trunk in the Switch configuration, a network scan should report a misconfiguration alarm. However, it appears that the misconfiguration alarm is not being reported as expected.</p> <p>Recovery: Manually correct the configuration and reload the changes.</p> <p>Workaround: None.</p>
1-E8LCNE9	Experion TPS Applications	<p>Error Indication: After migrating from HPM to CDA integrated EHPM, it has been observed that the server point scripts are missing in the control builder form</p> <p>Description: After migrating from HPM to CDA integrated EHPM, it was found that the server point scripts for the points belonging to the migrated EHPM were missing. Ideally, the ELCN Database Import Utility should have imported the server scripts and also the history, group, and trend information configured on the server point.</p> <p>Recovery: The point scripts can be</p>

Reference Number	Functional Area	Description
		<p>manually restored from the server image, using the backup located in the Server\data\Script folder path</p> <p>Workaround: Perform the below steps for the workaround:</p> <ol style="list-style-type: none"> 1. Take a backup of existing scripts from the server. 2. For safety, place the backup server in 'Database Unloaded' mode in case the scripts are mission-critical and you need to quickly revert to a good configuration. 3. Take a backup of the script folder from both servers and copy the contents of the data folder (without subfolders) from both servers to a temporary location as a backup. 4. Disable the script engine on the primary server. Obtain permission from operations before attempting this in case there are any process-critical scripts. 5. Replace the scripts with those from the backup. 6. Enable the script engine and re-enable the scripts. 7. Check the operation and, if everything is okay, change the backup server to 'System Running' and synchronize it with the primary server. 8. Verify that the script folder on the backup server matches that on the primary server.
1-EB8COKH	Experion TPS Applications	Error Indication: Logical UCN

Reference Number	Functional Area	Description
		<p>Connections/Configuration and Import is unsupported in Control Builder.</p> <p>Description: The current infrastructure of Control Builder does not have the capability to configure logical UCN connections or import data for logical nodes into the Control Builder.</p> <p>Recovery: None.</p> <p>Workaround: None.</p>
1-FDCWKWR	TPNServer	<p>Error Indication: In a rare instance, the TPS Interface may fail on both Experion Servers, requiring a server reboot to restore normal functionality.</p> <p>Description: The TPS interface experienced a failure on both servers. Due to synchronization, an automatic failover occurred, switching the primary server from Server A to Server B. Server B attempted to synchronize, but the TPS interface continued to fail, causing repeated automatic failovers. This cycle continued until the servers were rebooted.</p> <p>Recovery: Reboot both the Servers or reset the LCNP to reload LCN node personality.</p> <p>Workaround: None.</p>
RELCNTN-7695	ELCN_UNIFIED_TOOL	<p>Error Indication: Certain Visual Studio tools tasks do not work for the CL.</p> <p>Description: Visual Studio tools tasks such as CL Checker, CL OpenHMFile(s), CL SaveToHM, CL Link/Unlink (ExecuteEC) do not work when the CL file is opened in Visual Studio.</p>

Reference Number	Functional Area	Description
		<p>Recovery: None.</p> <p>Workaround: Use Native Window for tasks related to creating and modifying the CLs.</p>
1-4K5UHS7	Experion TPS Infrastructure	<p>Error Indication: Sometimes Mode is not changing from group display using TPS Faceplates in EST for win10</p> <p>Description: Refer to the error indication.</p> <p>Recovery: None.</p> <p>Workaround: Instead of TPS Faceplates use HMI faceplates.</p>
1-ELGO9BP	ModBus TCP Infrastructure	<p>Error Indication: More than one numeric blocks writing to a common register, causing write freeze.</p> <p>Description: When more than one numeric blocks are writing to a common register, the register is not written and the status freezes at sending.</p> <p>Recovery: Eliminate Duplicate writes in PCDI strategies.</p> <p>Workaround: Eliminate Duplicate writes in PCDI strategies.</p>
RELCN-4356	ELCN_Bridge	<p>Error Indication: Backup ELCN Bridge reboots to a FAIL state after dropping sync (synchronization).</p> <p>Description: After running for a long period of time, the backup ELCN Bridge may reboot and start up in a failed state.</p>

Reference Number	Functional Area	Description
		<p>Recovery: Reboot the bridge that indicates FAIL from the Firmware Manager tool.</p> <p>Workaround: None.</p>
1-G2UNBA9	C300PM/EHPMX/EHPM	<p>Error Indication: HART Enable (HENABLE parameter) from the project side does not reflect on the monitoring side of the Control Builder.</p> <p>Description: Below are the issues observed in enabling HART configuration in PMIO HLAI and AO HART IOPs with module number over 24. 1. After enabling the HENABLE parameter on the project side of the control Builder and loading it on the monitoring side, the HENABLE parameter is still unchecked on the Monitoring side. 2. HART IOP Channel block load to the Monitoring Side of the Control Builder reports “Insufficient Memory Available in IOLIM”.</p> <p>Recovery: None.</p> <p>Workaround: Do not enable HART configuration in PMIO HLAI and AO HART IOPs with module number over 24.</p>

Controllers and Tools Known Issues

This table lists the Controller and Tools issues found in R530.

