

ABB Ability[™] System 800xA

More efficiency and flexibility with the new version 6.1



Our Principles



Collaboration Enablement



Safe & Secure Operations



Intelligent Engineering



Flexible I/O Solutions



Support for life



















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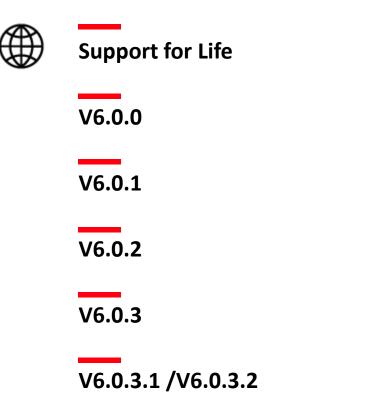








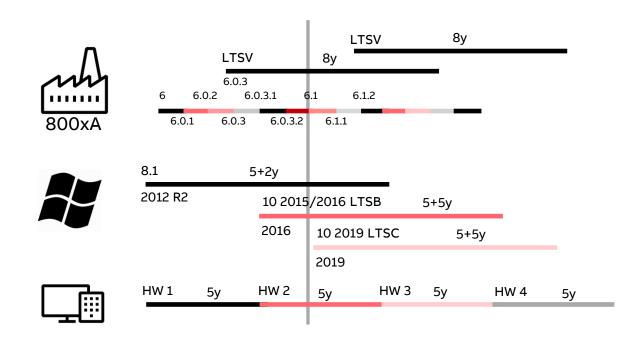
v6 Versions



- New Installer & new Upgrade/Update tool
- Cybersecurity as a core functionality
- Central System Management (Configuration Console)
- Control Diagram Editor Improvements
- New Controllers (PM858 / PM862)
- New Safety Controller for larger projects (PM867)
- Long term system version (LTSV) of System 800xA
- Dual Windows OS support concept
- Multiple Aspect Server und Auxiliary Clients
- Microsoft HyperVisor support

System 800xA 6.0.3

LTSV / Decoupling 800xA from Windows lifecycle



System Lifecycle based on customer wish

- Supporting with an System 800xA current version two different windows OS
- Support for incremental software updates
- System Updates without changing Windows OS (Same IT hardware)
- Step-wise HW replacements based on customer HW lifecycle strategy (including WinOS)
- Expansions of system nodes based on new hardware and software without needing to modify existing installation. Easy expansions.
- Online, Easy expansions, Easy updates
- Online Update No need anymore to upgrade the 800xA System

Hardware and OS lifecyles updates are decoupled from 800xA Software updates!



V6.1



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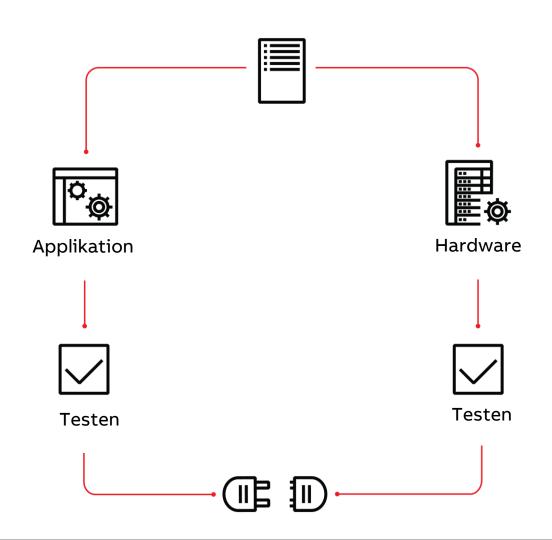
- xStream Engineering is the efficent and cost-effective process to implement big projects in a simpler and more efficent manner adapting easily to late changes and as a results faster commisioning of the plants.
- BDM2 support for Control Diagram Editor (CDE)
- IEC61850 Edition 2 Support
- New Safety Controller (PM857 / PM863)
- Introduction of Flexible I/O Solutions
 - Local, Remote, Fieldbus I/O
 - Multichannel I/O based on Ethernet
 - Single channel I/O (Select I/O)
- Support for S500 in AC 800M
- PNSM 2.0
- FIM Device Management

