

DATA SHEET

ABB Ability™ Manufacturing Operations Management

Technical facts MOM Services release 3



Manufacturing Operations
Management Services is an
ISA-95 Level 3 plant data access
and information system which ties
any plant's data, from disparate
sources, into one information
infrastructure. This information
infrastructure collects, stores and
analyzes relevant data, building
a sound foundation for users to
make effective decisions.

Solution

ABB Ability Manufacturing Operations Management (MOM) Services consists of common services and four modules: User Experience (UX), Reporting, Connectivity and Data Storage. MOM Services also hosts a wide variety of software applications to support decision makers to make the right decisions at the right time. Applications can easily be added when new needs are identified associated with new standards, regulations or business objectives.

Additionally with the Software Development Kit (SDK) MOM Services also provides a cost effective platform allowing application developers to take full advantage of all standard common services functionality and world class UX.

Key benefits

 Managed complexity - Thanks to ABB Ability MOM, a large amount of industrial data will be stored, combined, and translated into meaningful information based on the intelligent information infrastructure. This enables companies to meet demands for the highest levels of quality, precision and accuracy in output, by supplying information that can be trusted to provide support in making the most important operational decisions for a plant.

- Control system independent The reliable, high capacity, cyber secure platform enables integration of any data according to open industry standards. ABB Ability MOM will allow industries to collaborate across systems and networks in the production process and to react faster to changing market requirements.
- Easy to expand The ABB Ability MOM platform also hosts different industrial productivity software applications. This enables users to adopt and expand quickly and easily by adding new relevant industrial software applications, as requirements from different operational excellence programs or business objectives change.
- Cost effective software life cycles With a life cycle separated from the control system, ABB Ability MOM Software offers a very cost effective IT/OT integration. Industrial productivity software applications can be added whenever needed. The underlying control systems life cycle does not impact this agility to add new software products and solutions as new requirements occur.

Tech Facts ABB Ability™ MOM

	Server	Data Collector Node
Operating Systems	Windows Server 2016/2012 R2	Windows Server 2016/2012 R2
		(Windows 7, 8.1 Pro, 10 Pro/Enterprise)
Virtualization	VMware ESXi/MS Hyper-V	VMware ESXi/MS Hyper-V
Redundancy	High availability	Yes
Max no of tags	150 000	20 000 (6 000)
Max update rate	20 000 changes/second	5000 changes/second (500)
Events rate	400 events/second	400 events/second
Control system connect	OPC DA (v 2.05A), A&E (v1.0), HDA (v 1.2), UA (v 1.0), 800xA Native Connect (system extension)	
Databases and interfaces	History (real time data) and MS SQL Server 2016/2012, ODBC, OPC DA (v 2.05A), HDA (v 1.2) and OPC UA (v 1.0)	
Data formats	Float, integer, boolean, string	
Built in calculations	Minimum, Maximum, Aggregates (Hour, Day, Week, Month, Year)	
Calculations language	.NET (C#) templates	
Reporting	Report workflow app as native part of MOM Services. MS Excel add-in. Support for 3:rd party report packages through ODBC.	
Clients	Windows (click once installation) for Windows 7,8.1 Pro and 10 Pro/Enterprise - Launchpad with native MOM Applications e.g. Dashboard and Trends and Events	
Apps development framework	.NET (C#) template projects, interface documentation, application package and deployment guidelines	