Reference Number	Functional Area	Description
1-CWYOIYV	EBM-Tools	<p>Error Indication: Change Parent operation fails for SCMs with certain configurations.</p>

Reference Number	Functional Area	Description
		<p>Description: While performing a Change Parent Operation between one SCM (Sequential control module) UDT (User Defined Template) to another, under certain circumstances fails, and Change Parent is not successful.</p> <p>Recovery: None.</p> <p>Workaround: None.</p>
1-8P8Q1X5	Control Builder-Fieldbus	<p>Error Indication: Upload/Update to Project and FIM4 Upload/Update to Project when Contents operations fail.</p> <p>Description:</p> <ol style="list-style-type: none"> 1. Import DD and Commissioned FF Device. 2. Perform Upload/Update to Project and FIM4 Upload/Update to Project with Contents. <p>Recovery: None.</p> <p>Workaround: None.</p>
1-9PMMA5N	Control Builder	<p>Error Indication: QVCS Revert Operation of a Block reverts/modifies dependent block but the version number of the dependent block does not change.</p> <p>Description: This error occurs while performing the following procedure.</p> <ol style="list-style-type: none"> 1. Assign a Channel/IOPOINT to an IOModule and name it as IOM1 and check-in the IOM1 (Version 1). 2. Create another IOModule, IOM2 and check-in the IOM2 (Version 1). 3. Now, check-out both the IOMs and move the Channel/IOPOINT from IOM1 to IOM2. 4. Check in both the IOM1 (Version 2) and IOM2 (Version 2).

Reference Number	Functional Area	Description
		<p>5. Now perform revert operation on IOM1. Now 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 change. It is still in Version 2 which is not correct.</p> <p>Recovery: None.</p> <p>Workaround: None.</p>
1-A7Q5HJ7	Control Builder- Copy Paste	<p>Error Indication: "EHI-Internal-Error" appears during copy operation of the container module.</p> <p>Description: Copy of a container module containing large number of embedded objects (CM, SCM, RCM) fails in the Control Builder.</p> <p>Recovery: None.</p> <p>Workaround: None.</p>
1-B37FK6L	QVCS For Displays	<p>Error Indication: "Object Locked" error appears while performing Apply Label operation when Multi user Control Builder operations are in progress.</p> <p>Description: When multiple users are simultaneously using QVCS and performing bulk QVCS operations and one of the users perform a "Apply Label" operation, this error occurs.</p> <p>Recovery: Press cancel to come back to the QVCS query window.</p> <p>Workaround: Retry the Apply label operation again.</p>
1-B4ZR4WY	EtherNet/IP-Tools	<p>Error Indication: While saving the re-edited EtherNet/IP device template "EPKS_E_ SAVE_ PARAMIDENT_EXHAUST" error occurs. Detailed.</p> <p>Description: If you create an EtherNet/IP template and add large number of parameters</p>

Reference Number	Functional Area	Description
		<p>with copy and paste operation, there is a chance you may get the Param code which is not in out of boundary condition.</p> <p>Recovery: None.</p> <p>Workaround: Save the template with "Save as Renew" option.</p>
1-C8WLKP3	Control Builder-Change Parent	<p>Error Indication: After performing operations such as Change Parent operation to a different UDT (User Defined Template), an export of the instance and the UDT (User Defined Template), delete from Control Builder, then doing an import of the instance and its UDT (User Defined Template), an error message "the Base User Defined Template for this block is not found and may need to delete it and re-import along with the UDT" appears.</p> <p>Description: After performing operations such as change parent operation to a different UDT (User Defined Template), an export of the instance and the UDT (User Defined Template), delete from Control Builder, then doing an import of the instance and its UDT (User Defined Template), an error message "the Base User Defined Template for this block is not found and may need to delete it and re-import along with the UDT" appears.</p> <p>Recovery: Delete the imported instance and its UDT (User Defined Template). Close and re-launch Control Builder. Import the instance and the UDT (User Defined Template).</p> <p>Workaround: Delete the imported instance and its UDT (User Defined Template). Close and re-launch Control Builder. Import the instance and the UDT (User Defined Template).</p>

Reference Number	Functional Area	Description
1-DR44PCV	CDB-Runtime	<p>Error Indication: When more than 255 characters are entered in CDB (Custom Data Block), the value disappears without any warning message.</p> <p>Description: When more than 255 characters are entered in CDB (Custom Data Block), the value disappears without any warning message.</p> <p>Recovery: Re-enter the value on the Monitoring side.</p> <p>Workaround: None.</p>
1-E7DX7GV	System Management	<p>Error Indication: The Network Configuration cannot be loaded to the server.</p> <p>Description: The FTE (Fault Tolerant Ethernet) Community configured in the Network Configuration UI cannot be loaded to the server which will cause the FTE (Fault Tolerant Ethernet) Base IP Address not to be set. Hence this information will not be updated to Control Builder.</p> <p>Recovery: None.</p> <p>Workaround: None.</p>
1-BMJ4UZZ	System Repository	<p>Error Indication: SR (System repository) synchronization drops for physical consoles and does not recover.</p> <p>Description: When SRDB in multiple physical consoles is deleted and SR service is started, then the SRDB does not build completely at times on the physical consoles and the synchronization drops.</p> <p>Recovery:</p> <p>Perform the following procedure:</p>

