

Manufacturing Execution

Release notes

Version: 6.3.0

Publication date: 22 July 2026

Highlights

This release contains selected products and modules available for new installations, including newly available products and modules. ([See New in this release.](#)) This is a major version release that bundles significant new capabilities that may introduce high impact changes or new hardware requirements. In addition, several new features were added, along with bug fixes.

These release notes provide a high-level overview of key changes and their impact on users.

NOTE: Installation Manager 3.1.0 is required. For more information, see the latest Installation Manager Release Notes and Manufacturing Execution Installation Manual.

Security enhancements

This release delivers several important security enhancements in alignment with new regulatory standards and requirements, such as the Cyber Resilience Act and OT/IT network compliance.

With this upgrade, the AXIN Software Manufacturing Execution platform addresses emerging risks and customer requirements with strengthened support for zero-tolerance environments and secure communication within factories and between factories and data centers.

These changes apply to all AXIN Software Manufacturing Execution modules included in this release.

Key changes include:

.NET 10 platform upgrade

The AXIN Software Manufacturing Execution platform was upgraded to .NET 10 to maintain supportability and deliver the following improvements:

- Built-in security protections and improved stability across all Manufacturing Execution modules and products.
- Faster installation, improved performance and modern runtime to reduce warnings and compatibility issues.

- Reduced load times, eliminating up to 95% wait time for menu loading at login, 97% wait time for the Menu Editor and 78% wait time for initializing view filters.
- Long-term support and maintenance.

Users can expect the same UI and workflows - menus, views, reports and workflows are unchanged - now running on a modern and supported runtime.

NOTE: Windows 7 and older are no longer supported with this upgrade.

TLS support

AXIN Software Manufacturing Execution now supports TLS encryption for all communication between its components, including communication between clients and servers.

This is achieved by introducing a reverse proxy, called *proxyman*, which runs in IIS and can be configured with a user-provided TLS certificate to enable HTTPS communication. Additionally, a NATS message server now supports TLS connections.

The certificate is provided by the customer, who is responsible for ensuring the certificate is valid and properly configured.

Upgraded message system

In order to comply with the OT/IT Network Blueprint, the message system was replaced with a new NATS message broker that runs in a standalone application and ships with the Base module.

Because the message server now requires authentication, clients that wish to connect must provide their bearer token in order to authenticate, and authentication completes before attempting to connect to the message service.

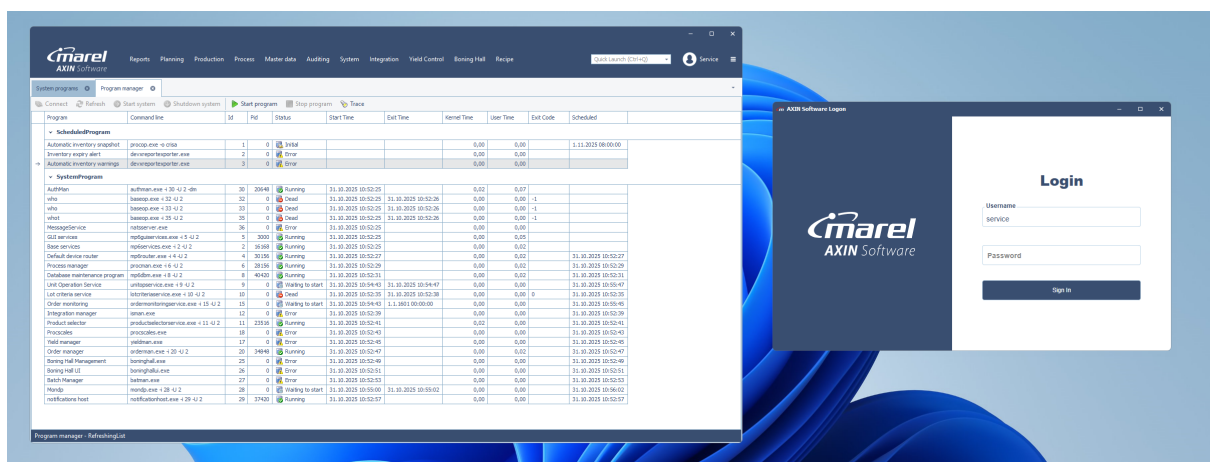
Enhanced login security

The authentication system was upgraded to a dedicated, modern security service called *AuthMan*, which:

- **Centralizes security** - One dedicated service handles all authentication instead of being mixed with other system functions.
- **Uses modern encryption** - Industry-standard security methods protect your password and login information.

