

# HONEYWELL INFORMATION, NEWS, AND TIPS



JANUARY 2023

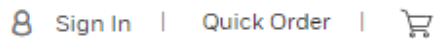
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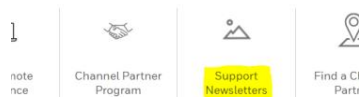
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## EXPERION® PKS R520.2 TCU2 Release Announcement

Honeywell is pleased to announce that Experion PKS R520.2 Tools and Controller Update 2 (TCU2) is now available for our customers. All Experion R520.2 systems should plan to install this update to take advantage of Experion’s latest robustness, capability, performance, and stability improvements.

TCU2 adds below updates to the Experion PKS R520.2 Specifications:

1. An enhanced migration path to UOC for customers with C200 and FIM2 has been validated. This enhances support for UOC-FIM integration.
  - A migration path for customers from C200 with FIM2 to UOC with FIM4/FIM8 has been validated.
  - Fieldbus-Experion configurations are supported by UOC CEE.
  - Control strategies using Foundation Fieldbus function blocks with Experion blocks are supported by UOC
2. Enhanced UOC Specification/Capacity
  - The Maximum EtherNet/IP™ Class-3 CIP connections to ControlLogix nodes per UOC have been increased from 10 to 20.
3. Enhanced PCDI Specification
  - PCDI Master block specification is increased from 8 to 16 in C300 (CC-PCNT05) controller.
4. Comprehensive PMIO support in C300 (CC-PCNT05)
  - All IOP types from PM I/O family are now supported with C300 (CC-PCNT05) controller.
5. Enhanced network and downlink support for Profinet devices
  - Subnet mask and Default gateway fields are introduced. For more information about Subnet mask and Gateway configuration, refer to the Control Builder User Guide.
  - Additional information is provided in the Profinet Configuration User Guide.

This quarterly update is cumulative and follows the Tools and Controller Update 1 (TCU1) which enabled C300 CC-PCNT05 Revision C Hardware, C300PM Revision D Hardware, EHPMX Controller, and C300 Security Lock while resolving several PAR’s for system stability, configuration, migration and usability.

Migration paths to Experion R520.2 with TCU2 expanded:

TCU2 validates and enables several Hot Fix (HF) migration paths. Experion PKS R520.2 with TCU2 migrations from the following are fully supported:

R50x Series	R51x Series	R52x Series
R501.6 HF8	R510.2 HF12	R520.1 TCU4
	R511.3 HF15	R520.2
	R511.4 HF7	R520.2 TCU1
	R511.4 HF8	
	R511.4 HF9	
	R511.5 TCU1	
	R511.5 TCU2	

NOTE: Direct controller migration to Experion PKS R520.2 Tools and Controller Update2 is allowed for all supported releases as mentioned in the Experion PKS R520.2 Software Change Notice.

Honeywell strongly recommends all end users to stay current with the latest release including all quarterly updates. With robust lifecycle support through August, 2027, Experion PKS R520.2 provides exceptional value and is THE target release for all Experion PKS migrations. Over 500 Experion R520.2 systems have gone live in production in the 8 months since its introduction. This release is proving to be the most robust version of Experion ever.

EPKS software releases are available for electronic download and CD/DVD media distribution.

For more details related to this software release, please refer to the Experion PKS Release 520.2 Tools and Controller Update2 Software Change Notice.

[https://process.honeywell.com/Experion PKS Release 520.2 Tools and Controller Update 2 Software Change Notice](https://process.honeywell.com/Experion_PKS_Release_520.2_Tools_and_Controller_Update_2_Software_Change_Notice)

## Phase Out Notification – Experion® PKS R500, R501 (R50x)

Experion® PKS R500 and R501 (collectively known as R50x) will be phased out effective March 31, 2023.

As per the HPS/HCI Product Support Guide outlined in the [Customer Resource Manual](#), a system software functional release is intended to be supported for a period of 72 months after the initial release. As Experion PKS R500 was launched in January 2017, this announcement is a formal notification that the entire Experion PKS R50x release train will be phased out.

A phased-out product no longer receives PAR fixes. Technical support for Phased-Out software will be limited to restoration of serious LOV/LOC Incidents. HPS-TS will make commercially reasonable best efforts to assist in restoring operations but will not offer RCA (Root Cause Analysis) once Incidents are restored. We can also provide support to migrate a Phased-Out Software Product to a Full Support Software Product.

