

aPriori Cost Model Workbench (CMWB)

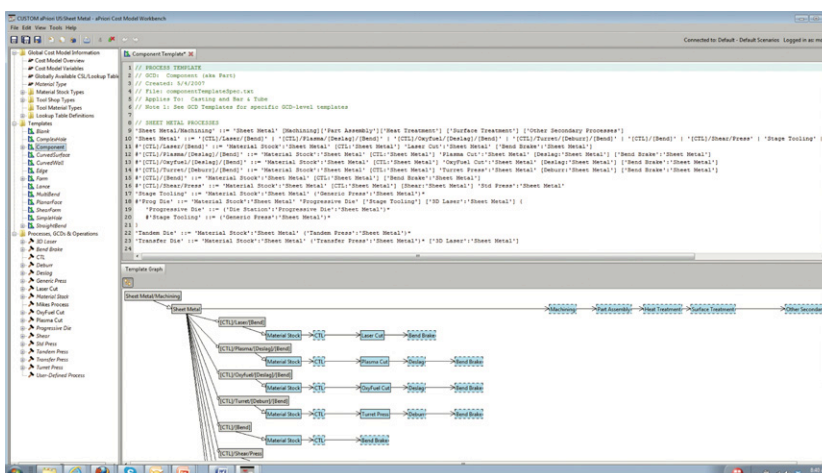
DATA SHEET

For aPriori customers who want more control over digital factories, aPriori's Cost Model Workbench (CMWB) lets you build and edit your own digital factories or maintain existing digital factories. The CMWB tool set, which enables you to build and edit the rules and logic of cost models, is used in conjunction with the aPriori digital factory manager, which enables you to manage specific machine and material data, to provide full control over a digital factory.

The Cost Model Workbench which is available to customers is the same tool set used extensively by aPriori's development and services teams to build and refine cost models and digital factories for customers.

With the CMWB, aPriori digital factory administrators are able to:

- Add user inputs, defaults and outputs for specific cost models/digital factories that support internal use cases
- Create “should-cost” digital factories with:
 - » Machines and processes that are not in the baseline or existing digital factories
 - » Routings and manufacturing rules that are not in the baseline or existing digital factories
- Create a digital factory to represent a specific factory (e.g., customer or supplier factories)
- Create a digital factory that replicates an existing internal costing model either for a factory or a should-cost methodology
- Create user-guided cost models for costing components without CAD models or with incomplete CAD models (e.g., carry-over parts, electrical components, wire harness, surface models)



* Figure 1: Editing the Routings for the Sheet Metal Process Group.

SUPPORTED ACTIONS

- Add new user input controls (e.g., the ability to override the calculated number of tacks for a robotic weld)
- Add new outputs (e.g., output the detailed breakdown of cycle time for a die cast part)
- Configure data structures — machines, materials, lookup tables and tool materials. Modify existing processes or operations (e.g., change the cost model for the bend brake, edit the tooling model for stamping to include a shipping estimate and display a more detailed breakdown of cost)
- Configure routings (available processing steps used to manufacture a component)
- Configure operation sequences for geometric cost drivers (GCDs) (e.g. techniques for holes, bends, etc.)
- Add operations for GCDs (e.g. new hole-making operations)
- Add processes within existing process groups (e.g., straightening to sheet metal, anodizing to surface treatment, adhesives to assembly)
- Add user-guided processes (e.g., models to cost thermoforming, wire harness or injection molding)

TRAINING

A five-day training course, specifically for the digital factory administrators maintaining cost model rules and logic, is comprised of two days of eLearning and three days of Professional Services consulting. The eLearning portion consists of fully-narrated lectures, software demonstrations, quizzes, and a hands-on lab and programmer reference guide. The three days of post-training consulting provides mentoring to students in understanding and modifying the cost models that are most important to your business.



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CUSTOMER SUPPORT

The Cost Model Workbench is a separately licensed module and support is provided within the subscription. aPriori's service levels for CMWB support are the same as that for our Digital Manufacturing Simulation Platform. Customer employees requesting support must have completed the aPriori CMWB training.

RECOMMENDED DIGITAL FACTORY ADMINISTRATOR SKILL SET

aPriori recommends that digital factory administrators using the CMWB have experience with or knowledge of basic programming skills (e.g., XML, Visual Basic etc.). Ideally, the person is comfortable reading and manipulating scripting code. Additional skills include:

- A solid understanding of manufacturing processes represented by cost models that they will modify. Knowledge of the primary cost drivers for manufacturing processes
- A computer science, applied math, manufacturing engineering or mechanical engineering background

If you are interested in learning more, please contact your aPriori account manager.