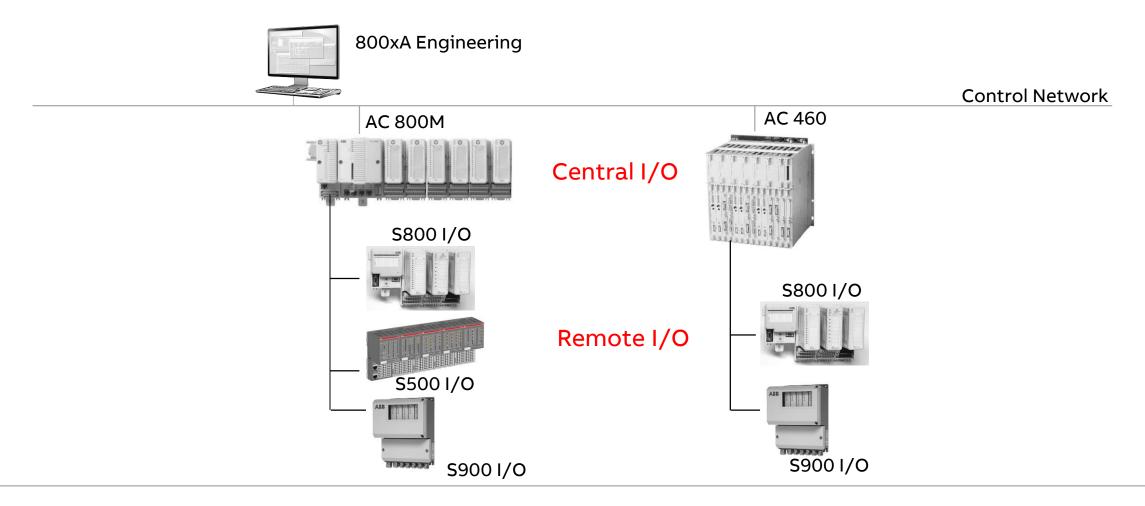
xStream Engineering

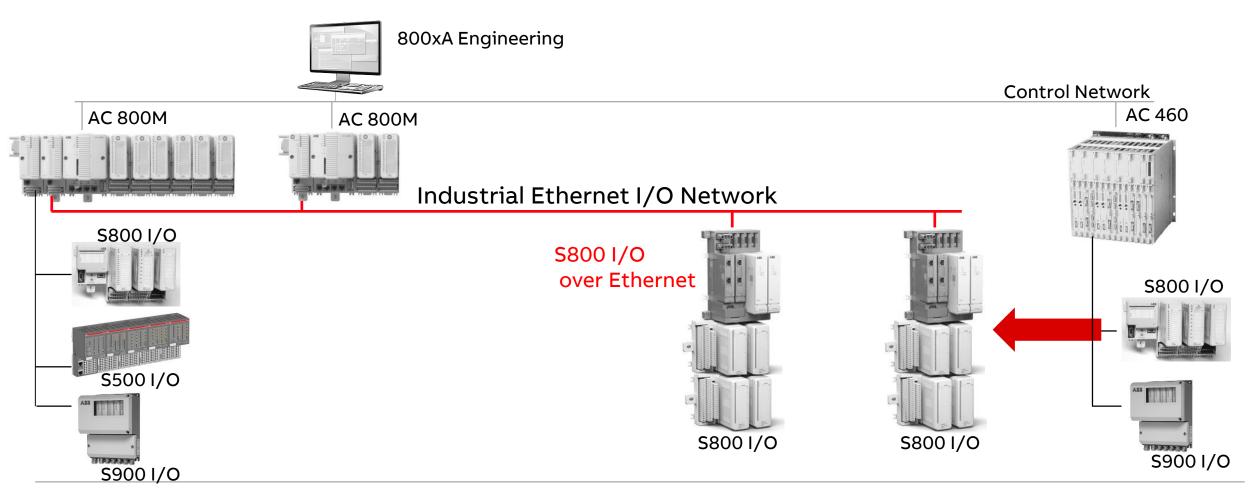
Enabling parallel process execution

Key Elements:

