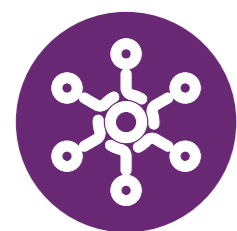




markem·imaje
a DOVER company

CoLOS[®] Sites

Software & Solutions



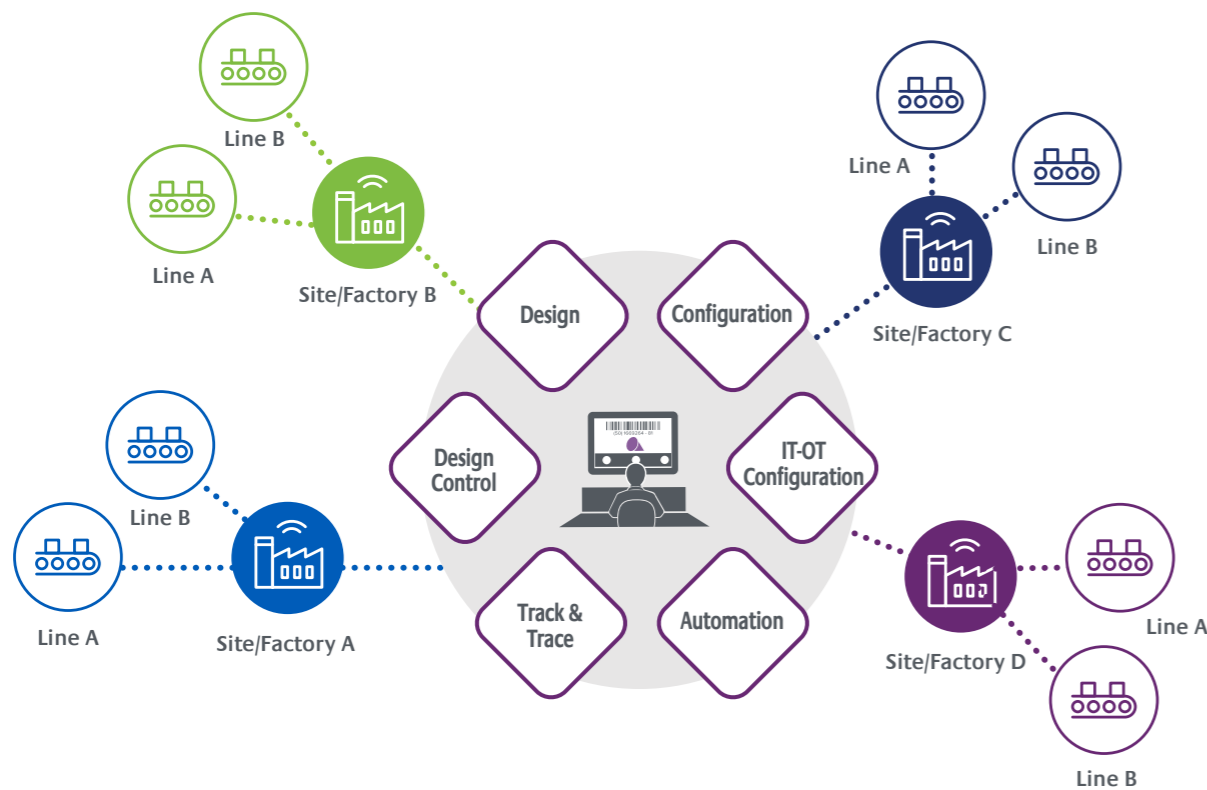
Centralize, optimize and elevate your production efficiencies

Printer Intelligence | **Packaging Intelligence** | Brand Intelligence

CoLOS[®] Sites

Centrally managed production

In today's fast-paced manufacturing world, your focus should be on quality, not worrying about printing errors or production inefficiencies. Centralize your marking, coding and labeling operations for standardized high quality output. **CoLOS[®]** Packaging Intelligence Suite helps you to manage messages, data, integration and production lines for multiple sites/factories from a central location to achieve consistency, reduce waste due to siloed coding errors, protect brand value and ensure compliance. In a scenario where an organization has multiple factories or sites to manage, **CoLOS[®]** Sites allows that the software contracts, licenses and configurations of the sites/factories, stations, lines and devices for production printing is controlled and managed from a central hub. It includes centralization of certain roles such as IT, designer and administrative personnel, who otherwise would be needed at every site.



