

ABB's cpmPlus Enterprise Connectivity (ECS) offers the complete solution for seamless manufacturing and business processes integration, enabling true interoperability among all entities involved in the production process. The lifecycle of plant floor data no longer begins and ends on the plant floor. Instead, day-by-day operations require a complex network of many to many information flows between the business and manufacturing systems.

With tight integration links between business and manufacturing systems, ECS helps enhance the speed in which information is exchanged between the plant and the business so manufacturer's can respond on demand, optimize plant productivity, enhance efficiency and deliver high quality products to remain competitive.

With true interoperability enabled, cpmPlus ECS offers a foundation for highly scalable and flexible Manufacturing Execution Systems (MES). Standardized and integrated process and information flows drive manufacturing operational excellence and guaranty reliability, product quality, regulatory compliance and support for standards and procedures across global manufacturing facilities. Manufacturers become more responsive to the pull from the market and more predictive to their suppliers.

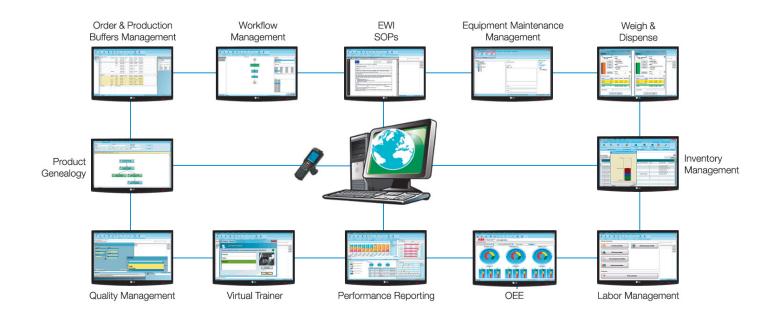
Flexible, ISA 95 based modeling capabilities and modular architecture with components and optional product modules, ensure an evolutionary approach for the future business needs.

Value proposition

- Manufacturing flexibility for leaner supply chains more responsive to the market pull and more predictive to suppliers.
- Transparency of operations and accurate manufacturing instructions through seamless connectivity between people, equipment and systems.
- Production visibility to minimize costs, maximize order fulfillment and throughput.
- Improved product quality, reliability, tracking and traceability for regulatory compliance.

- Improved cycle time by identifying the bottlenecks in the process workflows.
- Exceptions management with dynamic responses (e.g. material shortage, machine or operator downtime, rework).
- Management access to all types of operational data enabling decision support for corrective actions and performance improvement.

ECS at a glance	
Product	cpmPlus Enterprise Connectivity
Release	5.0
Market presence	since 2004
ISA 95 based	ISA) - 95
B2MML support	BEMME
SAP certified	SAP Certified Integration
Technology	Microsoft (.NET Framework, C#, C++, SQL Server Reporting Services, SQL Server Analysis Services), NHibernate
Database	Microsoft SQL Server 2005/2008, 2008 R2
Operating systems	Windows XP, Windows 2003/2008, Windows 2008 R2, Windows 7, Windows CE, x86/x64 support
Browsers	Microsoft Internet Explorer
Virtual environment	✓
NLS support	✓
Redundancy support	✓



Enabling productivity, quality and continuous improvement

Module	Benefit	Short description
Integration	Seamless integration of	Out of the box connectivity with SAP, ERP LN, Baan, IBM Maximo and othe ERP
	manufacturing and business	systems. Set of standard interfaces (ODBC, OLE DB), web service, XML, OPC, TCP/
		IP aswell as specific protocols to communcate to external systems, equipment and
		control system.
· ·	Plan, respond and change on	Flexible and reliable dispatching, management, execution, and monitoring of
	demand	production orders. Configuration of workflows with optional paths and dynamic flow
		(routing). Production buffers handling. Automatic mapping of a routing coming from
		ERP and confirmations of ERP operations.
	Bring consistency to	Guides the operator through each steps with the required production and safety
	manual operations	instructions and checks. Integration with common document repositories (SAP DVS,
		ZVS, SharePoint, Enovia, SmartTeam). Enables instant messaging and logging of shift
		notes.
Quality Management	Recognize and respond to	Integrated quality management, including quality parameters management, manual
	quality challenges	or automatic data collection, product test certificates. In-process quality control,
		automatic tolerance validation, r, manual or automatic reporting of non-conformities,
		checklists support.
	Improve plant performance	Collecting and tracking real-time equipment downtime and interruptions information
	and productivity	and causes. Non-productive activities tracking (e.g. downtime due to cleaning), idle
		and rework time tracking. Configurable effect on a product unit affected with down-
		time (abort, resume).
Material Management	Full material control	Tracking and tracing of individual parts, lots, batches, assemblies. Material
	and transparency	identification, real-time reporting of material consumed and material produced,
		management of material compatibility and availability, weigh & dispense support,
		material genealogy.
Warehouse Mangement Improved inventory turns inventory reduction	Improved inventory turns and	Management of material storage locationa and levels. Support material movement
	inventory reduction	within warehouses and its elements (cells, packages, silo's, containers etc). Material
		compatibility management. Integration with external warehouses and inventory
		management systems.
Labor Management Plan, measure and view activities	Plan, measure and view labor	Production calendars configuration: shifts, working time, exceptional days, and
	activities	operation mode. Accurate management and tracking of staff attended hours (Join/
		Leave) and activities on a given product against defined production time. Reporting
		details to ERP.
Equipment Maintenance	Plan and execute maintenance	Plan, create and execute equipment maintenance tasks based on observations or
Management	activities	planned preventive. Execution of task with support of instructions, checklists etc.
		Keeping track of when the request was created, started and completed. Overview of
		active maintenance requests.
Overall Equipment Efficiency	Uncover hidden potential	OEE dashboard showing current and historical availability, performance and quality
(OEE)		parameters and their contribution in the overall equipment effectiveness. Real time
		visibility and analysis capabilities to enable operational decisions. Motivates produc-
		tion teams to maximize utilization, uptime and quality.
Reporting Dashboard	Personalized view of	Easy to use dashboard that enables users to design and view reports and
	plant & production information	dashboards based on data from different sources (transactional business data,
		production information and enterprise real-time data). Supports hierarchial structure,
		drill down, export to Excel, print to PDF etc.

Contact us

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