We strongly recommend the customers with installed R50x or earlier releases to start proactive migration planning to the latest supported Experion PKS releases. Migration services to upgrade phased-out releases to the latest Experion PKS versions are available and fully supported. Please follow this [link](#) for more information on Advanced Migration Technologies.

The latest release, Experion PKS R520.2, is fully supported on Windows 10 and Windows Server 2019, and supports direct migration from Experion PKS R50x.

## Advanced Migration Technologies R130 Release

Honeywell continues to invest in migration tools, highly automated processes, and infrastructure to simplify and speed Experion PKS migrations. Our Advanced Migration Technologies solution accelerates the modernization cycle and reduces customer effort. Customers can shift focus from the migration to leveraging the value and capabilities of the latest Honeywell Experion R520.2 control system. With transformative features like Experion Highly Integrated Virtual Environment (HIVE), R520.2 helps customers realize increasingly challenging operations and maintenance goals.

The Advanced Migration Technologies (AMT) solution has built-in features that simplify the Experion PKS migration workflow. AMT leverages years of migration experience and accumulated knowledge from Honeywell experts who have performed over 12,500 migrations. AMT incorporates Experion best practices to deliver a highly reliable, robustly configured system.

AMT automated workflows enable fast and consistent expert collaboration between our pole-hub-based Global Migration Support Centers (GMSC), Field resources, and Migration Center of Excellence (MCoE) members to deliver seamless results. The Migration Assistant application on [Process.Honeywell.com](https://Process.Honeywell.com) enables customers to check migration progress, access documents, and exchange information necessary for the migration. The AMT process and key milestones are visible through the Migration Assistant.

AMT features an automated data collection tool, the Experion Migration Data Assistant (EMDA), that collects and organizes system data required for the migration. EMDA is enhanced in each AMT release – R130 incorporates powerful logic to reduce manual input requirements. The results of the EMDA step are utilized to initiate automated Experion PKS L2 node migrations, closely monitored by GMSC resources using our Migration Control Center. The Migration Control Center uses sophisticated dashboards to visualize the process and analytics to monitor all migrations in progress. Our experts are immediately alerted to any potential issues, and our embedded migration Global Technical Assistance Center (GTAC) resources engage to solve any problem. The AMT build process incorporates Experion migration and configuration best practices, , and standardized build/software layering to ensure highest delivered quality and security.

Honeywell also provides its customers with an optional Virtual Factory Acceptance Test, or VFAT service. The VFAT includes controller simulation, enabling our customers to familiarize themselves with the new Experion PKS system features and to test displays, control logic, and other Experion functionality. As AMT reduces migration effort and cycle time in each new release, customers can utilize the VFAT to enhance site readiness for the new system. Once GMSC migration activities are completed, the migrated system images are delivered for site deployment and controller migration.

## ADVANCED MIGRATION TECHNOLOGIES

**Honeywell**



Advanced Migration Technologies-based Experion PKS migrations are realizing significantly reduced customer effort and faster migration completions. By removing process complexities and addressing pain points, AMT reduces field effort and post-migration issue. Customers have reported cycle time savings exceeding 50% and are constantly expanding their use of the AMT-GMSC migration strategy.

Advanced Migration Technologies release R130 will be deployed for all AMT-based migrations by March 2023 and provides significant new features including:

- Streamlined Migration Registration procedures and enhanced EMDA capabilities
- Virtual FAT experience with C300 Controller simulation for interactive user validation
- Digitization to increase automated workflow
- Enhanced Migrated Image validation security
- Enabled Services integration, utilizing the Enabled Services Dashboard and analytics, to check post-migration system compliance and performance. Enabled Services automatically performs some post-migration GTAC checks, reducing effort.

Kindly connect with your Account Manager to register Experion PKS upgrade now...!

## Update on Series A I/Os parts Lifecycle Status Change

This is an important notification for all C200/C200E controller install base customers.

Beginning 31<sup>st</sup> January 2023, Honeywell is transitioning the 'Series A IOs parts Family' connected under C200/C200E controllers from 'Legacy' to 'Phase out' lifecycle state, in accordance with the HPS support guidance for "Control, Safety and Monitoring systems".

