

# aPriori Product Modules Overview

## Cloud Solution

DATA SHEET

The aPriori Cloud Solution is a fully managed Software as a Service (SaaS) offering, built on our industry-leading digital manufacturing simulation software platform. It enables easy and secure access to aPriori applications and services through a browser from anywhere and at any time. The aPriori Cloud is SOC 2 Type 2 certified validating its industry standard level of security, availability, processing integrity, confidentiality and privacy of customer data.

aPriori's modular software enables manufacturers to configure and scale deployments to match their enterprise digital manufacturing needs.

All aPriori Cloud deployments consist of an aPriori Cloud Foundation (includes application clients, scaled platform services, databases, administrative components and cloud infrastructure), Manufacturing Cost Models, Regional Data Libraries, aPriori named end user licenses and additional modules to meet customer needs.

Different tiers are available to accommodate different scales of deployments.

| aPriori Cloud Foundation Packages  | Tier 20<br>Up to<br>20 Users* | Tier 50<br>Up to 50 Users* | Tier 100<br>Up to<br>100 Users* | Tier 200<br>Up to 200<br>Users* | Tier 500<br>Up to 500<br>Users* | Tier 1,250<br>Up to 1,250<br>Users* |
|--|-------------------------------|----------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------------------|
| Cloud Infrastructure, Platform and Application Services                        | ✓                             | ✓                          | ✓                               | ✓                               | ✓                               | ✓                                   |
| Databases (Operational, Reporting, Test)                                       | ✓                             | ✓                          | ✓                               | ✓                               | ✓                               | ✓                                   |
| AppStream Connector (Named End User Licenses to access aP Pro in the Cloud) ** | 20                            | 20                         | 30                              | 50                              | 125                             | 300                                 |
| aPriori Cost Engine  | ✓                             | ✓                          | ✓                               | ✓                               | ✓                               | ✓                                   |
| aPriori Rollup and Drill Down  | ✓                             | ✓                          | ✓                               | ✓                               | ✓                               | ✓                                   |
| BOM Loader (data loader for parts and BOMs)                                    | ✓                             | ✓                          | ✓                               | ✓                               | ✓                               | ✓                                   |
| aPriori Macros   | ✓                             | ✓                          | ✓                               | ✓                               | ✓                               | ✓                                   |
| aP Design  | ✓                             | ✓                          | ✓                               | ✓                               | ✓                               | ✓                                   |
| aP Analytics Starter Reports and Dashboards                                    | ✓                             | ✓                          | ✓                               | ✓                               | ✓                               | ✓                                   |
| aP Analytics Business Intelligence Platform & Ad hoc Analysis                  | ✓                             | ✓                          | ✓                               | ✓                               | ✓                               | ✓                                   |
| AP Analytics AP Analytics Export Service                                       | ✓                             | ✓                          | ✓                               | ✓                               | ✓                               | ✓                                   |
| Reporting Only (Named End Users Licenses for AP Analytics)                     | 4                             | 10                         | 20                              | 40                              | 100                             | 250                                 |
| Access Control   |                               | ✓                          | ✓                               | ✓                               | ✓                               | ✓                                   |
| Cost Model Workbench (requires Cost Developer License to access)               |                               | ✓                          | ✓                               | ✓                               | ✓                               | ✓                                   |
| Digital Factory Creator  | ✓                             | ✓                          | ✓                               | ✓                               | ✓                               | ✓                                   |
| aP Pro & Cost Insight System Admin Licenses (for IT Configuration)***          | 1                             | 1                          | 2                               | 3                               | 5                               | 10                                  |
| AP Analytics Developer License****   |                               |                            | 1                               | 2                               | 3                               | 5                                   |
| Vouchers for aPriori LIVE End User Classes (4-hr. classes)                     |                               |                            | 20                              | 40                              | 100                             | 250                                 |

\*aPriori Users (deployment can have additional AP Analytics Users)

\*\*Each Tier of the aPriori Cloud Foundation comes with a designated number of AppStream Connectors which provide access to aPriori Professional in the cloud. If a customer needs more users to access aPriori Professional than the designated number of AppStream Connectors, additional ones can be licensed separately.

\*\*\*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. aPriori Professional & Cost Insight System Admin licenses are for deploying the system and managing users. If the System Admin will be costing components for production use or testing, then they will need an appropriate CAD Connect.

\*\*\*\*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.

# FOUNDATION SOFTWARE MODULES

**Cloud Platform Infrastructure & Services** – enable all components of the aPriori digital manufacturing simulation platform to run in a secure environment in the cloud with compute resources designed to scale with the customer's needs and users. aPriori manages all the required infrastructure, resulting in a lower total cost of ownership for the customer and no requirements for the customer IT organization to host any servers or manage deployments.

**aPriori Databases** – provide the central shared data store for all components, scenarios and rollups and reporting data created and accessed by users, as well as managed digital factory, process group and regional data. The databases are fully managed and hosted as part of the cloud deployment including daily backups and separate sandbox and digital environments.

**AppStream Connector** – connects to a fully managed application streaming service from AWS which allows named licensed end users to access and use aPriori Professional through a web browser.

**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 to aPriori Professional Services for delivering configurations in a services project for a specific customer need.

**aP Generate** – is an automated and collaborative cloud-based software solution that integrates with your organization's Product Lifecycle Management (PLM) system. aP Generate features an entirely new user interaction paradigm that proactively notifies a designer, cost engineer or buyer of components with Design for Manufacturability (DFM) risk and a preliminary component cost.

**aP Design** – aP Design is a role-based web application available as a SaaS (Software as a Service) solution from aPriori. Using only a web browser, a design engineer can access an application which connects to a scalable and cloud-based set of costing, visualization, reporting, and administrative services.

**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 DFM 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 Cost Insight Report 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.

**Cost Model Workbench\*\*** – enables editing and configuring of digital factories 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.

## RECOMMENDED MODULES

**Bulk Costing and Analysis** – is used to automate the costing process. An example application includes 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 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 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 (aP Pro, aP Design, and aP Analytics)**

– core power users such as cost engineers, design engineers, and sourcing specialists leverage 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 Factories, and Cost Model Workbench.

### **Cost Data Author (aP Pro, aP Design, and aP Analytics)**

– 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 PLUGINS 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 and NX.

## 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 [www.apriori.com/services/education-services](http://www.apriori.com/services/education-services) for program description, schedule, and course catalog.

## APRIORI HELP CENTER

All aPriori users are eligible for an account in the aPriori Help Center 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 Help Center, 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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