

aPriori Product Modules Overview

On-Premise Deployment

DATA SHEET

aPriori's modular software enables manufacturers to scale on-premise deployments to match their product development requirements. All aPriori deployments include an aPriori Foundation (comprised of modules from our core costing solution, aPriori Professional, and the aPriori Enterprise Platform), Manufacturing Cost Models, Regional Data Libraries, aPriori named end user licenses and additional modules to meet customer needs. aPriori recommends that deployments include Bulk Costing and Analysis to support automating the costing process. aPriori software does not include services, which are scoped separately and based on a customer's needs.

A core element of an aPriori on-premise deployment is an aPriori Foundation Package, which is offered in multiple levels to accommodate different scales of deployment. Foundations include aP Analytics to provide flexible, easy to use reporting and analysis, infrastructure to support enterprise needs, and administrative capabilities.

aPriori Foundation Packages	Tier 20 Up to 20 Users*	Tier 50 Up to 50 Users*	Tier 100 Up to 100 Users*	Tier 200 Up to 200 Users*	Tier 500 Up to 500 Users*	Tier 1,250 Up to 1,250 Users*
aPriori Cost Engine	✓	✓	✓	✓	✓	✓
aPriori Rollup and Drill Down	✓	✓	✓	✓	✓	✓
BOM Loader (data loader)	✓	✓	✓	✓	✓	✓
aPriori Macros	✓	✓	✓	✓	✓	✓
aP Analytics Starter Reports & Dashboards	✓	✓	✓	✓	✓	✓
aP Analytics Business Intelligence Platform & Ad hoc Analysis	✓	✓	✓	✓	✓	✓
aP Analytics Export Service	✓	✓	✓	✓	✓	✓
Reporting Only (Named End User Licenses for aP Analytics)	4	10	20	40	100	250
Access Control		✓	✓	✓	✓	✓
Scenario Sync and Digital Factory Sync*			up to 2 database servers	up to 3 database servers	up to 4 database servers	unlimited database servers
LDAP Integration & Synchronization			✓	✓	✓	✓
Cost Model Workbench (requires Cost Developer License to access)		✓	✓	✓	✓	✓
Digital Factory Manager and Digital Factory Creator	✓	✓	✓	✓	✓	✓
aPriori Professional & Cost Insight System Admin Licenses (for IT Configuration)**	1	1	2	3	5	10
aP Analytics Developer License***			1	3	3	5
Vouchers for aPriori LIVE End User Training (4 hr classes)			20	40	100	250

*aPriori Users (deployment can have additional Cost Insight Users)

FOUNDATION SOFTWARE MODULES

(*MODULE/PRODUCT IN APRIORI
ENTERPRISE PLATFORM)

aPriori Cost Engine – composed of the core technologies aPriori has developed over the past decade, including our ability to extract geometric cost drivers (GCDs) from 3D solid CAD models, run cost models and automatically evaluate manufacturing routings during costing.

aPriori Rollup and Drill Down – are infrastructure components. aPriori Rollup supports costing assemblies and bills of material at each level of a component's hierarchy. Drill down functionality provides visibility into the variables that are used in the calculation of cost elements within a scenario.

BOM Loader – is a flexible data loader for importing bills of materials and part data from ERP, PLM or other business systems into aPriori to use in product comparisons or product cost rollups. It enables loading a bill of materials, including its hierarchical structure and associated component data as well as commodity parts (e.g., nuts, bolts, washers) that are commonly used in assemblies.

aPriori Macros – are infrastructure capabilities to support configuration of user interfaces or functions within the aPriori product. These capabilities are available via aPriori's Customer Success engagements for delivering configurations in a services project for a specific customer need.

aP Analytics – is aPriori's integration, dashboard and reporting solution. It provides flexible reporting, analysis and trending of cost and manufacturing data. This module is critical to a successful product development strategy, providing team leads and managers with project status and metrics. aP Analytics includes:

- Cost Insight Starter Reports and Dashboards
- Cost Insight Business Intelligence Platform & Adhoc Analysis for flexible reporting and data analysis
- Cost Insight Export Service to define and schedule data export from aPriori database to aP Analytics database

Reporting Only – Managers and key stakeholders (product development, sourcing, manufacturing or program/project management) that will review and analyze cost data, but not create and edit project data or cost estimates. License can be used in an on-premise deployment to access aP Analytics.

Access Control – is a security model that allows companies to have finer control over user and admin access to components, rollups and digital factories.

***** aP Analytics Developer** – Licenses are for a development environment to build reports. End Users who are going to run reports, perform ad hoc analysis or create their own reports in the ad hoc environment do not need a aP Analytics Developer License.

****Scenario Sync and Digital Factory Sync** – enable synchronization of component and digital factories, respectively, across databases in multiple locations. Typically used in multi-national or global rollouts where some sites have high network latency.

LDAP Integration – LDAP Integration supports user definition and authentication. It is recommended for any customer using LDAP as a standard part of their IT infrastructure.

- aPriori users can be authenticated via aPriori's system capabilities or by using LDAP Authentication to connect to an LDAP Repository
- aPriori users can be defined in aPriori's Sys Admin module (manually or by spreadsheet import) or through one of the following LDAP Integration modes:
 - » LDAP Map semi-automated import of users and user attributes from an LDAP server into aPriori
 - » LDAP Sync* automated and scheduled import of users and user attributes from an LDAP server into aPriori

Cost Model Workbench – enables editing and configuring of digital factory logic and cost model logic. This module allows an organization to build and/or edit their own digital factories. Using aPriori's powerful and flexible platform customers can create cost models.