Reference Number	Functional Area	Description
		<ol style="list-style-type: none"> 1. Stop the physical console SR service and rename the "SRDB (EPKSOOperationalDB.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. <p>Workaround: None.</p>
1-CQ572ZJ	Procedure Explorer	<p>Error Indication: While navigating Inter Cluster P2P (ICPP) batch, Procedure Explorer performance degrades. For example, the components that shows navigation (tree, breadcrumb) are no longer in synchronized with each other. Unexpected info bars appear, components stop responding, and so on.</p> <p>Description: The defect is due to Procedure Explorer going over the active data subscription limit in Server.</p> <p>Recovery: Restart the Station and/or Procedure Explorer.</p> <p>Workaround: Avoid viewing ICPP batches while in LOOKAHEAD mode (View active only off) until support can be added to Procedure Explorer.</p>
1-E16N9SZ	Control Builder-Tree	<p>Error Indication: The Control Builder tree search is slow and takes time to respond.</p> <p>Description: When Control Builder is open and used for more than 5 days with heavy engineering operations, the memory builds up and application becomes slow.</p> <p>Recovery: Close the Control Builder and re-open.</p>

Reference Number	Functional Area	Description
		Workaround: Close the Control Builder and re-open.
1-ATQUI67	Control Builder	<p>Error Indication: Control Builder fails on Bulk edit/Bulk build list dialog box when you float the mouse over browse path.</p> <p>Description: When a tool tip text exceeds 80 characters in browse path of Bulk edit/Bulk build list dialog box, Control Builder fails.</p> <p>Recovery: Re-launch Control Builder and avoid floating the mouse over browse list of Bulk edit/Bulk build list.</p> <p>Workaround: Change the browse path so that the tool tip path shall not exceed 80 characters.</p>
1-AUHJAWD	Control Builder	<p>Error Indication: Control Builder fails often during run time.</p> <p>Description: Control Builder fail issue is observed sometimes when Control Builder is left open overnight.</p> <p>Recovery: None.</p> <p>Workaround: Clear the logs if any strategies are open on the monitoring side, and relaunch it. Close the Control Builder when the Operations are done and then Launch if required.</p>
1-B8FR609	System Repository	<p>Error Indication: Server Redundancy shows that Backup System Repository fails to synchronize with Primary System Repository.</p> <p>Description: CDB (Custom Data Block) block type which has 750 (formula/report) parameters which internally has 12,500 parameters in total where the size is large causes synchronization issue.</p> <p>Recovery: None.</p>

Reference Number	Functional Area	Description
		Workaround: Try to reduce the number of parameters in Custom Data blocks CDB (Custom Data Block) to avoid this sync drop issue.
1-C2TXF3J	Standard Series C IO Modules	<p>Error Indication: LLAI channels report bad PV alarms occasionally during stable running.</p> <p>Description: When the IO module scan rate is configured to less or equal to 250 ms for Low Level Analog Input (LLAI) Module, some Low Level Analog Input (LLAI) Module channels would report Bad PV (process variable) alarms occasionally.</p> <p>Recovery: Change the IO Module scan rate.</p> <p>Workaround: Set the IO module scan rate to a value greater than or equal to one second (2 seconds, is preferred).</p>
1-BQXLZQP	Control Builder-Print	<p>Error Indication: When you print a chart from Control Builder Monitoring side, the print preview and output file, includes elements from the Project tab instead of the Monitoring tab.</p> <p>Description: When you print a chart from Control Builder Monitoring side, the print preview and output file, includes elements from the Project tab instead of the Monitoring tab.</p> <p>Recovery: None.</p> <p>Workaround: Scroll all the items then click Print Preview.</p>
1-BT97N8T	Control Builder-Fieldbus	<p>Error Indication: An error message "Encountered an improper argument" appears in the Control Builder.</p> <p>Description: For Fieldbus device ABB_ LMT200, in Monitoring side, when you navigate to "ROOTMENU_LABEL- <Diagnostics-<Waveform" and</p>

Reference Number	Functional Area	Description
		<p>hover the mouse pointer on graphs, error message "Encountered an improper argument" appears.</p> <p>Recovery: From the taskbar, stop contbldr.exe.</p> <p>Workaround: None.</p>
1-C7H42YP	EBM-Controller	<p>Error Indication: Batch execution goes with the Function Reference based on the initial Unit selection done during LOOKAHEAD.</p> <p>Description: Equipment does not get associated as per Function Reference if the Unit Selection is modified in a PreExecution Batch, after performing a LookAhead.</p> <p>Recovery: None.</p> <p>Workaround: None.</p>
1-CC0YJ3B	EBM-Controller	<p>Error Indication: A batch commanded to Hold while waiting for its resource, remains in Holding state even after the resource becomes available for acquisition.</p> <p>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.</p> <p>Recovery: None.</p> <p>Workaround: Do not command a Batch to Hold, when it is waiting for resources to be acquired.</p>
1-DGC2U09	EBM-Controller	<p>Error Indication: Unit is owned by unrelated Control Recipe after Unit hits Unmanaged Conflict error in Resource arbitration queue.</p> <p>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.</p>

