

# Andea GUIDE:

## CUSTOMIZED VS OUT-OF-THE-BOX SOLUTION IMPLEMENTATIONS

Loading...



# WHAT

## FUNCTIONALITIES AND CAPABILITIES ARE DELIVERED WITH THE APRISO PLATFORM?

DELMIA Apriso platform is a powerful system designed to be used in many different production environments and covers a wide array of business requirements. When implementing Apriso, it is recommended that you first focus on implementing functionalities that will deliver the most value to your company. It is also worth discussing and keeping track of other needs that may become important in the future, as this can affect the solution's overall design.

First, let us mention the three key frameworks that come with Apriso:

- **Framework to integrate with 3rd party systems like Machine Integrator for automation and Business Integrator for ERPs**
- **Framework to develop, deploy and run business functions or processes like Process Builder and Global Process Manager**
- **Reporting and manufacturing intelligence framework for data analytics**

On top of that, the Apriso platform also comes with:

- **A data model supporting a broad scope of MES functions (ex. Production, Warehouse, Quality, Maintenance, Time and Labor)**
- **Screens to manage Master Data**
- **Unified user authentication and authorization**
- **Accelerators to build actual business applications**
- **Standard out-of-the box solutions (ex. Complex Assembly, Issue Management)**
- **Intelligence Packs which deliver ready-to-use reporting and analytics (ex. Machine Intelligence Pack)**

# WHAT

## ARE THE LATEST INSIGHTS IN MES SYSTEMS, AND HOW ARE THEY INNOVATIVELY DEPLOYED?

To keep it short, let's focus on some key trends that WE have noticed as gaining interest among MES/MOM customers or users.

First, we observe that an increasing number of manufacturers are looking into a **single multisite deployment rather than local, plant-by-plant deployments**. It requires reliable infrastructure and organization; however, it typically lowers the rollout and maintenance costs. More and more manufacturers realize that it makes a lot more sense. To give you an example, it shortens the deployment speed for all incremental improvements during or after the solution is deployed for many locations.

Another trend we notice is **the growing push for "the MES in the cloud."** It is not only a matter of hosting legacy systems on some cloud servers but, more importantly, a shift from monolithic to microservices architecture.



The third trend is **the greater adoption of Agile vs. Waterfall methodology** when building and maintaining the solution. We are working with customers who make deployment to production every 2 or 4 weeks, and here we are talking about the same solution used in many sites. It requires not only a different project methodology but also the adoption of DevOps culture and specific frameworks. This approach might seem riskier to the manufacturer who does not know what to expect from the final result, but on the other hand, it makes the whole team always focused on critical business goals, which might change over time.

# WHAT'S THE OVERALL PERCENTAGE OF CUSTOMIZATION ON ANDEA CLIENT'S ENVIRONMENTS?

There is no straightforward answer to such a question since Apriso MES/MOM consists of several layers:

- **Database**

We maximize the usage of standard database model. Customizations occur only when needed and do not exceed 10%.

- **Business components**

We use existing business components where and when possible and estimate that there is less than 1% of custom Business Components in our solutions.

- **Monitoring and maintenance**

We use most of the screens without customization and +90% of such screens are standard.

- **Platform frameworks**

- Authentication – we leverage 100% of standard functionality.
- Integration - we avoid non-standard integration methods. However, mappings typically require customizations.
- Background processing – uses standard framework with customer specific jobs / logic.

- **Operator screens**

- Most of cases require custom screens for the Operators which are created using using Process Builder. We tailor such screens to specific customer needs so that they are self-explanatory and well aligned to the processes that they support.

# WHAT

## ARE THE STANDARD FUNCTIONALITIES THAT APRISO CUSTOMERS CAN REUSE?

Some examples of the Out-of-the-Box solutions available in Apriso include Weighing & Dispensing, Issue Management, Complex Assembly - to name a few.

There are also powerful components that you can use when customizing your solution, such as vQDT 3D (visual defect tracking), 3D work instructions, and others. That includes a library of Business Components, data models, frameworks, and interfaces.

Andea also provides accelerators, which we can deploy for the benefit of our customers. These include:

- Background job monitoring tools
- Prepackaged archiving solution
- Context help framework extension
- UI controls – new or replacement of standard components (controls with auto-completion features, visualization controls, charts, and diagrams)
- Non-conformance portal

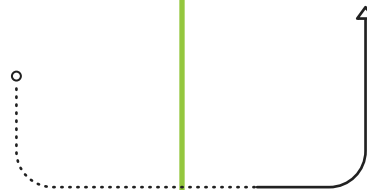
# HOW

## TO KEEP SUPPLIER WARRANTY FOR THE OOTB COMPONENTS THAT YOU NEED TO ENHANCE?

If there is a need to enhance OOTB functionalities, there is only one option:

Any modifications need to be limited in scope and isolated from the original solution. For example, you can develop add-in extensions or alternative flows through designated extension points. Based on our knowledge, Apriso would support any issues raised for the original solution component/s if you can show that the case refers to the element that you have not changed. We would not expect this to be an issue.

Alternatively, you use the OOTB solution as a starting point for a more advanced solution and take full ownership of it in the future. In that case, all the improvements or bug fixes will need to be done by you or your designated SI. Ultimately, this decision must be taken consciously by those who need to balance the value to maintain support while maximizing the software's benefits.





**Andea**

**GUIDE**

[www.andea.com](http://www.andea.com)