OPERATIONAL EFFICIENCY

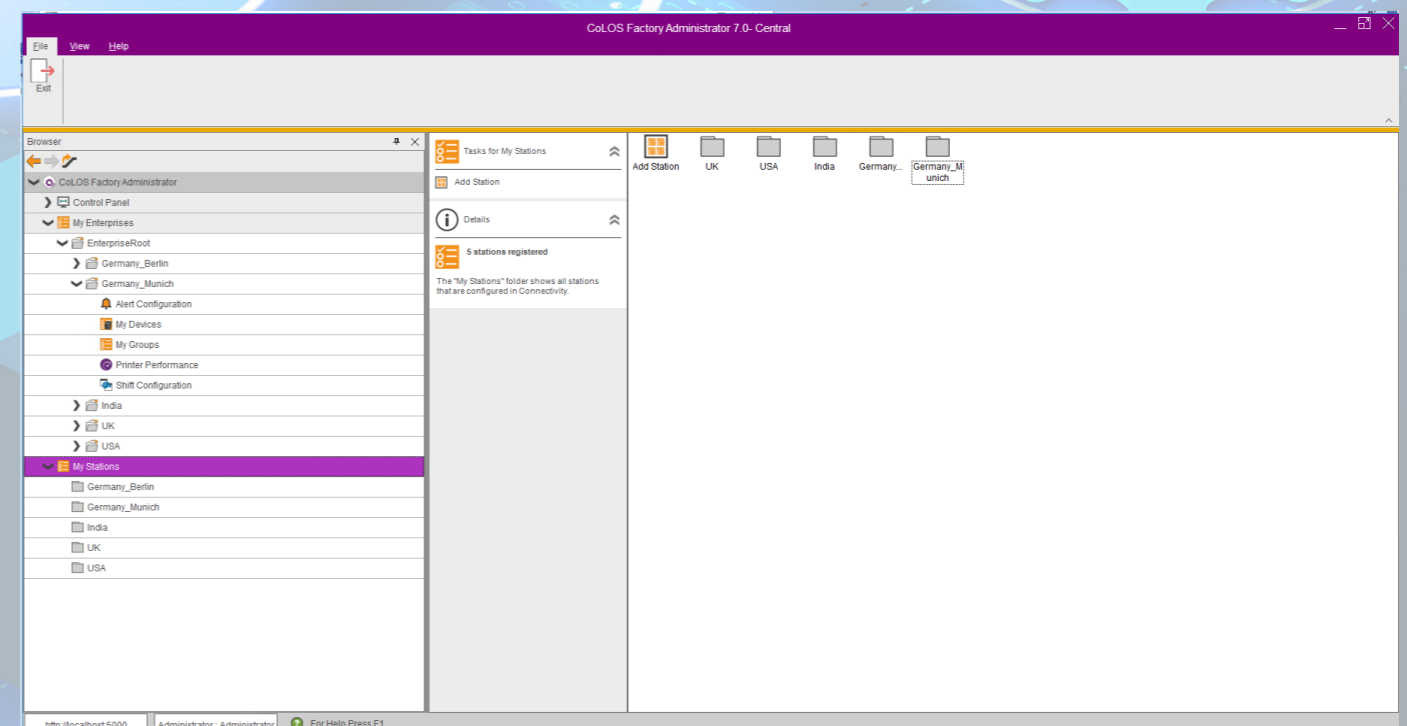
- Designer resources are better optimized as message design, data management (ERP/Database) and design control can be configured and managed centrally leading to reduced operational costs
- Optimize IT functions by outsourcing or delegating IT tasks such as software maintenance, integrations, managing ports/firewalls and security for **CoLOS[®]** software
- Centralization enables standardization of operations such as message designs, templates for SKUs, naming conventions like JobIDs, process etc., reducing inconsistencies and improving efficiency
- Reduce complexity of setting up and managing new sites

DEPLOYMENT FLEXIBILITY AND SUBSCRIPTION*

- Enhanced flexibility on deployment options for on-premises, cloud (Markem-Image hosted or 3rd party) or hybrid

Subscription benefits

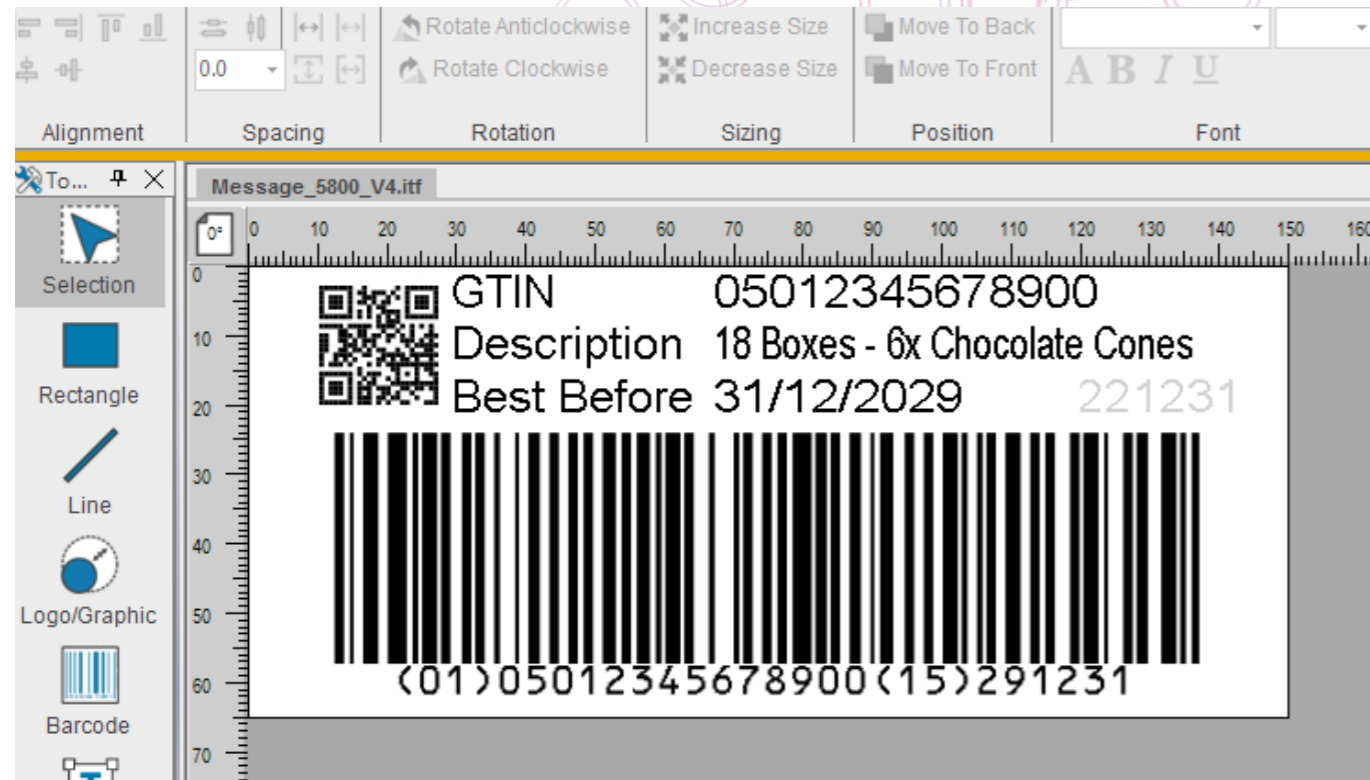
- Lower upfront investment with simplified procurement
- Recurring payments and improved predictable on annual spends instead fragmented license purchases
- Single commercial agreement across plants, sites or regions with improved visibility of entitlements, renewals
- Maintenance included with fast and easy access to the latest software version, security patches, and improvements without extra costs
- Easy to scale and expand to new lines or sites by quickly add or reduce licenses based on demand