Reference Number	Functional Area	Description
		<p>Recovery: None.</p> <p>Workaround: None.</p>
1-DGC2UOK	EBM-Controller	<p>Error Indication: Batch goes to Fail state, due to Data type error in last N_IEC Step outputs of sequence.</p> <p>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.</p> <p>Recovery: None.</p> <p>Workaround: None.</p>
1-DGC2UOU	EBM-Controller	<p>Error Indication: Batches with N_IEC Outputs configured in Abort handler goes to Fail state with Ref Not Assigned error.</p> <p>Description: Batches created against MR (Master Recipe) 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.</p> <p>Recovery: None.</p> <p>Workaround: None.</p>
1-DGVKY6L	EBM-Controller	<p>Error Indication: Inactivation/ Re-load of MRs (Master Recipe) in use by multiple batches, when the MR (Master Recipe) is not acquired by any Batch result in failed Activities.</p> <p>Description: When a MR (Master Recipe) configured to be used in multiple Recipes and has multiple Batches created and running, Inactivation/Reload of MR (Master Recipe) when it is not acquired by any of the Batch results in</p>

Reference Number	Functional Area	Description
		<p>MemManIntErr.</p> <p>Recovery: None.</p> <p>Workaround: Do not Inactivate/Reload MR (Master Recipe) when there are active Batches configured to use it.</p>
1-CYETOTX	HMS-HIVE-Server	<p>Error Indication: Predicted CPU and Peer references count may cross the system limits for the smart assignment proposals</p> <p>Description: Sometimes the predicted CPU and Peer references count will cross the system limits due to the protocol related CPU usage and peer reference count are calculated after the proposal is formed.</p> <p>Recovery: Remove few strategies from hive and get the proposal again</p> <p>Workaround: Add control strategies to hive incrementally and commit chunk by chunk.</p>
1-AYFDKQ8	ReferenceBlock-Tools	<p>Error Indication: No error shall be popped up when user tries to connect two block pins from different blocks to a AO or DO reference block. 2 blocks can drive a value to output which is not correct.</p> <p>Description: Output reference blocks should not accept more than one connection and throw an error.</p> <p>Recovery: If two connections are made to the output reference blocks delete one of the connection and reload the CM.</p> <p>Workaround: Do not connect two pins to output reference blocks.</p>
1-EGQHHJ2	PROFINET Tools	<p>Error Indication: Profinet devices gateway and Subnet configuration validation is not done</p>

Reference Number	Functional Area	Description
		<p>while save.</p> <p>Description: In the Profinet configuration tool, Gateway and Subnet Configuration Fields were introduced, and the user must enter these values for configuration. But there is no validation available to check if the values are correct are not.</p> <p>Recovery: None.</p> <p>Workaround: The user must provide the correct details while configuring the device.</p>
1-F8NIG15	PROFINET Tools	<p>Error Indication: After device creation, channel name creation is not consistent in CB.</p> <p>Description: If the station name is the same for the two device access points under different controllers, the channel names will be created as default names.</p> <p>Recovery: None.</p> <p>Workaround: The user must provide unique station names for each device access point across the cluster.</p>
1-9SI1K4B	Profibus Interface Modules	<p>Error Indication: DPV1 data disconnect (freeze) observed during stable running condition.</p> <p>Description: DPV1 data disconnect (freeze) observed during stable running condition. PGM is configured with a single turck excom slave with PBHIOMB to access AIHart and AOHart data, and the testbed is kept as it is for a stable run test.</p> <p>Recovery: None.</p> <p>Workaround: Delete the HART channel block and PBHIOMB block and reload it.</p>

Reference Number	Functional Area	Description
1-DX8KQKV	Control Functions - Continuous	<p>Error Indication: UOC,HCA, C300v5 switchover time increases by 200ms when PCDI is loaded.</p> <p>Description:</p> <p>When we performed commanded switchover on HCA, we observed that the Max Switchover time (RDNSOTIMEMAX) exceeds 500ms in some cases. On detailed analysis we found the PCDI loaded is causing the switchover time to increase by 200ms approximately.</p> <p>Recovery: None.</p> <p>Workaround: None.</p>
1-9IXAKJ3	CEUOC-Platform-Virtual	<p>Error Indication: In vUOC 500 ms Controller, when initiator store requests from this vUOC goes beyond 2000pps then Push/Store Request rate is reducing from 50pps to 25pps.</p> <p>Description: In vUOC 500 ms Controller, when initiator store requests from this vUOC goes beyond 2000 pps then Push/Store Request rate is reducing from 50pps to 25pps.</p> <p>Recovery: Lower Push/Store Request below 2000pps.</p> <p>Workaround: Lower Push/Store Request below 2000pps.</p>
1-EORTFKR	Control Builder-Automated Device Commissioning	<p>Error Indication: The device parameters are not shown correctly during loopcheck as it is fetching same value.</p> <p>Description: Read of the device parameter value during the loop check is incorrect.</p> <p>Recovery: None.</p> <p>Workaround: None.</p>
1-EKDYKCN	Control Builder	<p>Error Indication: Control builder application</p>

