

ABB Ability™ Manufacturing Operations Management Report Application



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) Report is comprehensive web-based 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.

The integrated report scheduler allows flexible and automated report creation

Final reports can be shared in many different formats to be archived or further analyzed. Using the email notification service, important reports can be shared by mail to ensure plant personal is kept up to date.

The solution

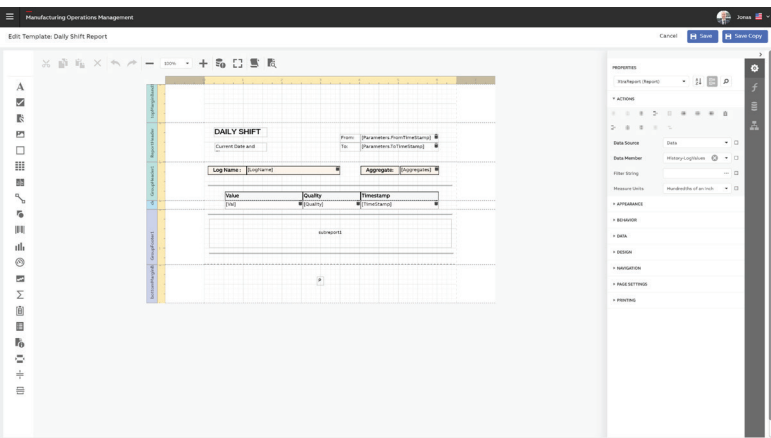
When working with Report, users are guided by a report workflow starting from template design, approval and scheduling to the final report creation. This workflow is available through the MOM Web Client Framework. This enables different parts of an organization to work with the reports they need for their operations. Reports can be rendered into different output formats such as PDF, RTF, XLSX, XLS and PRN.

Using the new report viewer and histogram visualization, users get an immediate understanding of the frequency of available reports against the selected time scope. Also all relevant information such as report name, responsive schedule as well viewing, exporting and printing the respective reports is available by few clicks.

Key benefits of Report Application

MOM Reporting supports users with:

- One single workflow from template design, approval and schedule towards report creation
- One common harmonized reporting concept across all MOM Applications and data sources
- Full fledged web-based report template designer, scheduler and viewer
- Mail notification service



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- 01 Report Designer
- 02 Report Schedule
- Email Notification

How does it work?

The Report Application is hosted within the MOM Web Client Framework and can be accessed using modern web browsers. The Report Application guides the users through the different steps in the report workflow from design of report templates, approval, scheduling towards viewing, exporting and printing created reports. Through the zero installation web client framework the Report application can be easily scaled and used whenever necessary. The report workflow includes the following main steps:

1. Report template design

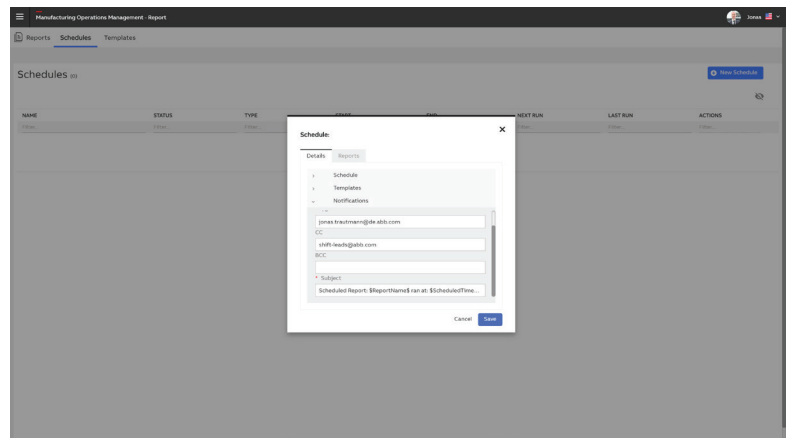
The first step is to select the well-defined report data sources required for the report. Report data sources are tailor made interfaces to MOM Services platform for easy access of any report data. No time needs to be spent of data formatting. The powerful report design tool supports the users with fast configuration of reports templates with e.g. reuse of sub reports and version control including approval of report templates. Import and export of created templates is supported as well for backup scenarios as well as sharing report templates between different projects.

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



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scheduler also includes a retroactive scheduling to execute new reports back in time. Reports can be saved in various output formats and stored within the file directory.

4. E-mail notification service

As an optional step the E-Mail notification service can be configured to inform plant personal about important reports. Multiple users can be informed using the CC and BCC email fields, created reports will be attached to the mail.

5. View, export and print reports

The Report Application provides an histogram visualization to allow users to quickly see and find relevant reports based on the selected time scope. Drill-down using search and sorting is also supported. From the report data grid users can quickly view, export and print reports.

Pre-requisites

Repor 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.