*To be released

Centralized Message Design and Management

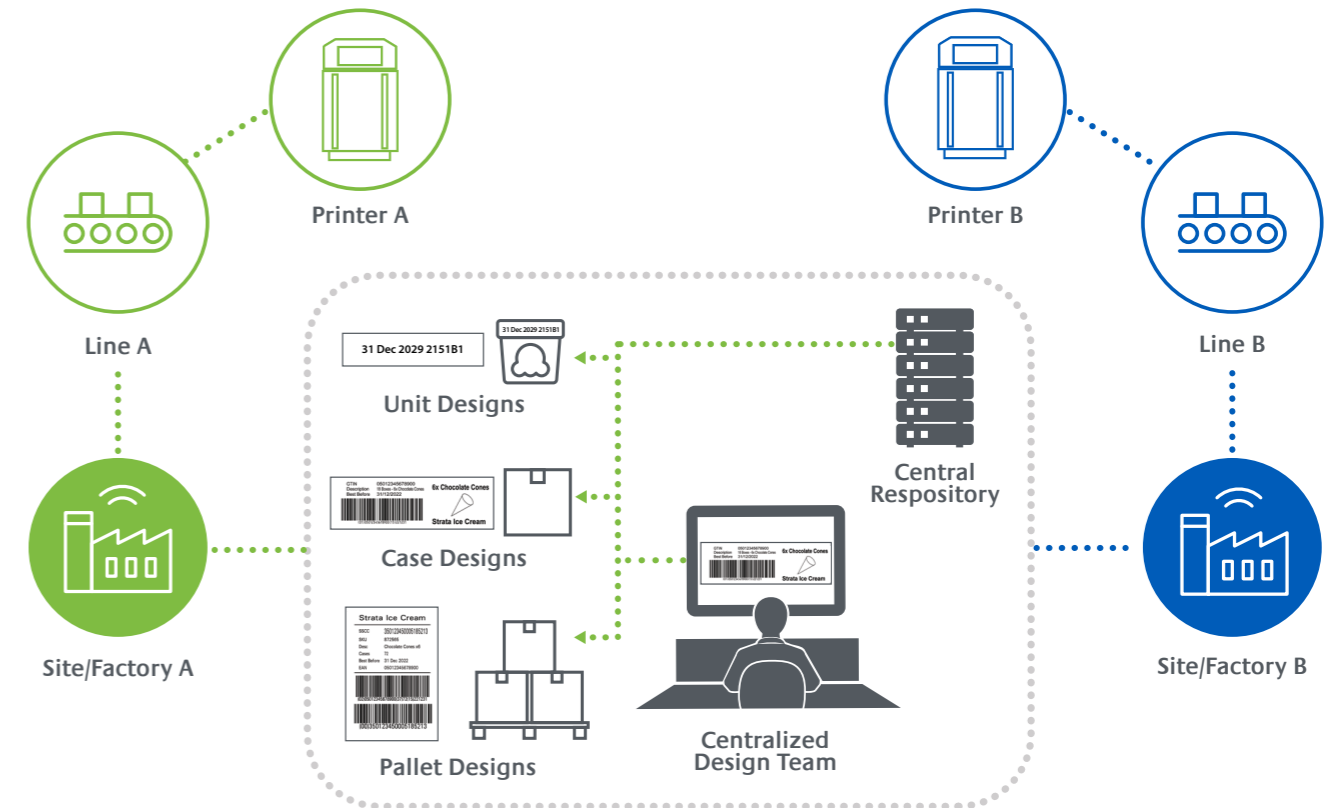
KEY USE CASES



Centrally design GS1 compliant 1D/2D barcodes

An organization with multiple production sites can be configured, controlled and managed centrally in-house or in an outsourced set-up. From message design and management to approval workflows to automating set-up and change over configurations and more.

With **CoLOS**® Site Message Design, brands can centrally create and manage compliant, complex messages for all packaging levels across multiple sites from a single interface. This ensures accuracy, consistency, and compliance with global regulations—minimizing errors, recalls, and representational risks. Suppliers gain controlled access to configure or update SKU data, keeping every product aligned with brand and regulatory standards. A centralized repository acts as the single source of truth, enabling secure, standardized distribution of designs across sites while eliminating duplication and outdated transfer methods.

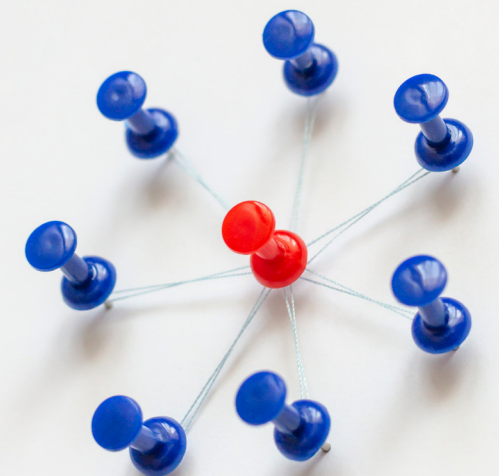


ADVANTAGES AT A GLANCE

- Centralized control for all sites and packaging levels.
- Consistent, compliant messaging across global operations.
- Enhanced collaboration between internal teams and suppliers.
- Improved production efficiency through seamless configuration management.
- Secure, single source of truth for all message designs and data.
- Follows global standards for marking and coding including 1D/2D barcodes and compliant with newest GS1 Digital Link.