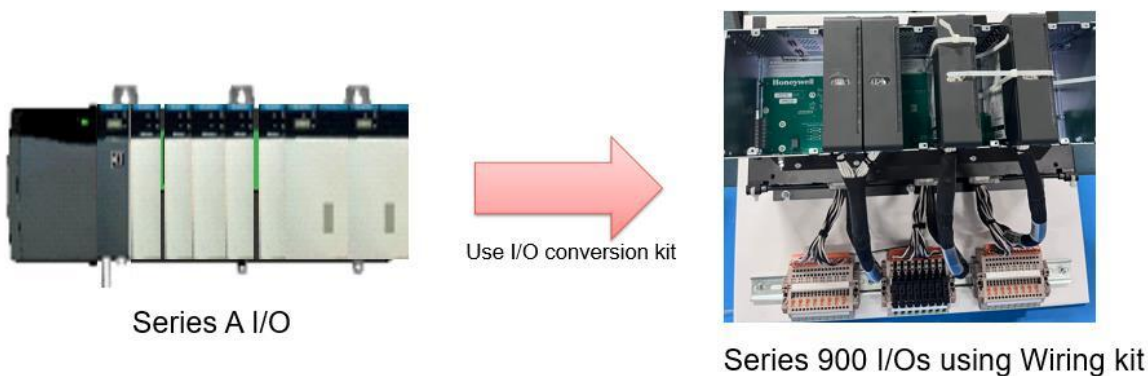
The initial announcement on C200/C200E & Series A I/O obsolescence was made in July 2015. Since then, Honeywell has deployed multiple effective solutions to facilitate the upgrade of customer Series A I/O module.

These solutions were built to transform old Series A I/O devices into Honeywell's newest Series C or 900 series I/O modules while continuing to preserve existing field wiring and marshalling.

To learn more, kindly contact your Account Manager.

Notwithstanding the obsolescence of the C200 subsystem and the 'phased out' status of its component parts, Experion software continues to recognize the controllers and the corresponding Series A I/O. Experion PKS continues to support Series A I/O to coexistence with and replacement by the equivalent Rockwell 1756 I/O modules. A list of equivalent 1756 I/O modules is included in the Honeywell's 'Control Hardware Installation Guide' PDF manual (Chapters 7 and 16).

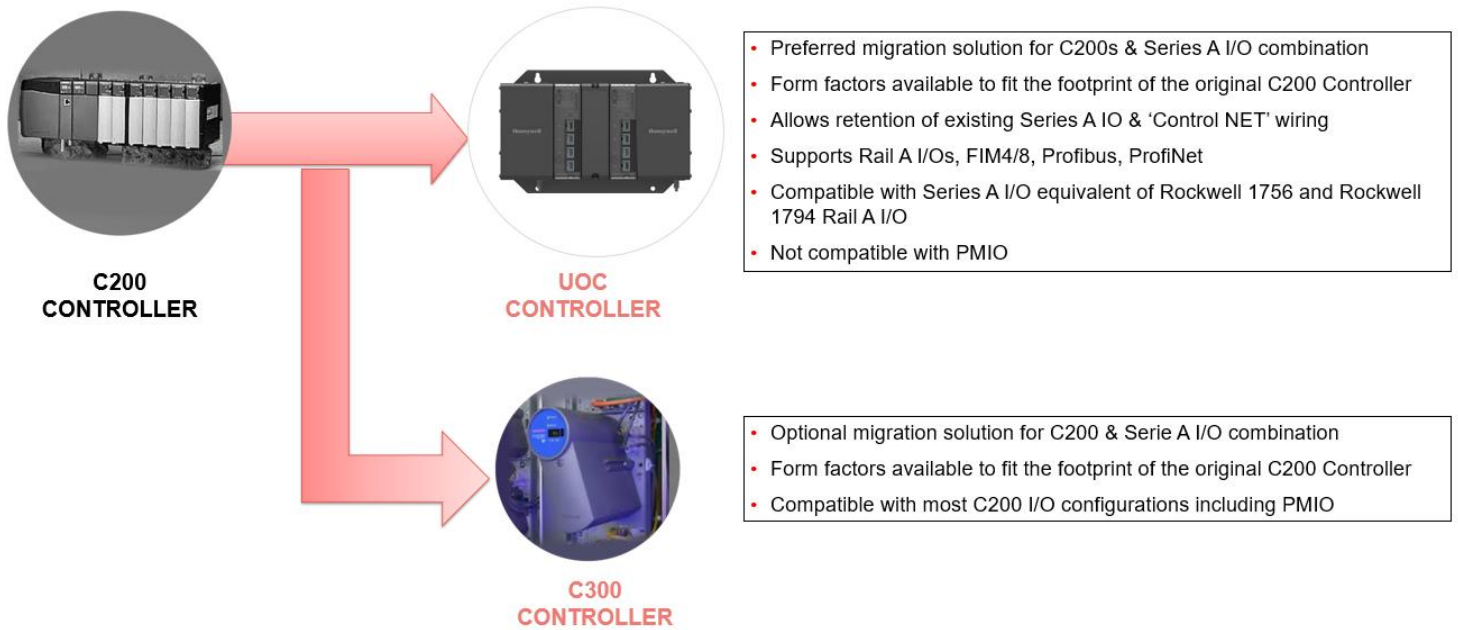
The latest supported and qualified replacements of obsolete 1756 I/O modules are also mentioned in the Control Hardware Planning Guide.