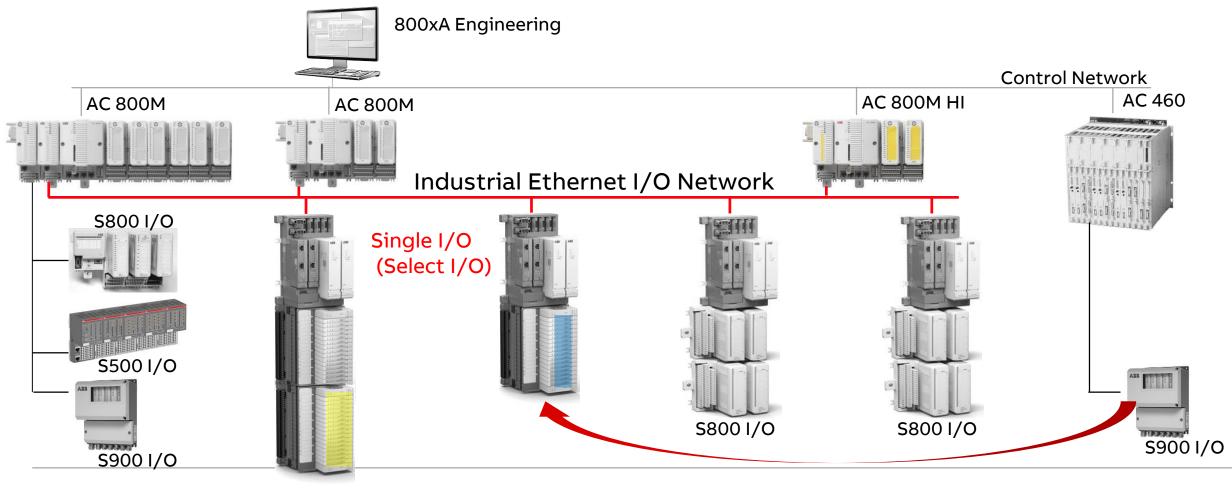
- Take time to prepare your projects well
- Fast-Track your Projects
 Perform activities in parallel instead of sequential
- Configure and check software in house
- Have hardware be configured and checked at site early
- Bind software and hardware as late as necessary at site
- Bind I/O Hardware via signals to software



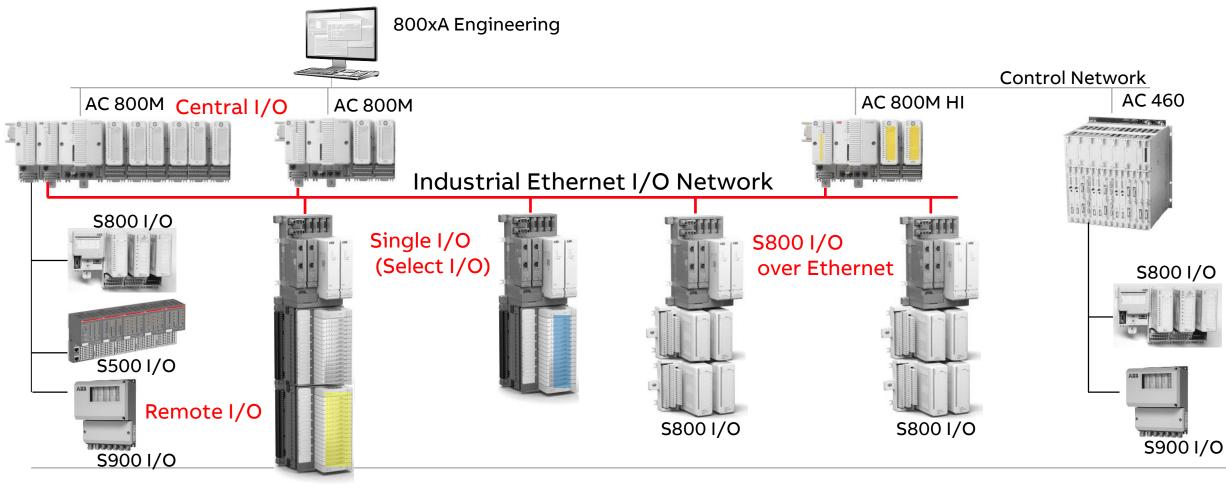








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Support for S500 in AC 800M

Vorteile von S500 I/O:

- Cost-effective I/O ideal for Hybrid markets
- High channel density in small footprint
- Hot-Swap Support
- Availability of variants for extreme conditions
- Certificates CE, cUL, Class I Div 2, marin