Reference Number	Functional Area	Description
		<p>failure happens when Print All Project tree charts or Print All Monitoring tree charts option.</p> <p>Description: Control builder application failure happens when Print All Project tree charts or Print All Monitoring tree charts option.</p> <p>Recovery: Relaunch Control builder.</p> <p>Workaround: Print individual charts.</p>
1-EVTUTC1	FF Interface Modules	<p>Error Indication: Upstream RegCtl block connected in CAS with downstream FF block, reports INITMAN ON after FIM switchover causing downstream FF block to shed its mode.</p> <p>Description: On a heavily loaded FFLINK (16 Devices with more than 120 FIM Link VCR configuration and with higher macrocycle greater than 4 second) occasionally it's observed that after FIM switchover upstream RegCtl block INITMAN become ON.</p> <p>Recovery: Users need to manually change downstream FF block to CAS mode.</p> <p>Workaround: None.</p>
1-F1X823T	Control Builder	<p>Error Indication: Data flow will no happen in all the effected Master Recipe (Procedure or Unit Procedure).</p> <p>Description: Actual relationship of Master Recipe (Procedure or Unit Procedure) with child Master Recipe (i.e. Operation) gets created only with the runtime entity (Activity). Hence the system is unable to find the relationship between Master Recipes. And system is not able show any warning message for delete connections confirmation.</p> <p>Recovery: All the effected Master Recipe</p>

Reference Number	Functional Area	Description
		<p>(Procedure or Unit Procedure) needs to be reconfigured and loaded.</p> <p>Workaround: No Workaround.</p>
1-F4T6COL	HMS-HIVE-Server	<p>Error Indication: Duplicated error messages shown in Smart assignment error page.</p> <p>Description: Error messages are repeated three times in smart Assignment error pane for unassigned Strategies first time invocation of Smart Assignment user interface.</p> <p>Recovery: None.</p> <p>Workaround: Restart Experion PKS Control HIVE Configuration service.</p>
1-FDHR5L3	Control Builder-Fieldbus	<p>Error Indication: Logix3800_0104Instantiating "I_ARITHMETIC" Function Block and loading the device fails to commission.</p> <p>Description:</p> <ol style="list-style-type: none"> 1. Add FF DD in to Experion. 2. Instantiating "I_ARITHMETIC" Function Block in the project side. 3. Load the device. 4. Fails to commission. <p>Recovery: None.</p> <p>Workaround: None.</p>
1-FR1Z8UZ	CK-Control Kernal	<p>Error Indication: Secondary controller rebooting to fail state occasionally during startup.</p> <p>Description: The probability of occurrence is 1 out of 100 times.</p> <p>Recovery: Reboot failed secondary manually.</p> <p>Workaround: No workaround.</p>

Reference Number	Functional Area	Description
1-FXQ9GXT	PROFINET Tools	<p>Error Indication: Duplicate ProfiNet submodules got created during UDS replacement in platform lock condition.</p> <p>Description: If the UOC Controller configuration form is opened and has locks by one user and the Replace submodule operation is performed by different user it will create duplicate submodules.</p> <p>Recovery: None.</p> <p>Workaround: ensure UOC platform block has no locks before performing replace ProfiNet submodule.</p>
1-FZJOQ9D	C300v5-Hardware	<p>Error Indication: If CF9 firmware is updated or CF9 module is rebooted / power cycled, FTE LAN A or LAN B Failed alarm may be reported in FTE status tab of the C300v5 controller connected to the CF9 downlink port.</p> <p>Description: If CF9 firmware is updated or CF9 module is rebooted / power cycled, the FTE port of the C300v5 controller connected to the corresponding CF9 module may become unresponsive resulting in FTE LAN A or LAN B Failed alarm.</p> <p>Recovery: If FTE LAN A or LAN B Failed alarm is present in FTE status tab of the C300v5 controller, please reboot the controller to clear the error condition.</p> <p>Workaround: If FTE LAN A or LAN B Failed alarm is present in FTE status tab of the C300v5 controller, please reboot the controller to clear the error condition.</p>
1-FZROGPN	System Management Tools	<p>Error Indication: CF9 Port field is missing after Migration for C9300-24S Switch level backbone.</p>

Reference Number	Functional Area	Description
		<p>Description: For Switch C9300-24S when level is selected as Backbone in port field CF9 option is missing.</p> <p>Recovery: No Recovery.</p> <p>Workaround:</p> <ol style="list-style-type: none"> 1. Create the switch configuration by selecting C9300-24S & level as backbone & Embedded as the port option. 2. Open the JSON file and modify the "speed" from "auto" to "100".
1-G0E291G	C300v5-Platform	<p>Error Indication: C300 (PCNT05) restarts to the FAIL state when performing retention save (loss of external power).</p> <p>Description: A rare condition exists where an internal diagnostic may incorrectly trigger when performing retention save (loss of external power). The internal diagnostic will cause the C300 (PCNT05) to restart to the FAIL state after external power is restored.</p> <p>Recovery: Restart or power cycle the C300 (PCNT05).</p> <p>Workaround: None.</p>
1-CYCA805	EBM-Controller	<p>Error Indication: Sequential Control Module or Recipe control Module with N_IEC Commands in Processing State, when Aborted does not get deenergized in certain conditions.</p> <p>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 deenergize 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 an</p>