Digital Factory Creator and Digital Factory Manager

– allows customers to create digital factories by copying an existing digital factory. For example, new digital factories may have a subset of processes, different materials and machines or different labor, overhead and material rates. The module is also used to maintain and update digital factory data, including process, machine and material data that is used in the cost calculations. For example, customers use this module to add or remove a machine or material or to change machine labor rates and material rates.

****System Admin Licenses** – non-production licenses used for IT configuration, getting the system up and running, and managing licenses.

*****aPriori** does not sell aPriori Professional or Cost Insight System Admin Licenses separately, if a customer needs more System Admin licenses they must buy Cost Author licenses. If the System Admin will be costing components for production use or testing, then they will also need an appropriate CAD Connect license.

RECOMMENDED MODULES

Bulk Costing and Analysis – is used to automate the costing process. This module has three batch costing modes first, using the module’s user interface, second, by importing cost inputs from a spreadsheet, and third, using aPriori’s “headless” costing mode. Example applications include integrating aPriori with engineering automation for a Computer Design of Experiments to determine designs with optimal cost and performance or executing batch costing for hundreds of parts to generate an initial estimate that can be used in outlier analysis.

APRIORI MANUFACTURING COST MODELS

aPriori has 100+ manufacturing cost models that use industry-leading process logic for computing cycle time, material utilization and tooling requirements and apply a typical cost accounting methodology for calculating component costs. aPriori characterizes its cost models as basic, standard and advanced/specialized.

Types of cost models include:

Automated Cost Models – enables automated costing via GCD extraction from 3D solid CAD models.

Automated Table Driven Cost Models – enables automated costing by loading in a bill of materials of the component in aPriori (e.g., wire harness, PCBA)

User-Guided Cost Models – enables costing without CAD through manual input of geometric cost driver data.

2-Model Comparison – enables costing machined parts by comparing an “as designed” raw casting or forging model to the final, “as machined” part model.

Refer to the Manufacturing Process Modules datasheet or the following [web page](#) on aPriori’s corporate website for a complete list of out of the box cost models available.

APRIORI REGIONAL DATA LIBRARIES

aPriori Regional Data Libraries include benchmark data (e.g., materials capabilities & rates, machines capabilities & rates) and are available for 79 global regions. Updated quarterly, these data libraries are used with aPriori manufacturing cost models to provide starting point digital factories for a deployment. Typically deployments have digital factories that represent specific factories and/or regional supply bases. Regional data libraries can be used for both, though they are more applicable for regional supply-base digital factories. In the case of a specific digital factory a customer would use the factory’s manufacturing practices, machines, materials and rates to drive precise estimates for making components in that factory.

Regional supply-base digital factories are used to create:

- Early budgetary estimates to compare to targets and evaluate design alternatives for design engineering
- Benchmark costs to facilitate quoting checking and supplier negotiations for sourcing. The benchmark is not intended to represent the actual cost, but to provide a reasonable and reliable estimate in which to engage in discussion.

A company needs to evaluate starting point digital factories to ensure that their key processes are represented, the materials they use are included and the material costs are reasonable for their buying power. Companies may need to adjust/add manufacturing process logic, material compositions & rates and commercial factors (e.g., margin, SGA) to support generating complete cost estimates for their business.

APRIORI NAMED END USER LICENSES

To use aPriori, customers need named end-user licenses. We have three options to accommodate the different user types. Additionally, many users will need CAD Connector licenses and an aPriori plugin for CAD to effectively use aPriori.

Cost Developer (aPriori Professional and Cost Insight) – core power user such as cost engineers, design engineers, sourcing specialists leveraging aPriori on a regular and consistent basis to cost components and analyze data throughout the annual subscription term. Required to use aPriori's more advanced functionality including Bulk Costing & Analysis, BOM Loader, Digital Factory Manager and Cost Model Workbench.

Cost Data Author (aPriori Professional and Cost Insight) – any user from product development, sourcing, manufacturing or program/project management that will leverage aPriori to generate cost estimates on an as needed basis.

Reporting Only (aP Analytics) – managers and key stakeholders from product development, sourcing, manufacturing or program/project management that will review and analyze cost data, but not create and edit project data or cost estimates.

CAD Connect Licenses – to read CAD models and extract GCD data, a user needs the appropriate CAD connect license. aPriori has three types of CAD-connectors:

- Standard CAD Connector (for Pro/E, CATIA, Inventor, ACIS and STEP)
- Parasolid CAD Connector (for NX, SolidEdge, Solidworks, Parasolid and STEP)
- JT CAD Connector (for XT-BREP format)
- Advanced PMI Reader (for CATIA, Creo, NX, Solidworks)

aPriori Plugin for CAD – integrates aPriori with the CAD system and allows engineers to cost components that are open and in memory in the CAD system, without having to save them to a local directory. Available for Creo, Catia*, Solidworks and NX**.

* Licensed separately.

** Works with NX native or NX manager and is delivered as a service. Contact your aPriori account director if you are interested in a proposal for this solution.

APRIORI TRAINING

aPriori offers both publicly and privately scheduled role-based training through our aPriori LIVE (Live, Interactive Virtual Education). aPriori LIVE provides customers a remote, hands-on software training experience through the aPriori Playbox, a remotely-accessible virtual training machine. See <https://www.apriori.com/services/training/> for program description, schedule, and course catalog.

APRIORI HELP CENTER

All aPriori users are eligible for an account in the aPriori Helpcenter which is our central repository for product documentation, education videos, discussion forums and a searchable knowledgebase. The knowledgebase includes tips and tricks for common actions and answers to frequently asked questions. In the Helpcenter, users can also log an inquiry if they cannot find an answer that meets their needs and track inquiries that they or their colleagues have asked.



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