- **Prevents unauthorized access** - Implements multiple security checks to ensure only authorized users can access the system.
- **Automatically protects data** - Security certificates are created and managed automatically - no complex setup needed.

For end users, login works exactly the same way as before, though UI improvements were made to the authman **Login** page and rounded corners were added to the WinUI (Windows 11 only).



Existing user names and passwords still work, and user permissions and data access remain the same, with greater protection behind the scenes.

Signed deliverables

Also in compliance with the Cyber Resilience Act, the signing and encryption certificate configuration was removed from the **XML data store**.

Instead, signing and encryption certificates are automatically created when *AuthMan* generates a token and are added to the current users certificate store and cached in memory for future use.

Improved insecure login flows

A Negotiate service was added to handle replay attacks and improve security during login flows. All password flows now hash the password before sending it over the network. This carries forward the same password hashing behavior from the previous framework into the new one.

Authentication for Web API endpoints

All Web API endpoints now require authentication by default in compliance with the Cyber Resilience Act.

Web module is now deprecated

As part of the overall security upgrade, the **Web** module is now deprecated and is no longer available for installation as of this release. Dashboarding functionality is now enabled through the **Data Visualization** module.

Replaced dotnetCHARTING

The dotnetCHARTING implementation was replaced with **DevExpress XtraCharts**. This may affect the look and feel of some reports and control screens, such as Weight distribution, Throughput and Histogram reports in **Grading** and Station history and Sub-station history dashboards in **SensorX**.

