

# Ampla



Ampla is a powerful and dynamic suite of Manufacturing Execution Systems (MES) solutions which allow you to improve the production efficiency, performance and profitability of your business.

This is achieved by processing, analyzing and presenting important real-time intelligence from across the business. This allows corporate, IT, plant and production managers to make faster and better decisions based on accurate and current information.

Citect's non-invasive, low-risk modular approach leverages open technologies and complements existing automation and IT systems, delivering fast and high return on investment (ROI), with a low total cost of ownership (TCO).

The result of close collaboration with customers across a wide range of industries worldwide, Ampla is a unique suite of

customizable analysis modules which target specific areas for business improvement.

These modules include: Ampla Production; Ampla Quality; Ampla Tracking; Ampla Downtime; Ampla Cost; Ampla Maintenance; Ampla Knowledge; Ampla Planner; and Ampla Metrics.

Ampla connects to multiple plant and business systems, collects the relevant data and presents it as easy-to-understand, real-time intelligence for productivity analysis, data mining, querying and reporting.

Managers can dynamically select the information they need to take prioritized action and make continuous production efficiency improvements. For example, decision-makers can 'drill-down' through the production hierarchy to identify bottlenecks to production, inhibitors to quality and root causes of delays.

## TESTIMONIALS

"Ampla has proven its worth in our business as a flexible technology that allows visibility of operations throughout our business domain, vastly reducing the overhead required in providing information to business managers. This has allowed us to improve reliability of data interaction with business systems, availability of data to process owners and aids in the management of our raw materials."

Stuart Henderson, Process Systems Team Leader, Tomago Aluminium

## BENEFITS AT A GLANCE

**Optimize production process efficiencies** Ampla allows you to 'drill down' into the detail of your plant's Key Performance Indicators so you can take considered and prioritized action.

**Maximise Return On Assets (ROA)** A clearer picture on your plant's operations allow you to eliminate equipment downtime, unscheduled maintenance and process bottlenecks whilst improving overall equipment effectiveness, speeding up time-to-market and streamlining schedules.

**Increase Return On Investment (ROI)** Each tightly-integrated analysis module provides fast, incremental and measurable information so you can make continuous improvements when you need them. Since modules can be deployed incrementally across a single common platform, associated costs are shared across all modules, decreasing capital expenditure and increasing Return on Investment (ROI). Significant ROI can be expected in 6 to 12 months.

**Low Total Cost of Ownership (TCO)** Each module resides on the same tree hierarchy and runs on a single real-time platform, saving you the time and costs of rework in the configuration and deployment of multiple modules. Based on the Microsoft Windows format, the system requires minimum training to use effectively and enables customers to continuously extend and refine their system.



Production



Quality



Tracking



Downtime



Cost



Maintenance



Knowledge



Planner



Metrics

# Ampla

# Ampla delivers an integrated suite of powerful, real-time analysis modules

## HARDWARE REQUIREMENTS

### Minimum

Pentium 2 GHz CPU

1 GB RAM

### Recommended

Dual Pentium 3.4 GHz

2 GB RAM

18 GB RAID HDD or SAN

## SOFTWARE REQUIREMENTS

### System Requirements

Windows 2000 SPK2

MS SQL Server 2000 (optional) or Oracle

### System Components

Microsoft .NET Framework V1.1

Ampla Server

CitectStudio

### Control Systems Supported

CitectHMI and CitectSCADA V5.42 or later

### Databases Supported

MS SQL Server 2000

Oracle 8i, Oracle 9i

Delivered through Citect Professional Services and accredited Systems Integrators



## TESTIMONIALS

“Ampla modules deliver the right information to the right people at the right time. Management now has a veritable picture of performance to focus on analyzing data for the right business decisions.”

Tim Spandiel, Manager, Impala Base Metals Refinery

## AMPLA FEATURES

- Reliable high-speed data acquisition from multiple plant and business systems.
- Single configuration interface for all modules reduces learning and rework costs and lowers TCO.
- Single real-time platform allows modules to interact and communicate, to better aggregate information for cross-functional reporting and KPI calculations.
- Modular deployment and single real-time platform allows staggered deployment, bringing incremental improvements, lowering capital expenditure and increasing ROI.
- Non-invasive approach leverages existing IT infrastructure and business standards and minimizes changes to the PLC or HMI / SCADA system, reducing deployment costs and risk.
- Business alert agent brings attention to information in a timely manner, increasing responsiveness.

## POWERFUL DATA ANALYSIS

- Automatic aggregation up and down the tree hierarchy.
- Extensive data filtering capabilities.
- Open data repository.
- Cross-modular pivot / groups.
- Data confirmation and audit trails.
- Dynamic data grouping.
- Dynamic graphing and viewing tools.
- Customizable reports.

## CLIENT TOOLS

- Favorites for fast access to common reports, views and filters.
- Pareto, Line, Sigma, 3D, Pie Chart, X-Bar, normalized distribution, zoom and pan charts.
- Data lists.
- Copy and paste data and images from analysis views.
- Crystal reports interface.
- Web browser delivery.

## DATA MIGRATION

- Upload to relational databases.
- Client export facilities.
- Copy to clipboard facilities.

## CUSTOMIZATION

- Powerful expressions for fast, simple customization.
- Crystal reports for customizable and user definable reporting facilities (requires Crystal Reports software).
- Powerful C# code items for complete flexibility.

## SECURITY

- MS security model.
- Client re-validation model on every data query.
- Password encryption for internet security.
- Multiple areas and levels for each user.
- Configuration security.

Contact:

Contact Citect to learn more about how Ampla can benefit your business at [www.citect.com/ampla](http://www.citect.com/ampla)

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Real-time Intelligence