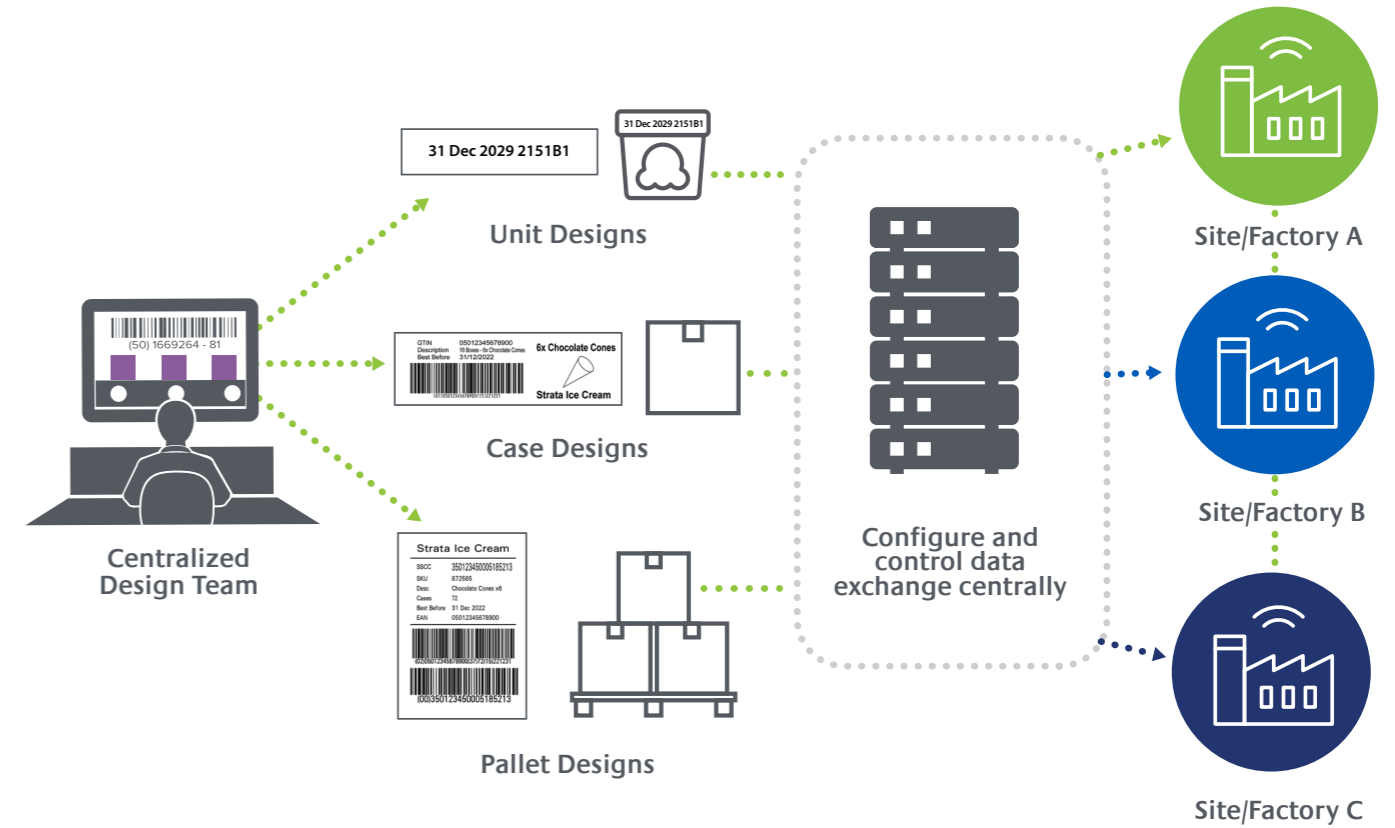
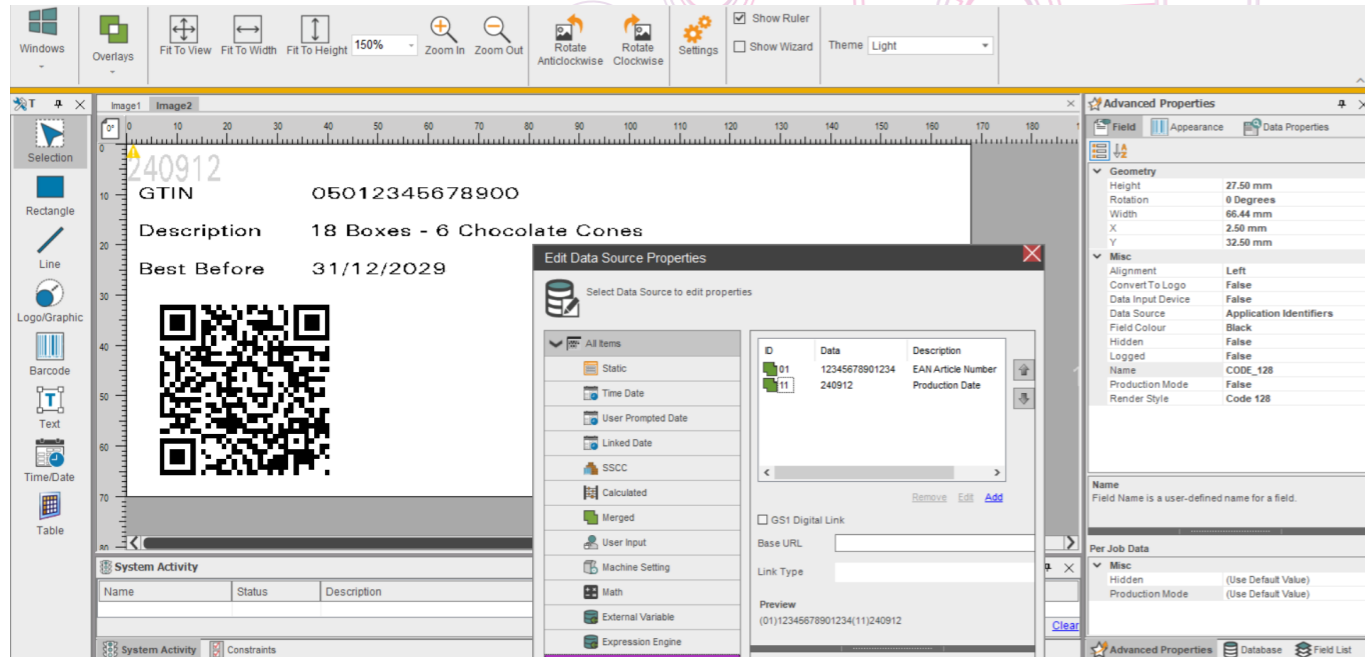
Consistency and compliance

Global food brands operating across countries need consistent, compliant labeling, while retailers sourcing from multiple suppliers require standardized formats and centralized SKU management to maintain accuracy and regulatory alignment.



Centralized Data Management

KEY USE CASES



ADVANTAGES AT A GLANCE

- Centralized data control between global and local systems for consistency.
- Automatic data population to eliminate manual entry errors.
- Accurate SKU-to-design linking for precise message generation.
- Improved data visibility across all sites and production stages.
- Seamless ERP integration.