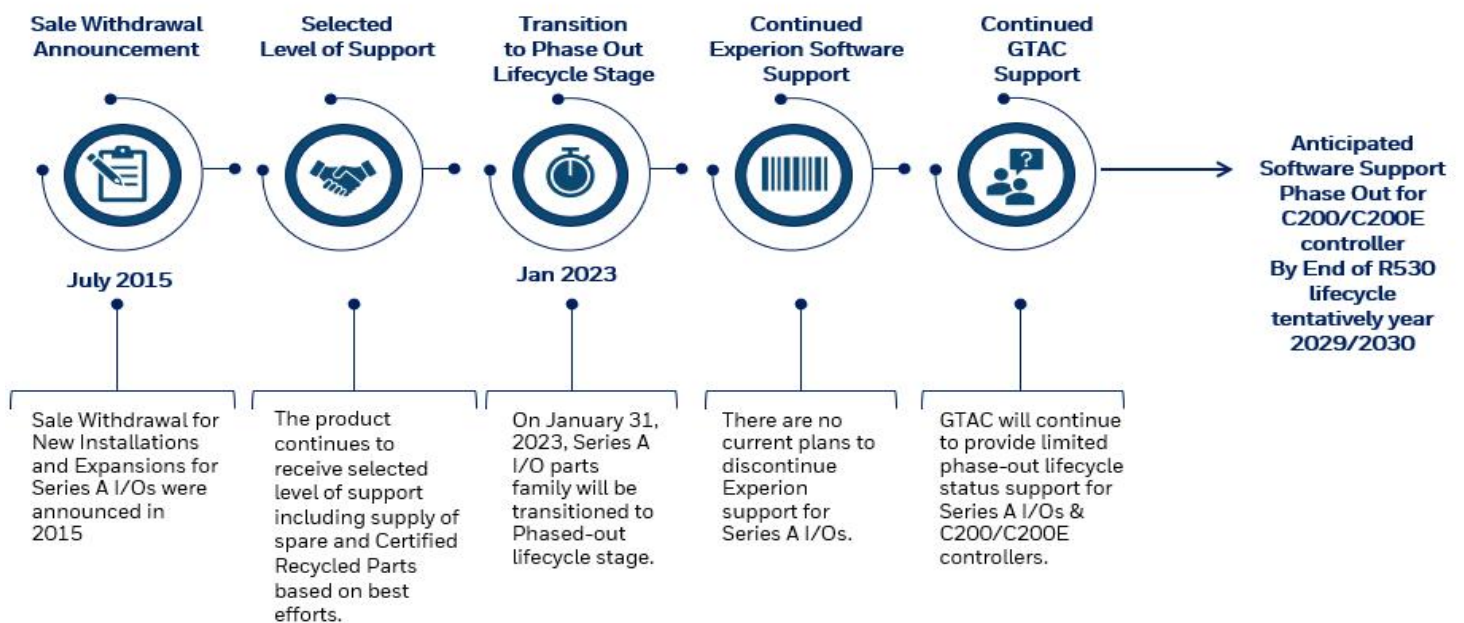
Honeywell has also introduced several C200/C200E controller migration paths to provide flexibility to reuse existing Series A I/Os, for example:

- Honeywell's latest ControlEdge UOC controller can now replace existing C200/C200E controllers enabling customers to retain the Series A I/Os and existing CNET wiring network
- Honeywell's Experion PKS R520.2 TCU2 facilitates the integration of UOC and FIM4/8 modules. Experion R520.2 TCU2 validated the 'UOC CEE' support to all the existing Fieldbus Function blocks & configuration strategies on to the FIM4/8 module. A migration path for customers from C200 with FIM2 to UOC with FIM4/FIM8 has been validated.