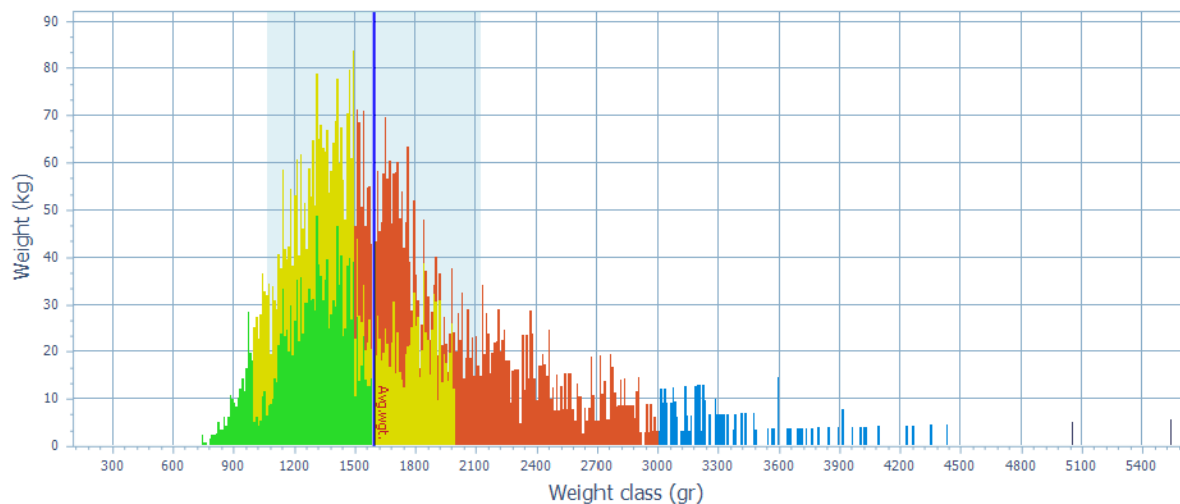


Figure 1 Chart example

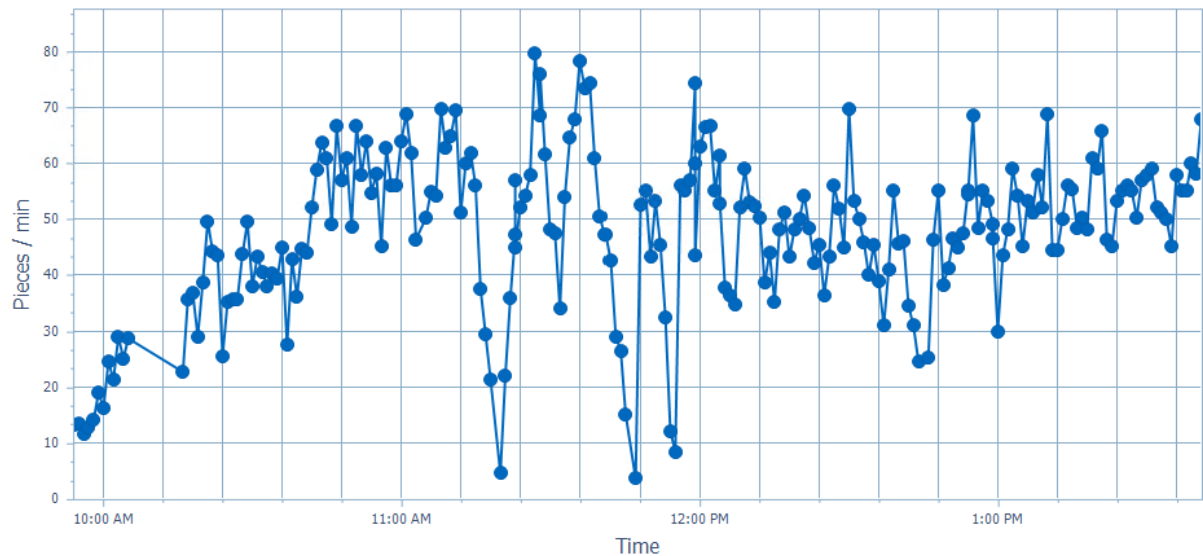


Figure 2 Chart example

Support for live view on IP cameras

Live view is now supported on IP cameras used for QC inspections.

FleXicut Jet now supported

FleXicut now supports **FleXicut Jet** machines.

Included in this release

The following AXIN Software Manufacturing Execution modules and products are included in this release from version 6.2.5:

Platform modules			
Manufacturing Execution module	Module version	Product name	Disclaimer
Base	8.0.2	Not a sold product	All client licenses are delivered as part of Base.
Data Visualization	5.0.0	Not a sold product	
Process	7.0.3	Final Goods Manager	
		Inventory	
		Labeling	
		Line Profiler	
		Order Manager	
		Time Registration	
ProcessAPI	5.0.1		
Web UI	5.0.0	Not a sold product	
Application modules			
Manufacturing Execution module	Module version	Product name	Disclaimer
Bonus Solution	2.0.0	Bonus Solution	
BoxSorter	4.0.1	Not a sold product	
Bpl	4.0.1	Manufacturing and Logistics Integration (M&LI)	Execution engine for M&LI workflows and the M&LI Workflow Editor
Integration.Bpl	4.0.0		Module required to connect M&LI workflows to the Integration module
Process.Bpl	4.0.0		Module that provides Process-related functionality for M&LI workflows

Fish	5.0.1	Purchase Order Reweighing (not a formal product)	
FLS	4.0.2	Crate and Box Distribution Solution	Requires Engineering support
Generic Device Application	3.0.1	RoboPacker	
		RoboOptimizer	
Grading	5.0.0	RoboBatcher	
		Accuro	
		Grader	
		Compact Grader	
		Dynamic Order Control (see SPacker)	
		FleXisort	
		SmartSort	
		Takeaway with Integrated Checkweigher	
		Takeaway with Terminal	
Integration	5.0.0	Integration Services	
IRIS	5.0.0	Intelligent Reporting, Inspection and Selection (IRIS)	
Manual Yield Sampling	3.0.0	Manual Yield Sampling	
MU1	3.1.0		Utility module, separated from Base for simplicity in maintainance and updates
OEE	6.0.1	OEE	OEE supports the following devices: I-Slicer (135, SC250, 3300 and 3400)

