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 a 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 MOM application data source.

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.
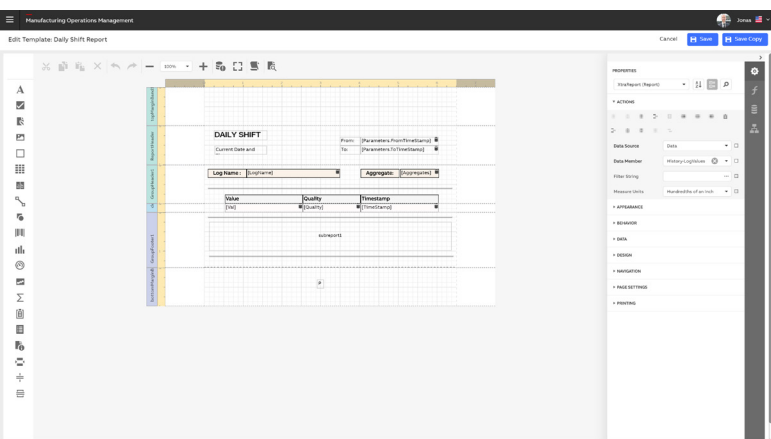
The solution
When working with Report, users are guided by a report workflow starting from template design, approval and scheduling to the final report creation. This workflow is available through the MOM Web Client Framework. This enables different parts of an organization to work with the reports they 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 immediately understand the frequency of available reports against the selected time scope. Also, all relevant information such as report name, responsive schedule, 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
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02 Report Schedule
Email Notification

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02

How does it work?
The Report Application is hosted within the MOM Web Client Framework and accessed using modern web browsers. The Report Application guides the users through the different steps in the report workflow from the 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:
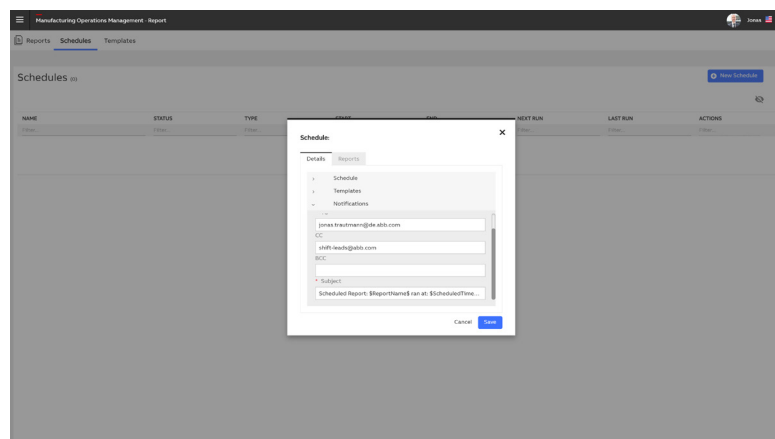
1. Report template design
The first step is to select the well-defined report data sources required for the report. Report data sources are tailor-made interfaces to MOM Services platform for easy access of any report data. No time needs to be spent on data formatting. The powerful report design tool 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 for backup scenarios and 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 scheduler also includes retroactive scheduling to ex-

ecute 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 a histogram visualization to allow users to quickly see and find relevant reports based on the selected time scope. Drilldown using search and sorting is also supported. From the report data grid users can quickly view, export and print reports.

Pre-requisites
Report 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.

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