

COOX®

ORDINAL Software, SCADA/MES* software publisher offers its COOX software package, a simple solution, consolidated and developed to help its customers improve the performance and flexibility of their industrial assets.



The performance of industrial production is a key element in the success of your enterprise. It must manufacture products in full diversity by following time, quality and cost limitations. It must permanently adapt to an ever-changing environment: legal requirements, development of the range of products and production processes, variations in the customer and market demands.

The SCADA/MES tools are designed to help you achieve these objectives. They are the crucial link between your management tools and the equipment from your factories. They help set up good practices that lead to performance, flexibility and traceability of your production means.

Our COOX® (Collaborative Operation & eXecution) range gives the production management of your company the capacity to cope with its challenges.

*MES : Manufacturing Execution System

 **ORDINAL**
SOFTWARE



Take
control
of
change !

Improve your real time visibility

*Guarantee the consistency of collected and processed data
Track the progress of your production orders, the status of your equipment in real time
Control the consumption of raw material and workshop stocks
Identify the available production capacities in real time
Facilitate management decisions*

Analyze your performance

*Give easy access to information, via your Intranet, to whoever needs it: operators, quality, maintenance, management
Present the information in a readable format: by production order, by equipment, by period
Easily compare parameters for multiple periods, multiple production orders
User real time performance indicators, standard or personalized
Determine the time loss and bottlenecks
Identify the non-quality sources*

Obtain a quick return on investment

*Structure and standardize the management of your equipment, your production ranges, your automation programs to facilitate reuse
Reduce the time for setting up new processes and new equipment
Allow automation of all or part of your plant*

Respect the legislative and customer requirements

*Have a complete real time traceability of the process
Be capable of examining the traceability data in a readable format for several years
Immediately identify the source of product constituents
Trace the process malfunctions
Identify the actors of sensitive operations
Correlate all the information to numbers of manufactured batches*

Improve the reactivity and agility of your factories

*Increase the reactivity of your industrial tool with better coupling to ERP
Utilize your performance analysis and comprehensive capability
Stimulate the innovation capability of your company through the reactivity of your industrial tool: process, scope, capacity modification*



The COOX® platform

The COOX® solution is based on a single platform, integrating the functional services and the data model of your industrial data processing. This platform supports the ISA-95 standard, guarantor of an integration facility with the ERP and the ISA-88 standard that allows for standardization and reuse in equipment management, production lines and in automation programs. The COOX® platform is equipped with native mechanisms ensuring historization with integrity check and identification of the source for critical data (conformance type FDA 21CFR11). It is equipped with a single application configuration and personalization environment.



Your COOX® application benefits from upgradeability both at the functional level and at the level of its operating architecture:

- Multi-workshop and multi-site configurations
- Independent multilingual management (interface and data) for each connected client
- Access to functions through PDA and Smartphones
- Intelligent business components combined into reusable libraries
- Centralized deployment manager for the architecture
- Increased security during access to the system
- Simultaneous connection with several databases (MySQL, SQL, Server, Oracle, IBM DB2)
- Extended configuration and script functions
- Communication protocols for automatic control systems: (Schneider, Siemens, Rockwell, OPC, Applicom, TCP/Modbus, Modbus series, ...)
- Equipment communication protocols (balances, inkjet printers, badge readers, RFID...)