			• WPL • Grading • Checkweighing • GROA / OEEIO / OEE Generic Line
OptiPack	5.0.0	Packing	
		Box Management System (BMS)	Solution not sold as a standard product
		Mcheck2	
		Multihead Weigher	
		Packing Scale License	
		SpeedBatcher	
		TargetBatcher	
PDC	5.0.1		
PDS	6.0.1	PDS	
Portioning	5.0.0	FleXicut	
		I-Cut (single lane)	
		I-Cut (dual lane)	
QC	4.0.2	Quality Control	
QC Scanner	4.0.0	QC Scanner	
Recipe	5.0.1	Recipe	
Salmon Depalletizer	3.0.0	Salmon Depalletizer	
SensorX	5.0.0	SensorX	
SmartWeigher	5.0.2	SmartWeigher	
SPacker	4.0.0		Requires Engineering support
Stork Solution	3.0.0	Not a sold product	

Trimming	6.0.0	Trimming	
		Manual Trimming	
		Fish Streamline 900	
		Poultry Streamline 900	
		Poultry Streamline 1100	
Unit Operations	5.0.0	Unit Operation Station	
VID	5.0.0	Fillet Distribution	Not available without first contacting Engineering
Weighbridge	5.0.0	Not a sold product	
WExport	4.0.0	Not a sold product	Requires an Integration license.
WPL/OCM	4.0.0	Weigh Price Labeler	Requires Engineering support
		Inline OCM 9500	
Yield Control	5.0.0	Yield Control	
		Flowscale	
		Yield Registration Device	

New in this release

The following modules were also added as part of AXIN Software Manufacturing Execution in version 6.3.0:

Manufacturing Execution module	Module version	Product name	Disclaimer
FleXicut	2.0.0	FleXicut Jet	
Labeling	7.0.0	Labeling	
MediaPlayer	2.0.0	MediaPlayer	

Other highlights

Base

New features and improvements

Trace messages go through the message broker

Trace messages now go through the message broker to ensure compatibility with the OT network blueprint.

Added **Encrypt** property to **MpsSystem** config in **innova.config**

There is a new **encrypt** property in the **MpsSystem** config in the **innova.config** file. This is set to "False" by default. A new variable was added to the default **DatabaseConnect** string that uses this property, **Encrypt=[encrypt]**.

Why

Microsoft changed the default value of this setting from "False" to "True" in newer versions of their packages. The property is set to "False" by default in the **MpsSystem** config to keep the same default settings as before.

Impact

This does not change the behavior of the system unless the encrypted property is set to "True" or "Strict", which was also possible before by manually adding it to the **DatabaseConnect** string. The only change is that it is now required to be present in the connection string.

Set **Encrypt** property in the Toolbox when creating a new database

There is a new option in the the Toolbox to set this property when creating a new database.

Although the default value for **Encrypt** is "False", it is recommended to set it to "True" when possible. Setting **Encrypt** to "True" requires the following:

- The server must be configured with a valid certificate.
- Clients must trust this certificate.
- If these conditions are not met, then a **SqlException** will be thrown.

Toolbox improvements

Additional improvements were made to the **Toolbox**:

- There is now an option to set the **Use HTTPS** property when creating a new database.
- Migration tasks now run commands directly without spawning *baseop*. **Install system** after migrations also now runs a separate task. In addition, standard tools are now loaded directly. Other tools are loaded dynamically.
- When launching the **Quick Config** in the **Toolbox**, users are now prompted to sign in to AXIN SoftwareManufacturing Execution to authenticate.

Add Employee column to System program log

An **Employee** column was added to the **System program log** to see which employee stopped or started system programs.

Introduce incremental reconnect for socket connections

Incremental reconnect for socket connections was introduced so that reconnects can be made faster than 60 seconds if remote service is immediately available again.