Reference Number	Functional Area	Description
		<p>Bypass on the Particular N_IEC Command.</p> <p>Recovery: None.</p> <p>Workaround: Change the LOOKAHEAD Parameter back to NONE for the SCM or RCM.</p>
1-FSJLHZX	PGM	<p>Error Indication: PGM Reports " Input Data Cycle Overrun in Events Summary.</p> <p>Description: When PIOMBs with 25 MS subscription is loaded and under PCT load condition, "Input Data cycle overrun" is reported.</p> <p>Recovery: To avoid this event getting reported continuously, perform the below procedure:</p> <ol style="list-style-type: none"> 1. Change the least PIOMB subscription rate to next higher value in the controller. 2. Disable PGM sync (synchronization). 3. Cold boot PGM. 4. Reload all configuration to PGM. <p>WorkAround: Don't use PIOMB subscription rate of 25 MS, instead suggest to use 50 MS, incase when the Input Data cycle: event is reported for the given configuration.</p>
1-FQZ62NJ	Control Functions - Continuous	<p>Error Indication: PITotalizer is not reading the AVRAW value when the input is through HIVE controller.</p> <p>Description: If the Pulse input module is configured in CN100 as HIVE and configuring the channel in CM assigned to C300V5 then the PITotalizer block is not reading the AVRAW value.</p> <p>Recovery: None.</p> <p>Workaround: As a work around, a typeconvert block needs to be added between AIREF and</p>

Reference Number	Functional Area	Description
		PITOTLIZER block. This will enable the input to be fetched.
1-F9FR0UP	PROFINET Tools	<p>Error Indication: GSDML parsing not checking the visible/changeable parameter value in GSDML.</p> <p>Description: While Configuring the Profinet Devices user can see all the parameters from the GSDML irrespective the visible attribute is True are False. Also, Profinet Configuration tool allows the user to change the value irrespective of the changeable attribute True are False.</p> <p>Recovery: None.</p> <p>Workaround: User Should not Change the values of the parameter where the changeable attribute is false in the GSDML.</p>
1-FZNAG89	PGM	<p>Error Indication: PIOMB communication failures.</p> <p>Description: When PGM is configured with say 8 connections, if one of the controller is down, PGM buffers goes full with and it impacts other controller communication. This happens When the load condition is similar to specification in PCT spec.</p> <p>Recovery: Switchover PGM or reload PGM.</p> <p>Workaround: Do not load PGM with 8 PDA connections and a maximum of PIOMBs and DSBs.</p>
1-FXEDWOZ	Security Provisioning Tools	<p>Error Indication: Critical error occurred, The item 'install-adcsCertificationAuthority' is not recognized as the name or cmdlet.</p> <p>Description: ManageCertificates.exe may show above while configuring certificate authority if pending reboots are present in the node.</p>

Reference Number	Functional Area	Description
		<p>Recovery: Reboot the node and run ManageCertificates.exe to continue with certificate authority configuration.</p> <p>Workaround: Reboot the node and run ManageCertificates.exe to continue with certificate authority configuration.</p>
1-G1NELZB	Control Functions - Continuous	<p>Error Indication: Secondary Init value is not propagated to upstream from FANOUT with OPSELECT algorithm option Problem.</p> <p>Description: When FANOUT uses OPSELECT algorithm and its upstream is connected to PID block and its downstream is connected to any regulatory block or AO channel, the selected OP downstream initialization value is not propagated to PID block (upstream of FANOUT).</p> <p>Recovery: None.</p> <p>Workaround: None.</p>
1-FJJ1TI5	CDA-Embedded	<p>Error Indication: ICPP communication fails between virtual ACE and its responder connections during the ESXI Host yellow cable fault.</p> <p>Description: Virtual ACE nodes that have an established peer-to-peer connection that reaches outside of an ESXI host will lose their connection when the yellow uplink cable is removed from the ESXI host. The ACE responders will remain in an "initialized" state until the ESXI host yellow connection is restored.</p> <p>Recovery: Re-establish Yellow uplink connection on the ESXI host.</p> <p>Workaround: If the yellow uplink connection cannot be restored, then migrate the virtual ACE</p>

Reference Number	Functional Area	Description
		to an ESXI host that has a working yellow uplink.
1-FVSZX4F	EBM-Tools	<p>Error Indication: The Failed to Read Activity error in the Batch View shows if the description of the formula or report parameters contains a special character (" , ' & , > , <)</p> <p>Description: This is an XML parsing issue that typically occurs with user-configured descriptions in formula or report parameters that use the following characters: " , ' & , > , <</p> <p>Recovery: To recover, you'll need to remove those special characters from the formula and report parameter descriptions. Then create a new batch of the recipe.</p> <p>Workaround: Avoid using those special characters in the formula and report parameter descriptions.</p>
1-FP77PT3	CEUOC-Platform	<p>Error Indication: Checkpoint restore fails on UOC in the interop scenario and EIM load from the monitoring side.</p> <p>Description: After the server is migrated to R530, and controller firmware is still in R520.x, restore the checkpoint, which is built on R530 to R520.x UOC fails. In cases where EIM goes to NODB in the interop scenario. Load from monitoring for EIM (EIP, PNET) will also fail.</p> <p>Recovery: NA.</p> <p>Workaround: Load the project.</p> <div> <p>ATTENTION: Migration Scenario: When the OPM bit is on and migration is in progress. L1 nodes will be still in source release. During this condition, load from the project is not allowed. In case of any failure of controllers, CP restore is the only</p> </div>