Control the data exchange between the global/central master database ERP and sites

At early production preparation stage, Data Management from the **CoLOS®** Sites bundle enables you to centrally manage and control the linking of message design fields to a central ERP/Database or a local database in master product tables and associating individual designs to many stock keeping units (SKUs) while automatically populate messages with accurate SKU data.

Centralized Data Management and control: centrally control the data exchange between the global/central master database ERP and sites as well as the local ERP/production database and the respective sites. Manage auto population of the message fields for complete visibility and avoid manual entry or siloed site errors.

Global control, local execution

A multinational manufacturing company has multiple production sites and each has its own local ERP. The company uses a central master product information database to manage labels and messages. Centralization helps the company to retrieve the relevant messages from the global database and the respective local database to auto populate the message fields of the local production sites.



Centralized Design Control

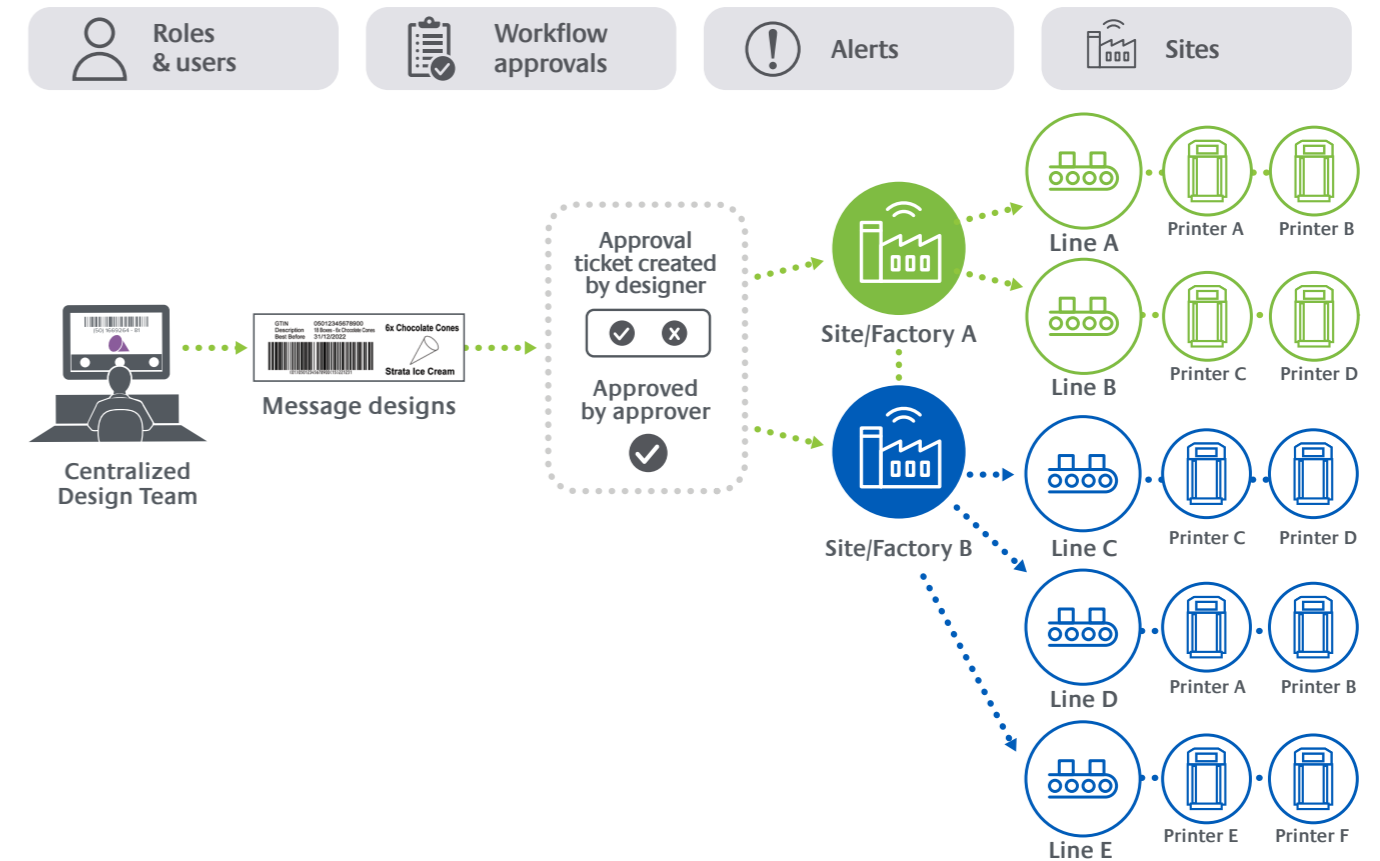
KEY USE CASES



Ensure only approved designs are deployed on the production line

At early production preparation stage, Design Control from the **CoLOS**® Sites bundle supports you by bringing control on the images to be used at various production sites and recording the audit trail. It allows configuration of user roles and customizes approval workflows.

Deploy approved messages: Design Engineers ought to ensure that messages are approved and vetted from the right authorities to meet regulatory compliances. Design Control from the **CoLOS**® Sites bundle allows to them to define users, create approval workflows and alerts centrally to ensure only approved designs are deployed on the production line at the correct site. This eliminates human errors due to wrong message design input. This flow is managed using a ticketing system for accurate tracing and auditing.



ADVANTAGES AT A GLANCE

- Controlled image usage across all production sites for design accuracy.
- Centralized approval workflows to ensure regulatory compliance.
- Defined user roles and access to maintain design integrity and accountability.
- Error-free deployment of approved messages on the correct production lines.
- Complete traceability and audit trail through an integrated ticketing system.

Compliant labeling

Global food brands operating across countries need consistent, compliant labeling, while retailers sourcing from multiple suppliers require standardized formats and centralized SKU management to maintain accuracy and regulatory alignment.



