



SaaS

Open
Developer
Studio

10X
Scalability

Enhanced ML
and AI

Intuitive
Dashboard

Multi-lingual
Support

ignio™ Product Overview

(Cheetah release)

Jan 2019



ignio

AI.Workload Management (Cheetah release)

Batch jobs and automated workloads are the backbone of many enterprise businesses. The sheer size and complexity of workloads required for day-to-day operations — often numbering in the hundreds of thousands — catches many operations teams by surprise. For many businesses, it is a necessary component to their daily success.

Businesses face two key challenges in managing batch systems:



Scale, diversity, and complexity:

Thousands of batch jobs, defined by complex precedence relationships across different business functions, and batch schedulers.



Changing environment:

Different batch functions are performed on different days. As a result, the batch graph keeps changing every day.

These challenges collectively lead to the following chain of implications:

Lack of end-to-end visibility

Difficult to predict outages

Difficult to assess the impact of change

Surprises and firefighting:
Reactive operations

People dependence

Timely and predictive processing of batch jobs is vital to ensure stable business operations and high-quality customer experience. ignio™ AI.Workload Management brings a paradigm shift in today's batch operations from 'reactive to proactive' and 'manual to automated'. It combines Machine Learning, AI, and automation to deliver predictable, agile, and autonomous batch operations.

Why ignio™ AI.Workload Management?

ignio™ AI.Workload Management learns your business and keeps your processes running smoothly, thereby saving time. It allows you to focus on what is important — growing your business, not simply maintaining it. As part of the batch Blueprint, ignio™ AI.Workload Management intelligently models various batch components and their relationships, and attributes. This results in effective functioning of batch jobs with improved interdependency within the system.

Features:

Blueprint

- Blueprint captures metadata and run history of Batch systems and provides a holistic view of the entire business functions, batch jobs, and infrastructure.
- It analyzes complex precedence interdependencies across schedulers and business functions.
- It then creates a comprehensive model of various batch components and their relationships and attributes.
- This helps connect various business components while defining job-to-job precedence relationships.

Normal behavior profiling

Normal behavior profiling consists of:

- **Metric profiling** that analyzes historical data of various metrics associated with a job. These insights are used to understand the job behavior and impact of environmental changes.
- **Event profiling** that analyzes historical data of events to derive temporal patterns of occurrences of alerts. This data is used to understand frequent problem areas in a job.
- **Dependency profiling** that analyzes dependencies of a job on other jobs and derives influenced and influencing nodes. This enables a clear understanding of the system, thereby allowing proactive management.

Threshold Corrections

- ignio™ AI.Workload Management analyzes trends and patterns of a job metric to capture the dynamic behavior of jobs and business processes, and recommends dynamic thresholds.
- It captures different temporal patterns and compares the number of alerts generated by the current threshold and recommends the optimum threshold.
- ignio™ uses this intelligence to suppress false alerts.

Risk Management

- ignio™ analyzes each system component on the following two aspects — how often a component fails and how big is the impact of its failure.
- It classifies these insights into high/medium/low levels of risk to quickly point to areas requiring immediate attention.
- These insights are derived by extracting information from multiple data sources such as job dependencies from batch schedulers, alert logs, and business-critical job definitions.

Real-time Batch Predictions

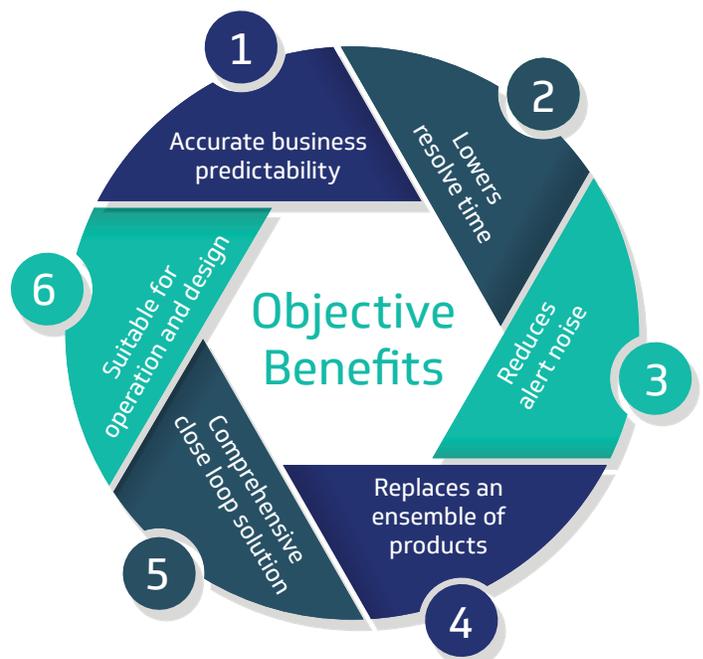
- Real-time batch predictions provide the capability to predict a future batch failures and adapt to changes in real time.
- It proactively reports any potential SLA violation in the future.
- This enables users to take timely corrective actions to prevent these problems.

Intelligent Alerts Management

- This feature suppresses, aggregates, predicts, and prioritizes alerts.
- The alert generation tools often generate a large volume of noisy alerts.
- With intelligent alerts management, ignio™ generates only the right alerts at the right time.
- It can suppress duplicate alerts, suppress MRA alerts, correlate alerts, and prioritize alerts based on their cruciality.

Auto-triage and Self-heal

- ignio™ AI.Workload Management performs Auto-triage to discover the likely causes of batch jobs failures and applies corrective measures.
- It closes the loop between the IT infrastructure by leveraging its domain-specific knowledge of the system.
- Its out-of-the-box capabilities to take corrective actions based on recommendations as part of the Auto-triage helps your business save on cost and time by reduced investigation time and effort.



Testimonials

"The capabilities demonstrated by ignio™ and its quick turnaround in identifying a problem is unprecedented. We were impressed by its nimbleness in seamlessly integrating with existing enterprise batch as well as workload automation systems."

– Dan Twing, President and COO at Enterprise Management Associates and lead WLA analyst

"Digitate has developed a solution that can in real time provide actionable information based on the wealth of data organizations already have within their systems...delivering proactive business intelligence on mission-critical workloads."

– Ovum On the Radar

"ignio™ binds together disparate yet interconnected business applications and their underlying infrastructures to perform actions autonomously and drive smart decision making."

– Dave Schubmehl, Research Director for IDC's Cognitive / Artificial Intelligent Systems and Content Analytics



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ignio™ is an open, extensible platform that is specifically designed to optimize your time while helping you make smart business decisions. The system is dynamic and it assimilates additional capabilities as your IT ecosystem continues to grow.

For more information, reach us at contact@digitate.com for a demo or visit www.digitate.com.