Flatten out build

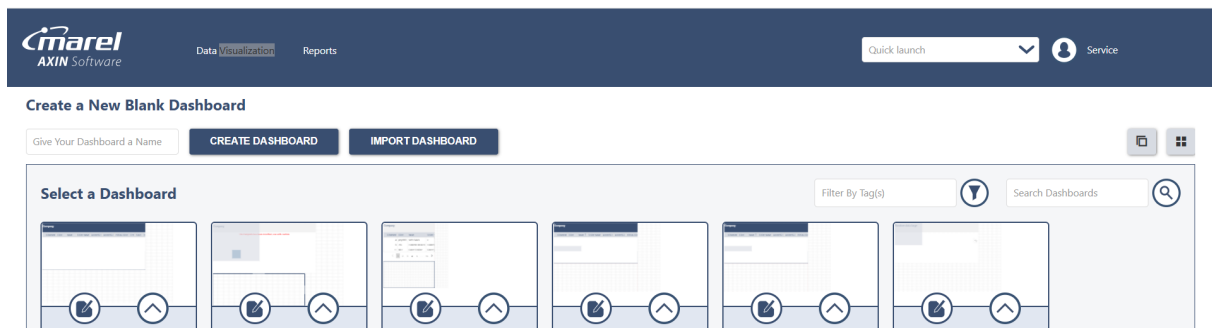
Everything is now built in the root directory and there is no **/Apps** folder anymore. Output size has gone from 3.8 GB to 500 MB.

Data Visualization

New features and improvements

Import a complete dashboard

An **Import dashboard** button was added to the dashboard overview page to enable importing and saving a complete dashboard.