Production Control

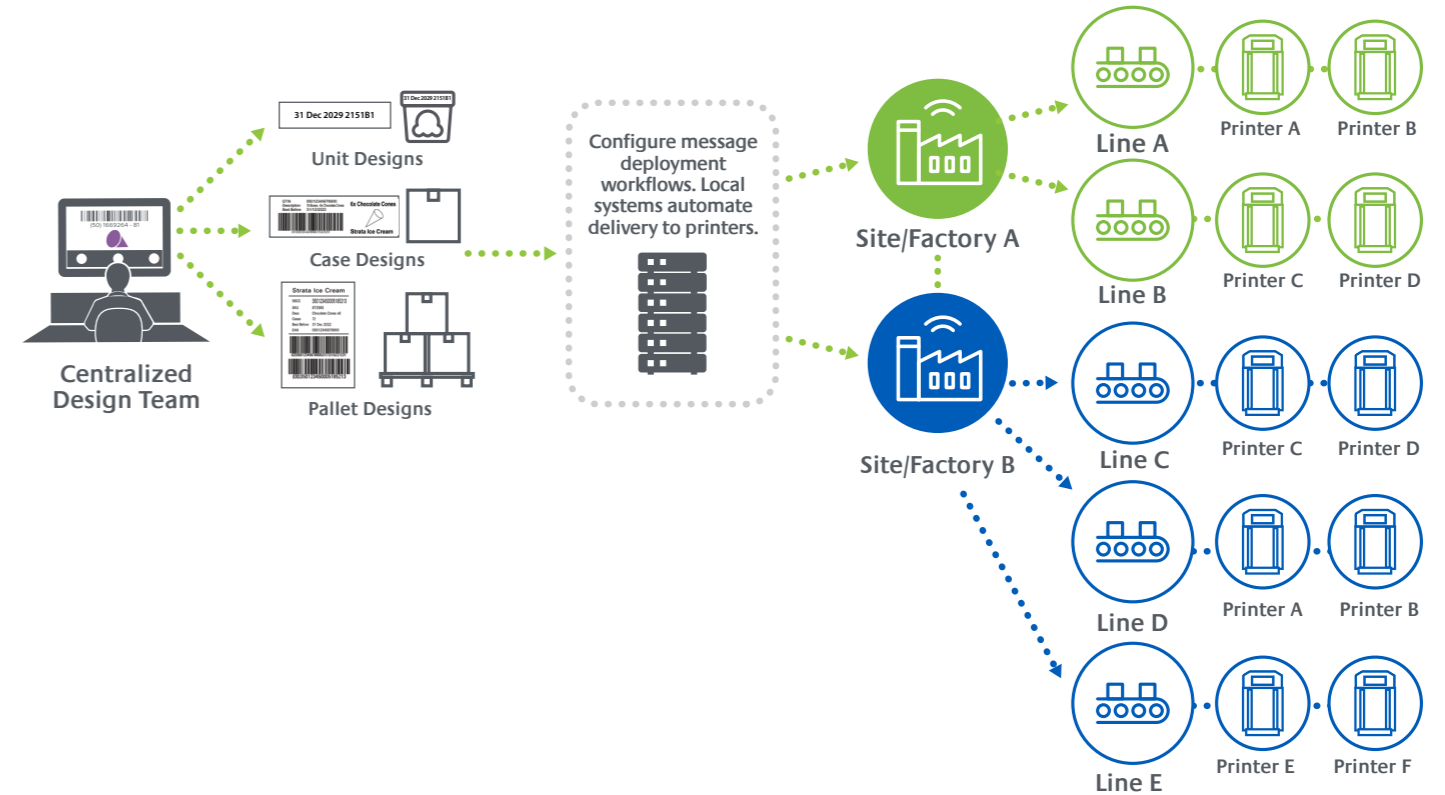
KEY USE CASES



Download complete production line jobs in one step

At production start-up, Production Control from the **CoLOS®** Sites bundle enables you to download complete production line jobs in one step from an easy-to-use operator interface or automatically from line control automation equipment.

Centrally control start-ups and changeovers: Operators can be overwhelmed with start-up checks, change-overs, entering correct messages to the printers and more resulting in inefficient use of resources. Production control enables centralized configuration of workflows. At each site, the local system automates the line from message deployment to ERP feedback. This enables faster production and optimizing resources usage to achieve better efficiencies.



ADVANTAGES AT A GLANCE

- Centralized start-up and change-over control for all lines and sites.
- Automated workflow execution from message deployment to ERP feedback.
- Faster production readiness through one-step job downloads.
- Optimized resource utilization by reducing manual intervention.
- Higher operational efficiency with seamless line-to-system connectivity.

