Today industries have large amounts of data collected in different systems. The data is essential for industries to keep track of their performance. Delivering the right reports to the right users at the right time is an important part in plant operations. Additionally, effective reporting is a must for compliance in regulatory industry as well as environmental reporting.

ABB Ability™ Manufacturing Operations Management (MOM) Reporting is a comprehensive report package running as a native integrated part of the MOM common services. This allows users to easily create the reports they need, including data from any data source or MOM Application. Final reports can be shared in many different formats or further analyzed in the smart interactive MOM Dashboard Application.

The solution
When working with Reporting, users are guided by a report workflow from design and scheduling of reports to the final, signed, and approved reports. This workflow is available on any MOM Launchpad client. This enables different parts of an organization to work with the reports they need for their operations.

Reports can be rendered into different output formats such as pdf, xlsx, and RTF. Additionally, to support different regulatory or compliance requirements, the report workflow includes comments and signatures for approval of final reports.

Key benefits of Reporting
MOM Reporting supports users with:
• One single workflow from design of reports to commented, signed, and approved reports.
• One common harmonized reporting concept across all MOM Applications and data sources.
• Design and view of reports on any Launchpad client.
• Final reports can easily be further analyzed using the smart interactive Dashboard Application.
How does it work?
All reporting capabilities are available as a native MOM Application and are launched from the MOM Launchpad. This Reporting Application guides the users through the different steps in the report workflow from design and scheduling of reports to commented, signed and approved reports. The Reporting Application is available on any MOM client. The report workflow includes the following main steps:

1. **Report template design**
The first step is to select the well-defined report data sources required for the report. Report data sources are tailor made interfaces to MOM Services platform for easy access of any report data. No time needs to be spent of data formatting. The powerful report design tool supports the users with fast configuration of reports templates with e.g. reuse of sub reports and version control including approval of report templates.

2. **Report template preview**
The users designing report templates can at any time, on demand, preview reports by assigning input data to the report parameters. This enables fast and easy test and verification of reports in parallel to the actual design of the report.

3. **Scheduling reports**
A flexible report scheduler executes report templates with defined input parameters to final reports. The scheduler also includes a retroactive scheduling to execute new reports back in time. Reports can be saved in various output formats and output file directory.

4. **View reports and assign comments and signatures**
The Reporting Application search function makes it easy to find and view final reports. Optionally it is possible to assign report comments and signatures to approve reports to support e.g. regulatory industries or environmental reporting.

5. **Working with Reports in Dashboard Application**
In addition to storing reports in various shares and directories or publishing reports to information portals reports can also be viewed and analyzed using the Dashboard Application. Similar to any other data completed reports can be dragged into the Dashboard Application canvas from the search engine results. Within the same dashboard users can view, compare and analyze any other relevant data related to the report. By using the unique Dashboard features such as interactive mode and back in time the analysis can be even more effective.

Pre-requisites
Reporting is a native module within ABB Ability Manufacturing Operations Management (MOM). With its common services and modules User Experience (UX), Reporting, Connectivity and Data Storage ABB Ability Manufacturing Operations Management is an ISA-95 Level 3 plant data access and information system which ties any plant data from disparate data sources into one single information infrastructure. It is also a platform that hosts different type of industrial productivity software applications, MOM Applications. This enables MOM users to easy expand and add new relevant industrial software applications as requirements or business objectives change.