



ENTRUST



Adaptive Issuance™ Production Analytics Solution

Add digital machine intelligence to your card issuance operations

Secure, optimized production data analytics is an imperative tool when solving the operational efficiency challenges prevalent in the card issuance and personalization market. With over 50 years of experience, Entrust knows these industry challenges and has the expertise to support your operation and your data needs. The Entrust Production Analytics Solution (PAS) is a software platform pairing robust and actionable machine intelligence with technical consultation experts who will link site-specific analytics and trends to fully optimized solutions. Production efficiencies resulting from the Entrust PAS will decrease operating expenses (OPEX), optimize card throughput, and position operations for incremental revenue, customer satisfaction, and overall market share.

Consistent productivity

Put the tools in place to optimize productivity, leveraging continuous improvement. Track data in real time or defined interval periods. Review progress hourly, daily, weekly, etc. to solve productivity challenges and track progress vs operational goals. Increase visibility to identify bottlenecks quicker than tracking systems manually and ensure production consistently stays at maximum capacity. Engage Entrust technical experts to review data over time for trend analysis, and future improvements.

Return on investment

Gain insights on issues that cause card rejects or machine downtime and convert those findings into reducing waste and increasing capacity. Actionable intelligence offers insights to issues as they arise and allows you to solve them before system efficiency dips. Real-time analysis means customers have real-time opportunity to leverage continuous improvement and greater ROI.

Trusted partner

Entrust is your Production Analytics Solution partner. Maximize operational efficiency by leveraging 1:1 consultation with our technical experts. The same engineers that developed the PAS software also developed the issuance systems they support. Entrust will work alongside your operations leaders every step of the way to identify, analyze, recommend, and advise solutions.

OPERATIONAL EFFICIENCY AT YOUR FINGERTIPS

The Production Analytics Solution provides software and professional consulting support from Entrust to gain real-time analytics insight into card personalization systems. This machine intelligence is utilized to optimize production operations and leverage bureaus as card personalization and issuance subject matter experts.

The Production Analytics Solution subscription includes professional consulting from Entrust experts, providing site-specific feedback and assistance about your operations to:

- Identify bottlenecks
- Increase operational efficiency
- Reduce production costs
- Increase capacity

Learn more about our Production Analytics Solution at [entrust.com](https://www.entrust.com)



Production Analytics Solution

HOW IT WORKS - 3 SIMPLE STEPS



Production information is collected directly from the systems on your production floor and converted into a dynamic dashboard of digital data for live visual queues or in-depth analysis.

Dashboards are available with point-and-click drill-down menus to refine the accumulated data over any time interval. Machine information can be displayed in multiple ways, giving users the freedom to organize data in a way that makes sense for their operations. This customization also allows flexibility for viewing time periods at any time interval.

Alerts may be configured to notify you, via email, when certain problem conditions are triggered.



KEY FEATURES

- Real-time data collection
- Long-term trend analysis
- Variety of built-in and customizable data analysis panels
- Integrated consulting time with Entrust technical experts
- Subscription that provides the latest software, including new functionalities and security updates
- Alerts/triggers may be set to notify you proactively when certain issues occur
- APIs for third-party system integration—monitor a variety of issuance machines from different OEMs

SOLUTION BENEFITS

- Identify/resolve production issues faster
- Enhanced operational transparency
- Intelligence to align people, equipment, and processes
- Clear insights for operations management decisions
- Improved production schedules
- Balanced workload
- Peak efficiency operations
- Reduced operational costs
- Optimized preventive maintenance

APPLICATION PROGRAMMING INTERFACE (API)

Perso Machine API

Enables organizations with third-party card and passport personalization machines (non-Entrust machines) to aggregate and push data into the Production Analytics Solution platform. This data can be collected and analyzed on dashboards to include all machines (both Entrust and third-party).

Data Stream API

Allows customers to receive real-time machine data, including live machine status, details of jobs, and products produced. This API can be used to integrate machine data into third-party analytics platforms.

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Production Analytics Solution

DASHBOARDS OVERVIEW

Quickly see the status of your production environment at a glance:

TRACKING IDLE TIME

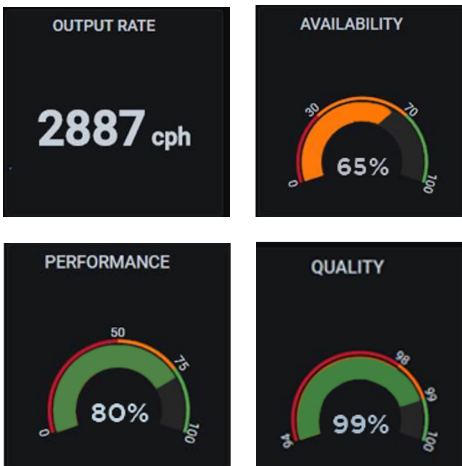
- Contributing factors
- Productivity visibility



Idle time panel

PRODUCTION MONITORING

- Production projection
- Output rate
- Availability
- Performance
- Quality



Production monitoring panels

CUSTOMIZATION AVAILABLE

Work with Entrust Professional Services to customize dashboards for your operation. Views can be customized with an intuitive design that allows for flexibility.

Learn more about our Production Analytics Solution at entrust.com

RISKS TO PRODUCTIVITY

- Rejections by machine/module
- Rejections by code
- Rejection code heat map
- System events tracking



Productivity panel

CHIP PERSONALIZATION STATS

- Chip quality
- Perso times by operation
- Rejections by code
- Rejections by machine
- Hourly output rate



CARD DELIVERY OVERVIEW

- Total forms/envelopes
- Average cards per form
- Fold types
- Form sizes
- Card orientation
- Envelope rejects by operator



Production Analytics Solution

Process Control and Real-Time Data	Basic Edition	Pro Edition
Production monitoring - Output rate, availability, performance, quality	•	•
Risks to productivity - Rejections by module and code	•	•
Card delivery overview - Total forms, avg cards per form, fold and form types, card orientation	•	•
Production projection - Provides predicted total card output by end of day	•	•
Smart card data - Chip quality, rejects, perso time, detailed errors		•
Idle time - Contributing factors, productivity visibility		•

Consulting Entitlements Per Year Consulting scope to be determined by edition owned by customer	Basic Edition	Pro Edition
Engagements	1	2*
EBYS consulting hours	10	20
Software update**	1	1
Industry benchmarking	•	•
Module-level data	•	•
Availability, performance ***, and quality details	•	•
Recommendation, explanation, and benefit impact of resolution	•	•
Smart card performance		•
API add-on for third-party integration	Optional	Optional

*Second engagement during year to focus on one of the key areas, chosen by customer: performance, availability, or quality.

**Travel and expenses to be charged separately.

*** Performance analysis will identify presence of bottlenecks at the module level using module level timing data.

ENVIRONMENTS SUPPORTED

Application Server

- Windows Server 2019
- RAM:** 12 GB
- CPU:** 8
- Hard Drive Space:** 200 GB

Browser

- Microsoft Edge
- Google Chrome
- Firefox

Database Server

- CentOS/RHEL 7.7, 7.8, 8.0, 8.1, and 8.2
- RAM:** 8 GB
- CPU:** 4
- Hard Drive Space:** 500 GB

PRODUCTION ANALYTICS SOLUTION DESIGNED FOR

- Datacard® MX Card Issuance Systems
- Datacard® MXD Card Delivery Systems
- Datacard® DX Card Delivery Systems
- Datacard® MXI Card Delivery Systems

Entrust systems need to be running controller software version 10.8 or higher.

To enable smart card performance data, Chip Interface 6.7.1 or higher is required.



Learn more at
entrust.com



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