



ABB ABILITY™ SYSTEM 800xA® 7.0

Bridging Today and Tomorrow's Automation Technologies

Version 7.0 is the latest Long-Term Support (LTS) release for System 800xA. Introducing cutting-edge features, this version is designed to tackle today's demanding automation projects, acting as a bridge to future automation technology advancements.

System 800xA version 7 is a long-term support version that establishes the foundation for ABB's Process Automation Vision to help implement and accelerate digital transformation.

This version is compatible with the latest virtualization platforms and Windows operating systems. It also includes updates for cybersecurity, improved certificate management, enhancements for OPC UA, compatibility with Ethernet-APL devices, better camera integration, and advanced device management capabilities. These improvements address the challenges of modern automation projects.

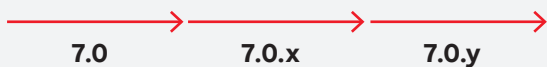
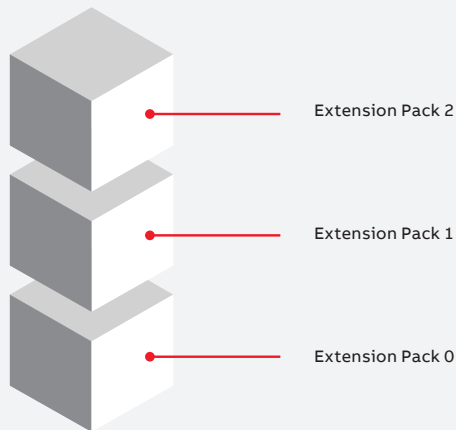
- Long-term support version with support for the latest MS Operating Systems.
- Latest security patches and error corrections.
- New features and performance improvements to address contemporary automation project challenges.
- Represents an important step forward in realizing ABB's Process Automation Vision, to accelerate digital transformation and provide new innovations while retaining continuity.

System 800xA v7 Features

- **Long-Term Support Version and Lifecycle Support** - Allows you to operate your facility with confidence by providing extended lifecycle service and support with predictable maintenance and operational stability
- **Dual OS Support for Seamless Upgrades** - Dual MS OS version support continues, with simultaneous support for both Windows Server 2025 / Windows 11 and Windows Server 2022 / Windows 10. This allows for convenient update and upgrade strategies from previous versions using supported features like Windows 'in-place upgrade'. Other lifecycle updates are included such as support for the latest MS SQL and the latest available virtualization technology for VMware and MS HyperV.
- **Support for MS Defender for malware protection** - System 800xA version 7 supports MS Defender to provide real-time protection against viruses, ransomware, spyware and other malicious software.
- **Environmental Product Declaration (EPD) for AC 800M Controllers** - Externally verified by The International EPD System - the global programme for publication of ISO 14025 and EN 15804 compliant EPD's. This declaration provides independently verified data on the environmental impact of AC 800M Controllers, supporting industries in meeting regulatory requirements and corporate sustainability targets.
- **Ethernet based I/O Performance improvements** - System 800xA version 7 provides 100% increase in number of supported networked I/O stations and devices on AC 800M's Ethernet based I/O network via the CI871A (PROFINET) Communications Interface Module.
- **Ethernet-APL Support** - System 800xA now has native integration support for Ethernet-APL switches and devices using its Device Import Wizard which allows the creation and reuse of hardware types for efficient engineering and change management.
- **OPC UA enhancements** - In addition to System 800xA's OPC UA Client Connect (server) providing numeric process, history, and alarm condition data to 3rd party consumers (clients), version 7 also supports OPC UA non-transparent redundancy for its OPC UA Connect (Client). This allows the OPC UA client to be responsible for detecting server failures and switching to a backup server for enhanced reliability.
- **Field Information Manager Integration** - Field Information Manager (FIM) is ABB's premier device management offering and is now integrated into System 800xA using its Aspect Object technology to provide improved operational visibility resulting in better decision making and hence, better results. System 800xA and FIM – better together.
- **Camera Connect for System 800xA** - A new video system solution is available for System 800xA, called Camera Connect. This solution is fully integrated with System 800xA via its Aspect Object technology.



Extension Packs with next generation technology offerings are added over time.



The journey begins – delivering on ABB's Process Automation Vision

ABB's Process Automation Vision aligns with NAMUR's Open Architecture (NOA) principles, emphasizing the "separation of concerns" between core process control and monitoring & optimization functions.

Version 7 also introduces Extension Packs, which is an innovative delivery mechanism that allows new features to be added independently from the base software. These packs operate on a separate lifecycle and utilize virtualized containerization technology. This enables the integration of new technology into existing 800xA installations without the need for updates or upgrades, significantly reducing adoption time and enhancing value realization. Consequently, Version 7 serves as both a destination and a starting point for future innovations.

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