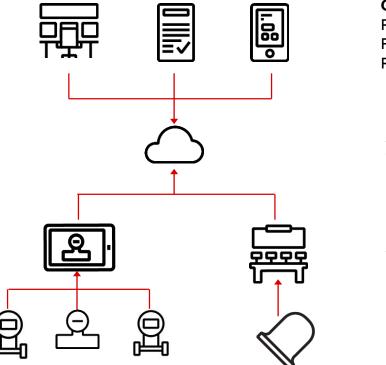
Hybrid applications

- Infrastructure, tunnel, building, water & waste water
- Cement, open pit mining, metals
- Pulp and paper entry level applications e.g. tissue paper
- Batch processes (pharma, chemistry and F&B)
- Data center a lot of analog inputs are needed
- Package units and packaging machines



Field Information Manager (FIM 1.4)

- FIM is based on FDI, that uses Device Packages & benefits from the simplicity of EDDs as well as offers graphic capabilities of DTMs
- Enables easy and efficient bulk device configuration of HART and PROFIBUS devices from a central location, enabled via device connectivity through System 800xA
- One tool for all needs can be used in the Engineering station, in the Field, back of the panel or in maintenance workshop
- Quick to start installs on Windows tablets and workstations, scans, identifies & enables access to device within 3 mins
- Connects to Online drivers repository eliminates the trial & error search of Device drivers
- Fleet management and Asset management opportunities enabled via Connectivity to ABB AbilityTM through OPC UA



Opportunities: Remote service Fleet Reporting Remote Verification

ABB Ability ™ through OPC UA

ABB System 800xA and FIM

Devices & Sensors

Even more functionalities

New Bulk Data Manager (BDM2)

- Support of older templates from BDM Classic (Excel)
- Allows Control Diagram Editor Bulk Engineering
- MS Excel independent

IEC61850 Edition 2 Support

- OPC Server and CI868 Edition 2 conform new Signal types are included
- OPC Server with PRP-Support (Redundancy)
- CI868 as a SNTP-Server
- CI868 reconfiguration with no reboot needed
- Sending of MMS diagnostics through signal types
- Alarm and Events with external timestamp for every signal type



Even more functionalities

New Safety Controller

- Select IO support
- For small and medium applications
- PM857/SM812 for small applications, limited to <128 channels (single or redundant)
- PM863/SM812 same functionality and performance as the former PM865/SM811

PC, Network and Software Monitoring (PNSM 2.0)

- PNSM 2.0 is based on a own developed SNMP Poll Driver Component which improves ist capacity and performance
- Allowing, more than 100+ IT devices to be monitored with a server
- New objecttypes for full integration of ABB Networking equipment
- Improved SNMP cybersecurity including encryption of the SNMP-Community-Name
- Support of SNMP V3

Summary





Intelligent Engineering

Flexible I/O Solutions



Collaboration Enablement



A Release focused on efficency and flexibility

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to come...



Collaboration Enablement



Safe & Secure Operations



Intelligent Engineering



Flexible I/O Solutions



Support for Life

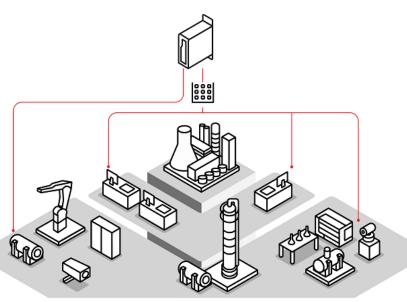
- Mobility Solutions
- Integrated FIM Asset Management
- Process Recall
- OPC UA Client/Server f
 ür 800xA
- OPC UA Client f
 ür AC 800M
- Profisafe
- Select I/O Phase 2
 New SCM types
 Fiberoptic for Ethernet
 Power Injector Block enhancements
- Win 10 2019 LTSC & Server 2019
- EDSA Certificate for AC 800M
- IEC 62443 Certification



Control Systems Digital Journey

Focusing on Control System Core

Mixed Systems (Connects) Compatibility (LTSV) Availability (Multiple AS & AC) Select IO



Digital future in Real-time

Collaboration (FIM) Optimization (Xstream) Prediction (Fleet Asset Management)

ABB Ability [™] is how we harness the power of digital to drive progress with our customers every day.

Know more

Utilize your industrial data through sensors, devices and software to know more about your business in real-time.

Do more

Monitor, control and manage your devices, processes and operations on-site or remotely.

Do better

Simulate, predict and optimize through tools, insights and analysis.

Together

Work hand-in-hand with our experts and engineers anywhere around the globe for business transformation.