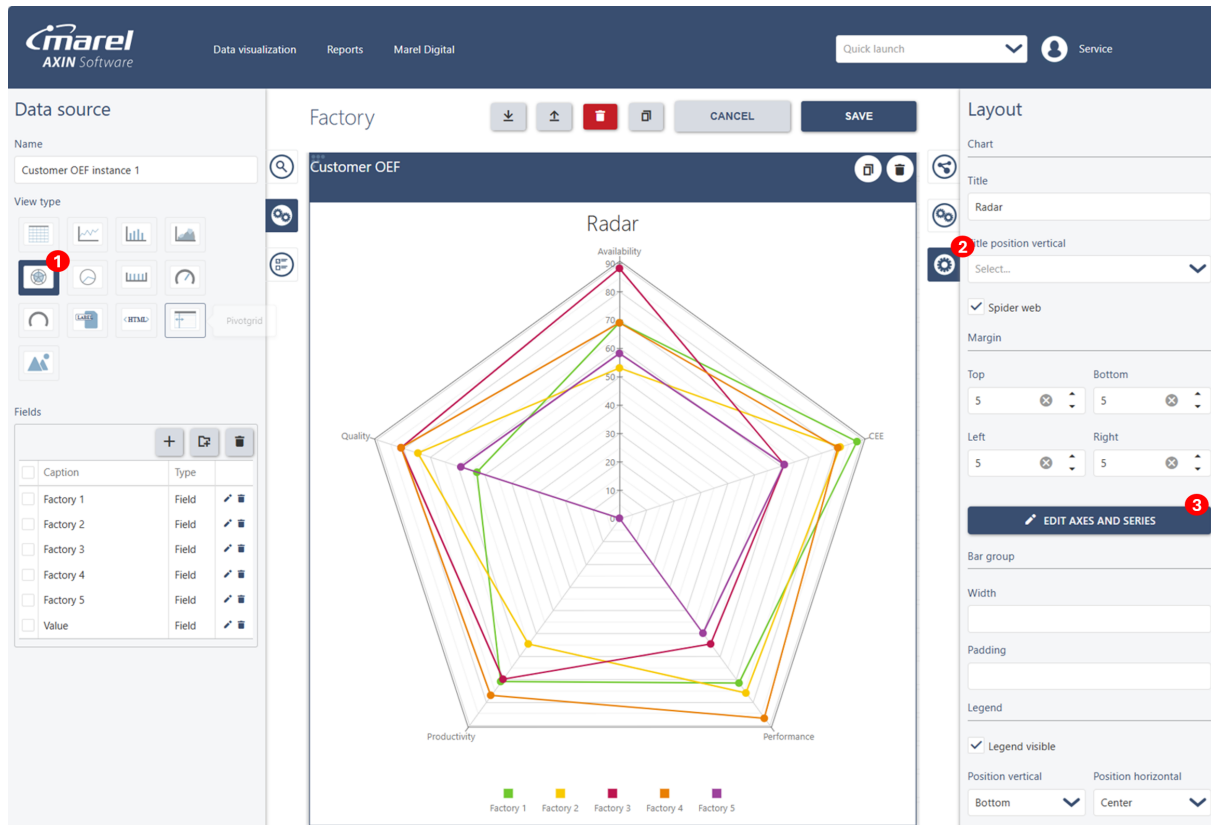


Note that if a dashboard with the same GUID already exists or if the data source type does not exist in the current system, then the dashboard import will fail.

Radar chart type

A new **Radar chart** type was added to the Data Visualization dashboard designer:

- Radar chart (1) support was added to the dashboard designer to add and configure radar chart components.
- In **Layout settings**, it's possible to toggle between a spider web chart and a radar chart (2).
- Select **Edit axes and series** (3) to configure the axis, series and appearance of the chart.



Show or hide chart series from the legend

You can now click a legend item on a chart to toggle the visibility of the corresponding series at runtime. The legend marker fades to indicate that the series is currently hidden, and clicking the item again brings the series back.

The setting is not stored with the dashboard and resets when the dashboard reloads. This item is available on standard charts and radar charts. Pie charts do not support this feature.

FLS

New features and improvements

Remove CutPatternProductSource

Because CutPatternProductSource used CutPattern from the **Deboning** module to find a material, it has been removed so that the **FLS** module no longer has a dependency to the **Deboning** module.

Integration Services

New features and improvements

Changes to WCF service configuration

Changes were made to the WCF service configuration. The `isman.exe.config` file is no longer used to configure WCF services. Two new config files are used instead:

- `{ProgramData}\Integration\wcf.config`: Similar to the old `isman.exe.config` file, but some legacy configuration elements that are no longer supported were removed.
- `{ProgramData}\Integration\wcf.services.json`: Contains the base addresses for the services because the `<host>` tag is no longer supported in the WCF configuration file. The reason for this is that WCF is no longer officially supported in .NET Core, so changes to how the service is initialized were required.

The affected services are the Job portal, Query portal and Import portal.

In addition, a new configuration property was added to enable the Job portal service, `EnableJobPortalService`, which should be set to "True".

Transfer Hub communication upgraded to REST

The Transfer Hub, which is used for transferring orders and shipments between sites, was upgraded from SOAP/WCF to REST (Web API). This is a security update because SOAP/WCF has been deprecated by Microsoft.

All existing Transfer Hub functionality (sending, receiving, acknowledging, re-sending and failing transfers) continues to work as before.

Important: Before updating sending/receiving systems to Integration 5.0.0, the hub system **MUST** be updated to at least Integration 4.2.0 first.

Important: The hub system **CANNOT** be updated to Integration 5.0.0 unless all sending/receiving systems have been updated to at least Integration 5.0.0 first.

Important: Hub systems that are updated to Integration 5.0.0 no longer support sending or receiving from Innova V5 systems.

For more information, see the *Integration Services Installation and Configuration Manual*.

Hosting services in IIS is no longer supported

Hosting integration services in the IIS using .svc files within `IntegrationServiceFactory` has been removed. The standard TLS solution using the new proxy service in the Base module should be used.

Added ExportItem to IBplExportHandler

`ExportItem` was added to `IBplExportHandler` alongside the implementation in `BaseExportHandler`.

OptiPack

New features and improvements

Removed Item throughput and Pack throughput reports

The **Item throughput** and **Pack throughput** reports are no longer compatible with the current AXIN Software Manufacturing Execution framework and were removed.

User-friendly name added for packing station configurations

User-friendly names are now used for **Packing station** configurations.

Multiple configurations can be applied to a selected station in the **Packing System setup** view.

Selecting **Configure** in the menu bar above the **Station detail** tab opens a list of available configurations for the selected station. All configurations in the list now have a user-friendly name to make it easier to see at a glance which settings to update.