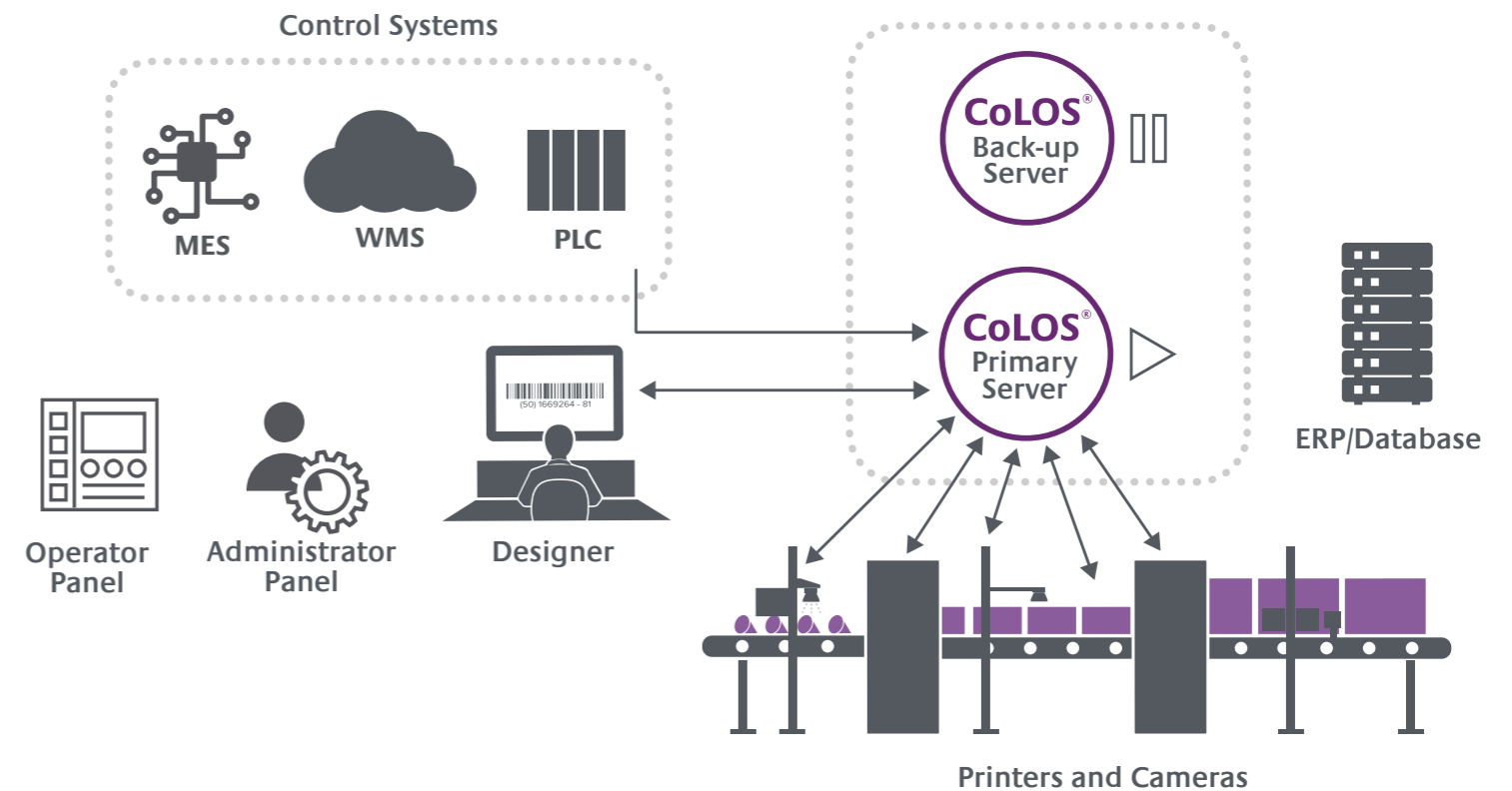
Automated message deployment

The headquarters team at a global beverage brand with multiple factories across Europe creates and approves label templates, compliant with local regulations. At production start-up, operators download complete line jobs in one step, and messages are deployed automatically to printers, minimizing errors and speeding up change-overs.



High Availability

KEY USE CASES



Ensure reduced downtime and business continuity

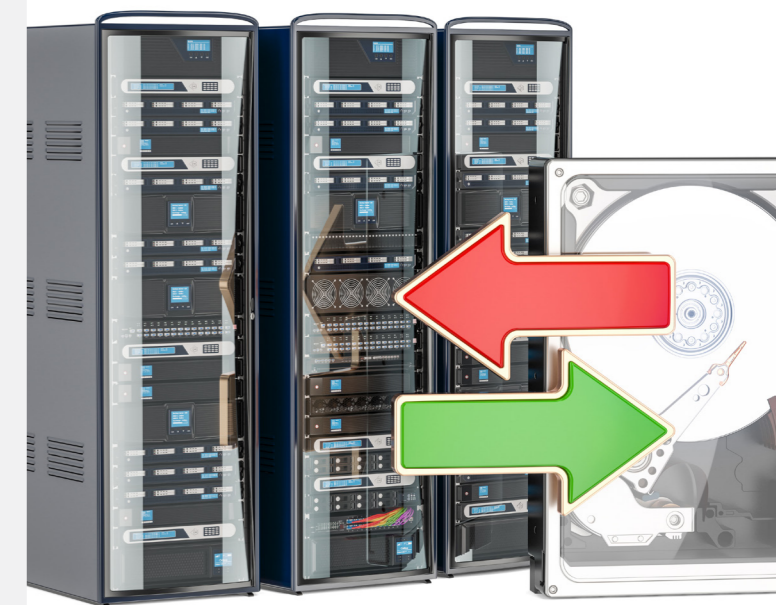
In case of server failure at any site, the configuration for setting up the sites, lines and users would be backed up at the central node and can be quickly re-configured to make the site up and running, ensuring reduced downtime and business continuity.

ADVANTAGES AT A GLANCE

- Centralized backup of site, line, and user configurations.
- Rapid recovery in case of server failure at any site.
- Minimized downtime keeping production running smoothly.
- Ensured business continuity across all sites.

Swift recovery

A beverage manufacturer with sites in several locations like India, Germany etc. If the Germany site's server fails, the central factory system provides an immediate backup of all configurations, enabling the site to be reconfigured and production to resume at the earliest.



CoLOS[®] applications tailored to your needs and size

Part of the CoLOS[®] family of applications which are available in different bundle sizes for your printer, line, and factory needs. Our applications come with information and automation interface add-ons to ensure seamless integration with your existing infrastructure.

CoLOS[®] Lite*

For small businesses and early-stage start-ups

Design & store compliant labels in cloud, assign them to printers and print with a range of Markem-Imaje printers.

CoLOS[®] Base

For small businesses and early-stage start-ups

Design compliant labels, assign them to printers and print with a range of Markem-Imaje printers.

CoLOS[®] Line

For growing and small-medium businesses

Design compliant labels, integrate, control and automate printing operations on a single line.

CoLOS[®] Factory

For large and global businesses

Design compliant labels, integrate, control and automate printing operations on multiple lines.

CoLOS[®] Sites

For large businesses spread across multiple locations

Centrally design compliant labels, integrate, control and automate printing operations across multiple sites/factories.

CoLOS[®] Embedded

For packaging equipment OEMs

Drive the widest range of primary, secondary and tertiary printers from Markem-Imaje simply by embedding the full power of CoLOS[®] software.