Reference Number	Functional Area	Description
		<p>mechanism to get the controller to run state. Hence, we won't have any recovery to get the controller back to its running state.</p>
1-G25W8X5	PGM	<p>Error Indication: Loss of control of PROFIBUS IO and devices on that particular link in which the SC11 coupler is switched OFF.</p> <p>Description: When the SC11 coupler is used in the PROFIBUS network and when it is powered off, it results in a loss of communication and hence a loss of control.</p> <p>Recovery: NA.</p> <p>Workaround: Configure the connection break support time to the lowest value, which is 1.</p>
1-G2F9ML1	Control Functions - Continuous	<p>Error Indication: The Data value for the off-normal alarm of the DEVCTL block loaded to C300V2/V3 is always seen as BAD, even when states are properly setup.</p> <p>Description: The Data value for the off-normal alarm of the DEVCTL block loaded to C300V2/V3 is always seen as BAD, even when states are properly setup.</p> <p>Recovery: None.</p> <p>Workaround: Ignore the behavior in C300.</p>
1-FHE4R59	EIM - Platform	<p>Error Indication: None.</p> <p>Description: [M&I] C300v5, EIM, or UOC may show unexpected peer communication path after migration.</p> <p>Recovery: None.</p> <p>Workaround: In Experion PKS R530.1,</p>

Reference Number	Functional Area	Description
		<p>segregated networking support was introduced for the first time in the UOC and EIM personalities. That is, the firmware version of EIM and UOC will define whether CDA peer contacts between them and other module personalities will take place over the traditional FTE supervisory network or the Control & IO network segment.</p> <ul style="list-style-type: none"> • Peer connections initiating to EIM and/or UOC devices running R520.2 (or earlier) firmware will use the FTE supervisory network. • Peer connections initiating to EIM and/or UOC devices running R530.1 (or later) firmware will use the Control & IO network segment. • Peer connections are negotiated during first time connect only. Devices initiating peer connections to EIM and/or UOC will not automatically switch from the FTE supervisory to the Control & IO network segment after EIM/UOC migration to R530.1 (or later). • Likewise, peer connections may not revert to the FTE supervisory network after downgrade of an EIM or UOC from R530.1 to R520.2 (or earlier). • Peer devices can be forced to renegotiate their connections (and switch between the FTE supervisory and the Control & IO network segment) by performing a switchover of the peer device. For example, you may switchover a redundant C300V5 controller to force renegotiation of peer connections with recently migrated EIM devices. (i.e. switch from the FTE supervisory network to the Control & IO network segment).
1-FHEMRXN	EIM - Platform	Error Indication: None.

Reference Number	Functional Area	Description
		<p>Description: [M&I] Peer communication initializes after EIM or UOC downgrade from R530.1 to R520.2 or earlier.</p> <p>Recovery: None.</p> <p>Workaround: By performing a peer device switchover, the user can force peer devices to renegotiate their connections (and switch between the FTE supervisory network and the FTE control and I/O network segment).</p> <p>For example, you can switchover a redundant C300v5 controller to force renegotiation of peer connections with recently migrated EIM devices. (i.e. switch from the FTE supervisory network to the FTE control and I/O network segment).</p>
RELCNTN-7502	ELCN Nodes	<p>Error Indication: Changes to the "SHUT DOWN" target for redundant ELCN Nodes (from the NW's (Native Window) Node Status or System Status display), which were implemented in TPN R690.1, are not working properly.</p> <p>Description: Upon issuing a "SHUT DOWN" command to a primary UEA/UVA ELCN node from the NW's Node Status or System Status display, the primary ELCN Node (with a synched backup ELCN Node) reboots. Instead of transitioning to the OFF state (as previously occurred via the system software internally sending a second SHUT DOWN command), currently the ELCN Node transitions to the FAIL state. This will be fixed as part of a future ELCN Node Firmware update.</p> <p>Recovery: NA.</p> <p>Workaround: While the ELCN node is showing the FAIL state on the NW's Node Status or System Status display, the user can manually</p>

Reference Number	Functional Area	Description
		<p>issue one more SHUT DOWN command to bring the ELCN Node to the OFF state, while the ELCN Node fully reboots to the PWR_ON state (and is available for reloading).</p> <div> <p>NOTE: It is not necessary to perform this extra SHUT DOWN because the node will reboot to the PWR_ON state regardless.</p> </div>

Server and Station Known Issues

This table lists the Server and Station issues found in Experion PKS R530.

Reference Number	Functional Area	Description
EXPD-1472	eServer Standard Access	<p>Error Indication: If directory browsing is not disabled on a web server, it means that users may be able to view the contents of directories directly through a web browser rather than being served a specific webpage. This can pose a security risk as it may expose sensitive information or allow unauthorized access to files.</p> <p>Description: If directory browsing is not disabled on a web server, users may see a listing of files and directories instead of a specific webpage when accessing a directory. This can pose security risks by exposing sensitive information or allowing unauthorized access to files.</p> <p>Recovery: NA.</p> <p>Workaround:</p> <ol style="list-style-type: none"> 1. Open IIS Manager. 2. In the Connections pane, select your server. 3. In the Features View pane, double-click Directory Browsing.