Take advantage of pre-packaged MES functions thanks to the MESbox®

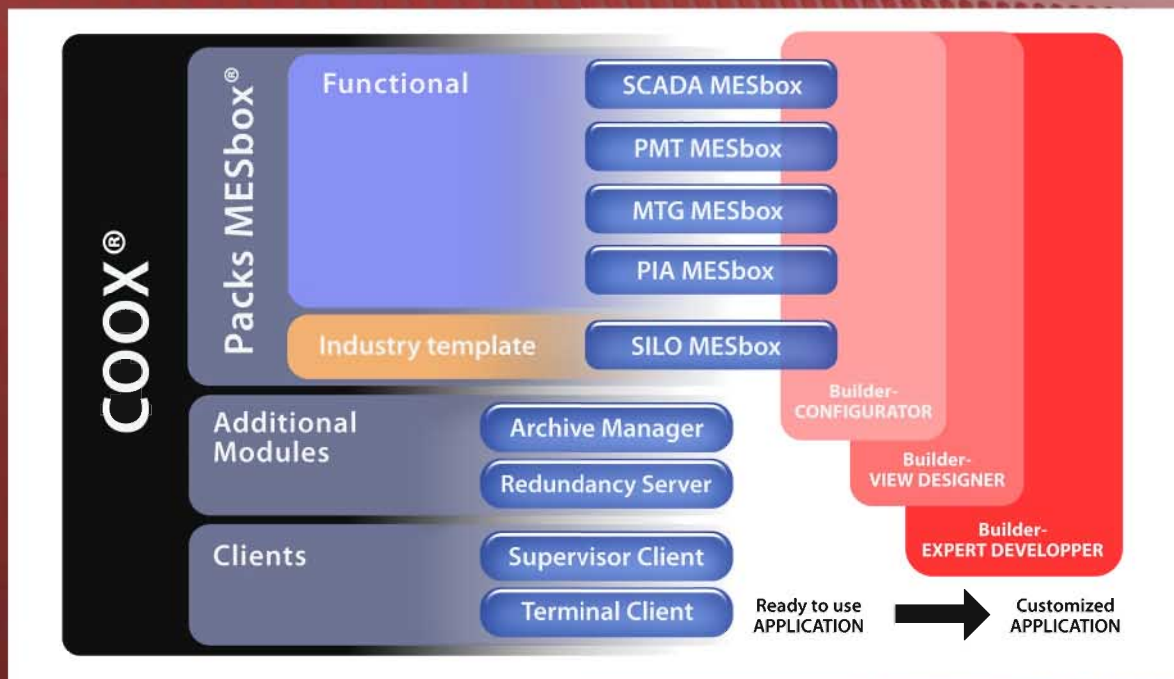
The potential functionalities of a MES (follow-up system and production execution) are vast. In the long run, almost everything proves to be a significant contribution to your production tool. But depending on your business or your specific requirements, your return on investment will be achieved more quickly on a special topic. For example, it will pertain to achieving an internal productivity target to consolidate your margins and to meet your customer's requirements, such as traceability. The MESbox packs meet this requirement by delivering each of the functionalities of a given topic in the form of an **autonomous package ready for use**. Depending on the COOX® platform, they can also be **combined and extended** with the help of the COOX® builder.



The COOX® Builder

Natural complement of the MESbox modules, a unique configurator – the COOX® Builder – based on a model of your plant, allows you to combine the functions of the MESbox packs according to your needs, to extend your application and to customize it to meet your specific requirements, to connect it to your ERP or to your CAPP system and this to your own beat. With the help of the combined capabilities of the COOX® platform, the Builder works only once on all the functional axes, thus offering notable gains in terms of productivity of development and of upgradeability.





With the COOX® platform that all the MESbox share, the MESbox packs can be combined with each other and extended within the same application. And your COOX® application can move into a number of controlled devices and into a number of system users so as to accompany the operations of your installations from the machine up to the factory and beyond without break.

The MESbox packs cover the functional topics of the MES and supervision:

- **MESbox SCADA: Supervisory Control And Data Acquisition**
Navigation through mimic diagrams, modeling and equipment explorer, recipe management, log of events and alarms, measurement recording, multi-curve tracer for real time or historized data, ...etc.
- **MESbox PMT: Process Management & Traceability**
Modeling, modification and management of planning sheets. Automatic or manual start of production orders. Conformance with ISA-88. Traceability and history of process/ batch file. Conformance with FDA 21CFR11.
- **MESbox MTG: Material Tracking & Genealogy**
Follow-up of material flows. Location of materials and batches. Management of workshop stocks and current stocks. Management of transfers and conversions within the process. Ascending and descending genealogy of batches.
- **MESbox PIA: Performance Indicators & Analysis**
TRS/OEE type standard indicators, availability, efficiency, rate of quality. Comparison of the production with relation to the objectives, MTBF, MTTR, useful rate, rate of returns and customized indicators.

The MESbox packs can also offer an extended answer to a business problem, such as the MESbox SILO pack, covering the supervision and operation of a grain carrier elevator.



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