

Cloud Based MES

Service Composition

Resource
virtualization

Virtual Resource
Servitization

Dispatcher

Application Layer -
Production Planning
System

Information
systems

Data Mining and
Predictive Analytics

ERP Connector

ERP
(out of
scope of
study)

Product demand

Periodic order status

Production Order,
Product Variant and
Routing Details

Production Report

Generic Shop Floor Connector

Production Control Data Cache

Decentralization Facilitator

Resource Perception Layer

Exception Handler

Production Engine and Work-In-
Progress Monitor

Production Process Logger

Production Monitor and
Production Control

Shop Floor

Manufacturing Resources and
Capabilities

Production Operations

