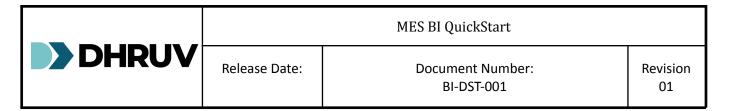
MES BI QUICK START

| | MES BI QuickStart | | |
|--------------|-------------------|--------------------------------|----------------|
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1 Overview

MES BI "QuickStart" solution would fast track Customer Opcenter data model knowledge and accelerate customer reporting and the solution comes with a MES DataMart and set of Power BI operational reports for WIP Management, Quality and Resource Management.

Customer can take advantage of the MES BI solution to build their operational and analytical reports or modify the existing one to meet their requirement.

2 System Requirements

| Operating System | Windows server 2012 or higher | | |
|-----------------------------|--|--|--|
| CPU | 1.8 GHz or faster x86 (Intel, AMD) processor. Dual core. | | |
| .NET Framework | 4.8 or higher | | |
| RAM | 8 GB or more | | |
| Hard drive | 100 GB available in the hard disk. | | |
| Data Base | Microsoft SQL Server 2016 and above (32 or 64 bit) Enterprise Edition, Oracle Database Client is version 11.2.0.4 or later | | |
| Applications | MS-EXCEL 2010 or higher | | |
| Network | support TLS 1.0 and SSL 3.0 by default | | |
| ODS | Siemens OpCenter ODS/Replicated Database server | | |
| Security and Access | SQL SERVER authentication, role-based access control (admin) | | |
| Reporting and Dash boarding | Microsoft Power BI account with Pro License | | |
| Gateway | Windows 12 or later for Installing On premise Gateway and On premise Data gateway (Standard Mode) | | |
| Client Tools | SQL Server Management studio, Power BI desktop, Power BI Builder | | |

Below are the minimum system requirements:.

3 Key Features

- 2 Potential to be included as part of the global template.
- Accelerate time to value for each site deployment with standard set of operational reports

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- Accelerate time to value for dashboarding and KPIs from shopfloor to top floor
- ☑ Fast tracked learning COE team and huge Cost Saving.
- **I** Foundation Dataware house and Datamart for all the reporting needs.
- ☑ Self service reporting capability using power BI.
- □ eDHR paginated reporting for MES Medi suit.

4 Technology Stack

The following technology stacks are utilized:

- □ SQL/TSQL/PLSQL.
- □ SQL Server/Oracle.
- Micro Soft Power BI