The screenshot shows the 'Packing System setup' window. The 'General' tab is active, displaying fields for Name (Complex), Short name (Complex), XML (A), Code (bssy0002), and System (Packing). The 'System' tab is also visible, showing Site (Marel), System program (Packing), System type (!Packing), and Version.

Below the tabs is a 'Stations' section with a table of stations. The table has columns for Name, Station number, Process unit, and various configuration options. A red box highlights the 'Configure' button in the menu bar above the table, which has opened a dropdown menu showing two configuration options: 'CheckweigherConfiguration' and 'A642Configuration'.

!!Name	!!Station number	!!Process unit	!!Printer 1	!!Printer 2	!!Printer 3	!!Assembly
A642	3	A642-PU				
M1100	2	M1100				
			Create pack (base)			

Process

New features and improvements

Add authentication for all Process module endpoints

Endpoint security was enhanced by rolling out centralized OAuth authentication through the new **Authentication manager (authman)** service in Base.

All supported endpoints now rely on authman for token validation and authorization, which provides stronger security, consistent behavior and cleaner architecture.

Split Process and Labeling

Labeling is now a separate module and is no longer embedded in the Process module.

Overview

Labeling was removed from the Process module, driver/client code was updated and Label designer issues were fixed. In addition, some components now instantiate label/print services via reflection to reduce static coupling.

What changed

Process and Labeling have been split, and Process now uses reflection for label preview and printer manager instantiation.

Interfaces for `PrinterManager` and `LabelPrinterClient` were added to `Process.DataEngine` so that Process can call labeling functionality via reflection.

A Label designer drag-and-drop serialization issue was fixed by removing `[Serializable]` from designer items.

The Installation Manager now ensures that users install Labeling when upgrading.

Why it matters

Module separation reduces compile-time coupling and clarifies deployment boundaries but requires Labeling to be installed for certain runtime features (e.g., label preview, printing).

Fixes to designer serialization improve label editing reliability.

Add .xlsx export support in the Report exporter.

Now the .xlsx format is supported in the **Report exporter**.

It is now possible to configure whether or not to create scale records on a unit operation level

Unit operations now have a configuration property, `CreateScaleRecords`, which can be used to override the `DefaultCreateScaleRecords` switch in `Marel.Mp6.Process.Services.UnitOperations.UnitOperations.Common.UnitOperationConfiguration` in the XML data store.

- `CreatePack`
- `CreateItem`
- `CreatePallet`
- `CreateStack`
- `UpdateItemContents`
- `UpdateItemWeight`
- `UpdatePackContent`

Include item packaging in pack tare

A new configuration property was added to the `CreatePack` unit operation:

RecordSimplePackPackagingIntoPkregsIncludeUnitPieces: If

`RecordSimplePackPackagingIntoPkregs` is active, then this property indicates whether to include unit pieces as well.

- The existing `RecordSimplePackPackagingIntoPkregs` configuration property registers the pack packaging details into `proc_pkregs`.
- The new `RecordSimplePackPackagingIntoPkregsIncludeUnitPieces` property includes piece packaging details into `proc_pkregs` for the same registered pack.

Customer product override short name is now applied to products when applying overrides.

The short name from customer product overrides was not being applied to the product. This was fixed.

Customer and Orderline BOMs are now applied to Material when applying overrides

The bill of material (BOM) from Customer or OrderLine overrides were not being applied to the Material. This was fixed.

QC

New features and improvements

Remove legacy reports

The following reports were removed because they were based on outdated technology and are no longer supported:

- Inspection Graphs report
- Trend Inspections report

Trimming

New features and improvements

Support `acceptedTypes` instead of `acceptTypes` in `StationConfiguration`

Previously, AXIN Software Manufacturing Execution used the `acceptTypes` attribute in the LogiFlex `StationConfiguration` class. However, LogiFlex expects `acceptedTypes` in the `StationConfiguration` class.

The attribute has now been renamed to `acceptedTypes` in Manufacturing Execution to align with the expected LogiFlex attribute name.

This change affects the LogiFlexInput controller, which downloads a station configuration to the stations.