Experion PKS C300 controller continues to support Series A I/Os and provide latest technologies & functionalities to achieve business goals.



The following are key points to consider for C200/C200E & Series A I/O Modules:



Keep checking HINTs for upcoming news on 'C200 migrations to UOC & C300s'.

Let us help you to plan the C200 controller upgrades now...!

The following parts are affected by this announcement:

1756-DNB	DEVICENET BRIDGE/SCANNER MODULE	TC-ORC161	RELAY OUTPUT 16 NO
1756-DNB/A	DEVICENET BRIDGE/SCANNER MODULE	TC-PBFO01	CONTROLNET REPEATER ADAPTER HAZ 1

Model Number	Description
1757-CN2FF	ALLEN-BRADLEY FIELDBUS LINKING DEVICE
SST-PB3-CLX	PROFIBUS INTERFACE MODULE
TC-CCN011	CN INTERFACE SINGLE MEDIA
TC-CCN012	CN INTERFACE SINGLE MEDIA
TC-CCN013	CONTROLNET INTERFACE, SINGLE MEDIA
TC-CCN014	CONTROLNET INTERFACE, SINGLE MEDIA
TC-CCR011	CN INTERFACE REDUNDANT MEDIA
TC-CCR012	CN INTERFACE REDUNDANT MEDIA
TC-CCR013	CONTROLNET INTERFACE REDUNDANT MEDIA
TC-CCR014	CONTROLNET INTERFACE REDUNDANT MEDIA
TC-CEN011	Ethernet Module, 10/100 Mb
TC-CEN021	Ethernet Module, 10/100 Mb
TC-CENF21	Ethernet Fiber Module, 10/100 Mb
TC-FCCN01	CONTROLNET ADAPTER
TC-FCCR01	DUAL MEDIA CONTROLNET ADAPTER
TC-FFIF01	Fieldbus Interface Module
TC-FXX041	4 SLOT RACK
TC-FXX042	4 SLOT CHASSIS 13 AMP
TC-FXX071	7 SLOT RACK
TC-FXX101	10 SLOT RACK
TC-FXX102	10 SLOT CHASSIS 13 AMP
TC-FXX131	13 SLOT RACK
TC-FXX132	13 SLOT CHASSIS 13 AMP
TC-FXX171	17 SLOT RACK

Model Number	Description
TC-PCIC01	Cnet Intrfc. Mod. for PC
TC-PCIC01K	ControlNet Interface Card (PCI bus) R320 Kit
TC-PCIC02	ControlNet Interface Module, PCI bus
TC-PGCN11	CONTROLNET GATEWAY REDUNDANT MEDIA HAZ 1
TC-PIA081	ANALOG INPUT 8 POINT HAZ 1
TC-PIB161	DIGITAL INPUT 16 POINT HAZ 1
TC-PIF021	FREQUENCY INPUT 2 POINT HAZ 1
TC-PIL081	TEMPERATURE INPUT 8 POINT HAZ 1
TC-PNX021	C100 CONTROL PROCESSOR
TC-POA081	ANALOG OUTPUT 8 POINT HAZ 1
TC-POB041	DIGITAL OUTPUT 4 POINT HAZ 1
TC-PRR021	REDUNDANCY MODULE
TC-PRS021	C200 CONTROL PROCESSOR
TC-RPA001	CONTROLNET REPEATER ADAPTER FIBER OPTIC
TC-RPA002	ControlNet Modular Adapter Fiber Module
TC-RPFM01	CONTROLNET REPEATER FIBER OPTIC (3000M)
TC-RPFS01	CONTROLNET REPEATER FIBER OPTIC (300M)
TK-CCN014	CONTROLNET INTERFACE, SINGLE MEDIA COATED
TK-CCR012	CN INTERFACE REDUNCANCY MEDIA COATED
TK-CCR013	CONTROLNET INTERFACE, REDUNDANT MEDIA COATED
TK-CCR014	CONTROLNET INTERFACE, REDUNDANT MEDIA COATED
TK-CEN011	ETHERNET MODULE 10MB COATED
TK-CEN021	Ethernet Module, 10/100 Mb, coated
TK-CENF21	Ethernet Fiber Module, 10/100 Mb, coated