Reference Number	Functional Area	Description
		4. In the action pane, click disable to disable the directory browse.
EXPD-1471	eServer Standard Access	<p>Error Indication: If HSTS (HTTP Strict Transport Security) is not enabled, there won't be a specific error indication. However, the absence of HSTS may lead to potential security vulnerabilities and issues related to HTTPS enforcement.</p> <p>Description: Currently, HTTP Strict Transport Security (HSTS) is not enabled in Microsoft IIS setup. This absence necessitates the insecure practice of redirecting users from HTTP to HTTPS URLs. HSTS is a critical security measure widely supported by major browsers, ensuring that visitors always connect to our website over HTTPS, thereby mitigating potential security risks associated with insecure redirection.</p> <p>Recovery: NA.</p> <p>Workaround:</p> <ol style="list-style-type: none"> 1. Open IIS Manager. 2. In the Connections pane, select your server. 3. In the Features View pane, double-click HTTP Response Headers. 4. Verify an entry exists named Strict-Transport-Security. 5. Double click Strict-Transport-Security and verify the Value: box contains any value greater than 0. The recommended max age is 8 minutes (480 seconds) or greater. 6. Click OK.
EXPD-1455	Operator Watchlist	<p>Error Indication: TPS points now showing in Watchlist search list results.</p> <p>Description: When using the point search capability in Watchlist, any TPS point in the system will not</p>

Reference Number	Functional Area	Description
		<p>appear in the search list as you type.</p> <p>Recovery: Not required.</p> <p>Workaround: You can still type in the full name of the point and hit enter, use drag and drop or right click and select Add to Watchlist.</p>
EXPD-1454	Station Installation	<p>Error Indication: Collaboration Station installed on a business network computer won't connect to an Experion R530 server.</p> <p>Description: Collaboration Station Windows Installer package (CollaborationStationSetup.exe) available in the DVD3\Packages folder on the Experion PKS System Initialization media installs the Experion R520 version which will not connect to an Experion R530 server.</p> <p>Recovery: Contact TAC to obtain the latest Experion R530 version of the Collaboration Station Windows Installer package (CollaborationStationSetup.exe).</p> <p>Workaround: N/A.</p>
EXPD-1335	Universal Messaging Infrastructure	<p>Error Indication: Console station sometimes might not be able to open alarm tracker, alarm help, and other displays, when being started for the first time.</p> <p>Description: A client certificate is required to ensure security of internal communications, and on initial start-up and synchronization with the server it can be issued by an incorrect certificate authority.</p> <p>Recovery: Restart the Console Station services. This should only happen on the first time the Console Station starts up.</p> <p>Workaround: None.</p>
EXPD-1260	Server - other or unknown	<p>Error Indication: OPC UA Server, OPC UA Clients and MQTT do not work after Server migration.</p> <p>Description: The existing certificates required for</p>

Reference Number	Functional Area	Description
		<p>OPC UA Server, OPC UA Clients and MQTT will be invalid after migration.</p> <p>Recovery: After migration, follow the instructions in the Experion documentation to regenerate certificates for OPC UA Server, OPC UA Clients and MQTT.</p> <p>Workaround: N/A.</p>
EXPD-1504	Server Scripting	<p>Error Indication: Script editor window is not opening due to an unexpected exception for SCM with more than 70 steps.</p> <p>Description: In Control Builder, Open Module Properties for SCM with more than 70 steps, Go to Tab Server History, click on "Create New or Edit Existing Server Scripts". Script editor window is not opening.</p> <p>Recovery: NA.</p> <p>Workaround: Delete some steps in SCM ,edit the script and re-create deleted steps.</p>
EXPD-586	Batch Historian and Reporting	<p>Error Indication: Batch Historian log repeatedly outputs message – "The transaction log for database 'ProcedureAnalyst' is full due to 'REPLICATION' ".</p> <p>Description: Batch Historian stops collecting new events.</p> <p>Recovery: NA.</p> <p>Workaround: Please contact TAC if this issue is observed.</p> <p>Please see Microsoft SQL Server KB4521739.</p>
1-FN5EOX7	Detail Displays	<p>Error Indication: Bulk Display Migrator will show as frozen while running during AMT migration.</p>

Reference Number	Functional Area	Description
		<p>Description: When there are display files with a different locale, the _htm folder is missing, or displays are not configured properly, the Bulk Display Migrator will show as frozen while running during AMT migration.</p> <p>Recovery: The Bulk Display Migrator has to be restarted.</p> <p>Workaround: The user has to ensure the below and run the Bulk Display Migrator.</p> <ol style="list-style-type: none"> 1. Display files developed in different locales (languages): The system locale should be set to match the display file locale. 2. _htm folder missing: As there is no corresponding _htm folder, the display needs to be corrected before migration. 3. Display files are not configured properly; the display file has to be corrected before migration.

LATE BREAKING CHANGES

No Late breaking changes in this release.

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