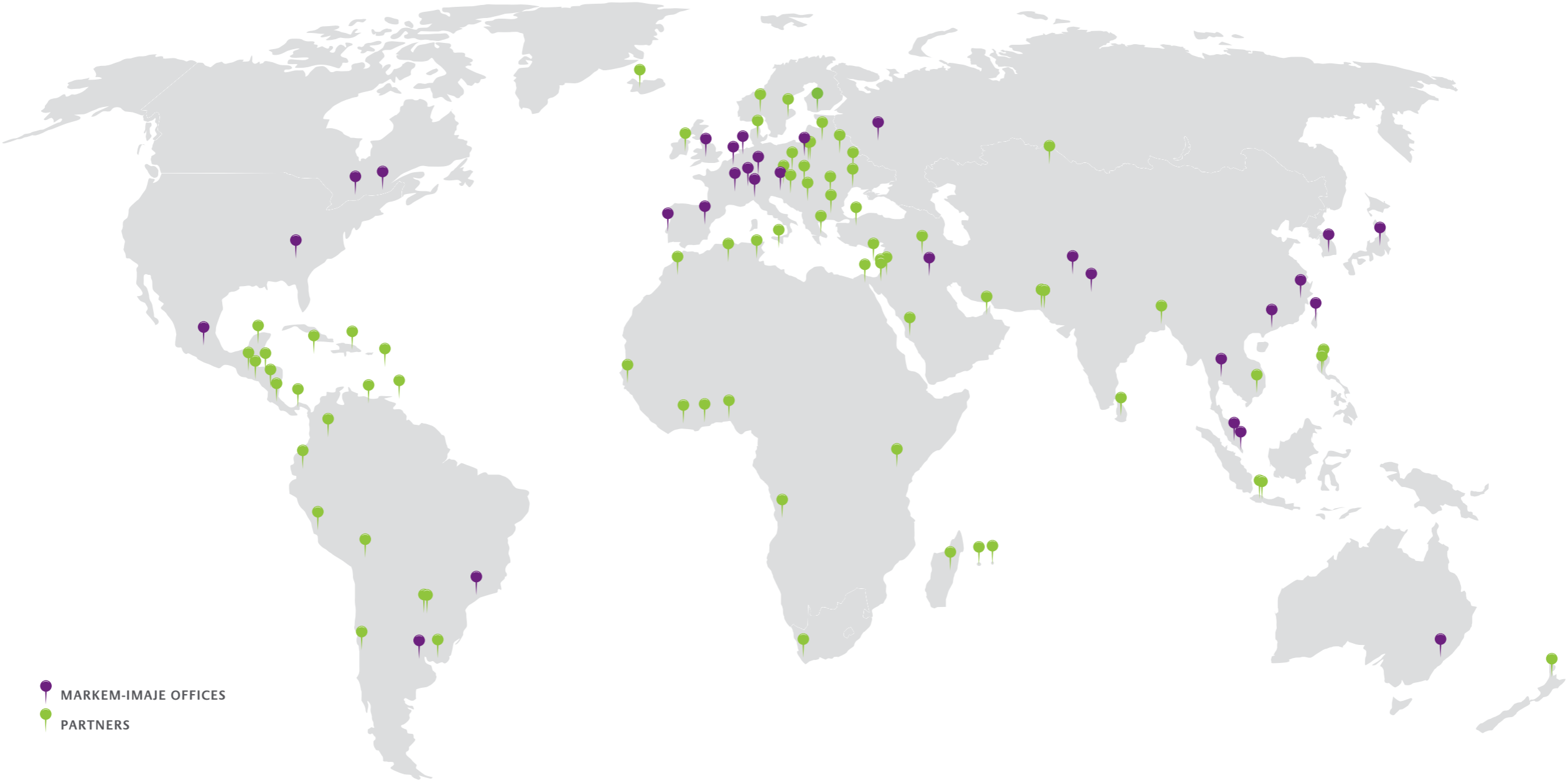
CoLOS [®] Software License	CoLOS [®] Lite*	CoLOS [®] Base	CoLOS [®] Line	CoLOS [®] Factory	CoLOS [®] Sites*	CoLOS [®] Embedded
Printers	1 printer at a time	1 printer at a time	Up to 4 networked printers	Up to 25 networked printers	Up to 25 networked printers	Up to 4 networked printers
License Type	Subscription	Perpetual	Perpetual	Perpetual	Subscription	Perpetual
Message Design	Core	Core	Core	Core	Core	-
Data Management	Core	Core	Core	Core	Core	Core
Production Control	-	-	Core	Core	Core	Core
Optional/Configurable	-	-	Optional/Configurable	Optional/Configurable	Optional/Configurable	-
Vision Solution (Mark & Read)	-	-	Optional/Configurable	Optional/Configurable	Optional/Configurable	-
Paperless Quality	-	-	Optional/Configurable	Optional/Configurable	Optional/Configurable	-
Printer Performance	-	-	Optional/Configurable	Optional/Configurable	Optional/Configurable	-
Overall Equipment Effectiveness	-	-	Optional/Configurable	Optional/Configurable	Optional/Configurable	-
Serialization	-	-	Optional/Configurable	Optional/Configurable	Optional/Configurable	Optional/Configurable
Pallet Track (Auto & Manual)	-	-	Optional/Configurable	Optional/Configurable	Optional/Configurable	-
Connected Consumer	-	-	Optional	Optional	Optional	-
High Availability	-	-	N	N	Y	-
Deployment	Markem-Imaje Cloud	On-premises	On-Premises	On-Premises	On-Premises, Markem-Imaje Cloud, Customer Cloud	On-Premises
Storage	1GB	NA	NA	NA	2GB	NA

*To be released

About Markem-Imaje

Markem-Imaje, a wholly owned subsidiary of Dover Corporation, connects products and protects brands through intelligent identification, traceability and consumer engagement solutions. We offer the industry's most comprehensive range of marking and coding systems seamlessly integrated with trusted software, services and consumables. Over 50,000 customers worldwide partner with us to help them unlock the power of information in codes.

With decades of proven expertise provided through the most extensive global network, we empower our customers to optimize supply chain efficiencies, achieve sustainability and compliance objectives, keep products safe and engage their consumers. This is intelligence, beyond the mark.



CoLOS® V7 is for Windows 10 ,Windows 11, Server 2016/2019/2022/2025
Minimum system requirements: 8GB RAM, Intel 2.6 GHz (multicore CPU preferred), 64GB free hard disk space
Production UI Browser Firefox 148.0 and onwards/Chrome 145.0 and onwards / Edge 145.0 and onwards.

We reserve the right to amend the design and/or specifications of our products without notice.
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