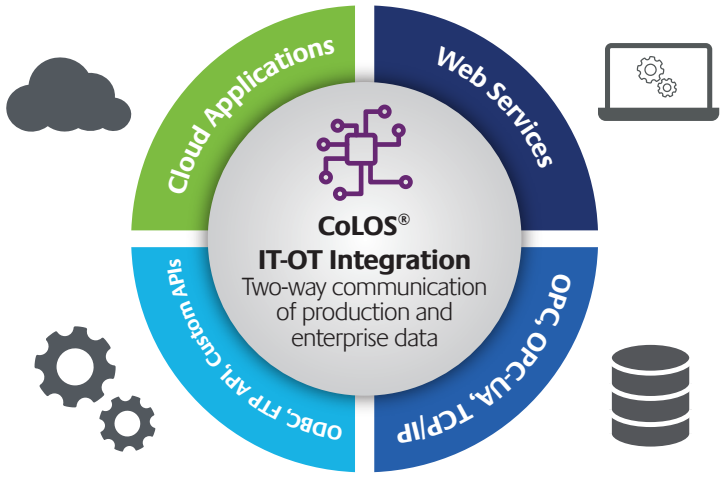
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CoLOS® Software & Solutions
IT/OT Integration



Analyze packaging line performance in real-time

Between manufacturing and selling your products, you have more important things to worry about than ensuring the right information is printed every time. You need accuracy and efficiency in your printing and coding so you can focus on producing high quality products.

CoLOS® Packaging Intelligence System comes with a variety of applications that can help you reduce waste from coding and marking errors, increasing line efficiency, and protecting brand value by ensuring printing compliance.

To streamline product packaging line and ensure interoperability, **CoLOS® IT/OT Integration** allows real-time communication between Enterprise data and equipment/technologies involved in the packaging operations for better collaboration.

Advantages at a glance

Two way communication of data

- Interconnect **packaging equipment and enterprise data system** to introduce intelligence in the printing line.
- Synergize **business systems and operational technology** to increase operational efficiencies.
- **Aggregate and process** information and data for actionable insights.

Empowering your packaging operations

- Enhance **operational efficiency** with real-time exchange of data.
- Improve operational **compliance, regulations and reporting.**
- Move away from traditional siloed operations and data locking by **bridging the gap** between the IT and OT systems.
- Limit manual entry and collection of data **reducing operational burden.**
- Complete **visibility of inventory and equipment** on the packaging line.

CoLOS® IT-OT Integration – two-way communication of production and enterprise data

Cloud Applications	Web Services IDOCs, API, PI,B2mml, Json MQTT, SOAP	OPC, OPC-UA, TCP/IP		ODBC, FTP API, Custom APIs
SAP™	ERP Systems	Robots	Vision	SCADA/HMI Systems
Oracle™	MES Systems	Scanners	Scales	Custom databases
Microsoft Dynamics™	Web browser	Coders	PLC	Goverment tax systems
Infor™	Cell phones & tablets	Labellers	Pallet labeller	Warehouse Management WMS
				Distributed Control Systems DCS

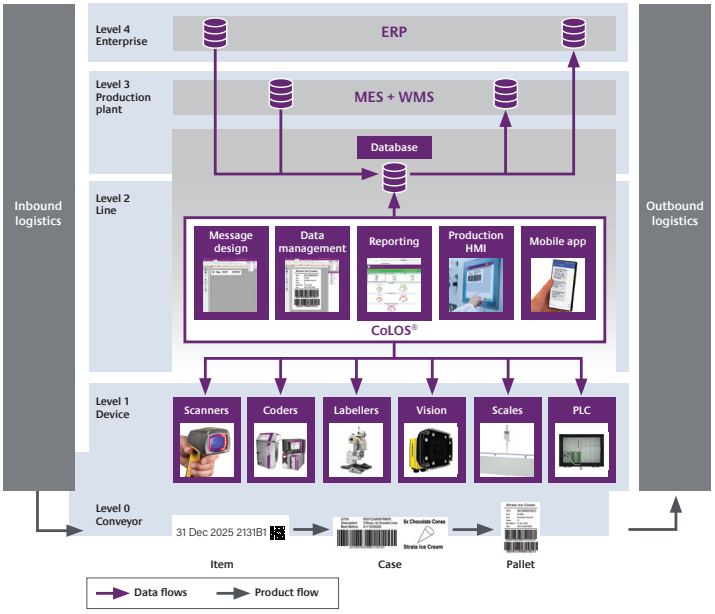
IT/OT Integration

Key use cases

Accurate data to printer: IT/OT integration allows a centralized production set-up where printers receive accurate printing data from the enterprise database, thereby reducing manual data transfers and wastage due to manual errors.

Inventory visibility: IT/OT integration allows visibility into ERP, WMS and distribution management system and controls to track and trace the inventory in real time.

Real time analytics and reporting: IT/OT integration allows to gain insights and reports on printing quality control, enabling data driven decision making.



Specifications

Features

- Support ODBC, FTP and other custom APIs for automation, warehouse management, DCS, custom database, and more.
- Integrates Production and packaging equipment such as robotics, scanners, coders, labellers, PLC, scales and more via OPC, OPC-UA and TCP/IP
- Supports ERPs such as SAP, ORACLE, Micro Dynamics etc. for cloud, on-prem and hybrid connections.
- Supports web services such as DOC, PI, B2mnl, Json.MQTT.SOAP to connect to ERP, MES, Web browser, mobile devices etc.
- Establish bi-directional data exchange, synchronization and automation of workflows via ERP connectors.

*ERPs, OPC, CLI etc are optional modules. Please refer to CoLOS® Brochure for bundle offerings.

License

Part of the **CoLOS®** family of applications which are available in different bundle sizes for all your printer, line and factory solutions. Our application modules come with information and automation interface add-ons to ensure seamless integration with your existing infrastructure.
The feature is available with **CoLOS® Line, CoLOS® Factory** and **CoLOS® Sites** as an optional module.

Compatibility

- Supports all Markem-Imaje printers with remote connections, easily storing simple to complex messages

Interface available in the following languages

- English, French, German, Spanish, Italian, Arabic, Polish, Korean, Czech, Greek, Hungarian, Russian, Romanian, Turkish, Chinese, Japanese, and Portuguese

CoLOS® V7 is for Windows 10 32/64bit, Windows 11 64 bit, Server 2012/2016/2019/2022 64 bit
Minimum system requirements: 3GB RAM, Intel 2.6 GHz (multicore CPU preferred), 5GB free hard disk space
Production UI Browser Firefox 120.0 and onwards/Chrome 110 and onwards /Edge 110 and onwards

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