OPUS

OPUS
PRODUCT SHEET

OPUS is a no-code AI platform that allows users to discover actionable insights by combining time-series data and artificial intelligence for highly accurate predictive maintenance, process optimization and deviation management.

OPUS Standard Product Features

- Unlimited model generation and end-users
- Designed for high volume time-series data
- AI Model Wizard for no-code model creation in 5 easy steps
- Seamless model results visualization with dynamic dashboards
- Automatic model deployment into live environment with automatic model refreshing
- Model confidence and accuracy calculations
- Calculation nodes can be created and used in models, as target or KPI.
- Calculation nodes can be multi-dimensional, produced in real time and performed over time.
- Uni-variant sensitivity for full simulation of plant outcomes
- Full customization of charts for advanced users using JSON
- Produce AI Models without relying on model libraries or OEMs using data from the whole eco-system
- Set-up automatic alerts and notifications based on model predictions and forecasts
- Model management. Privilege controls for restricted editing of models to model owner
- Rapid autonomous deployment
- Client retained data ownership
- Single sign-on authentication
- On-line chat and ticket management for remote operations teams

OPUS Product Specifications

- Model creation and training pipeline managed by latest micro-services technologies on distributed architecture.
- Real time and historical data sources (imported into DataHub4.0)
  - Data Historians and SCADA systems, including but not limited to OSIsoft, Schneider Electric, GE Automation, Rockwell Automation, Siemens, Aspentech, AWS, Google, Azure
  - Real time and time-series data direct from DCS and PLC controllers
  - Real time and time-series data direct from IoT sensors
  - Automated import from Lab Data
  - Automated import from 3rd party such, such as weather data
- SaaS subscription
- Responsive HTML5 interface

Dashboard showing Urgent Status for a system, with contributing factors for the predicted deviation.

Specifications

- Data security compliant to SOC 2 and ISO27001
- VROC Private Data Centre scaled to customer required ingestion and run-time speeds
- VROC Private Data Centre system availability 99.99 (less than 52.6 minutes downtime per system per year)
- Quality assurance compliance with ISO9001:2015, ISO14001:2015, ISO45001:2018
- Models are automatically refreshed on live data being ingested into DataHUB4.0.

Flexible Hosting Options

- VROC Private Data Centre
  - Fast and secure
  - Client data ownership and control retained
  - No upfront costs
  - Instant deployment
- Client On-Premise Data Centre
  - Allocate space in your on-premise server for VROC Operating System to be configured and accessed
  - VROC can provide server management if required
- Client Public Cloud
  - AWS / Azure / Google Cloud
  - Allocate space in your public cloud infrastructure for VROC Operating System to be configured and accessed
  - VROC can provide public cloud management if required
- VROC Cube
  - Preconfigured server rack with VROC Operating system
  - Plug and Play set-up for On-Premise hosting
  - Scalable solution

OPUS Model Wizard

Model problem statements without programming or coding using VROC's model wizard:

- Predict when the next failure or undesirable event will occur
- KPI Optimization - such as emissions reduction, or process optimization
- Predict what a value will be in the future
- Identify the root cause of an event
- Identify when equipment or process is degrading or not operating correctly
- Predict when equipment maintenance is required

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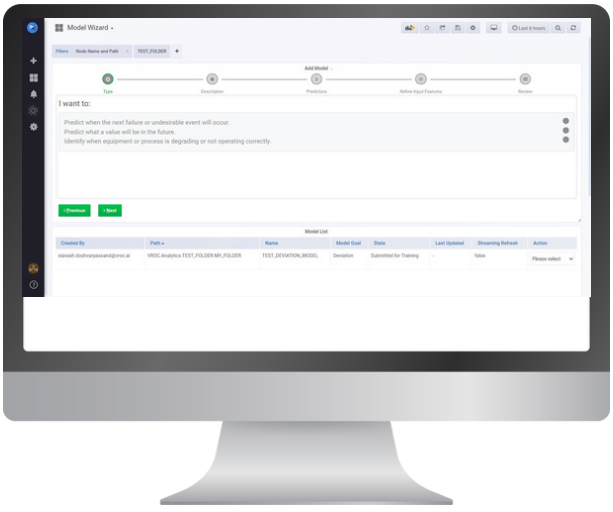
Model results, displaying model confidence and contributing factors

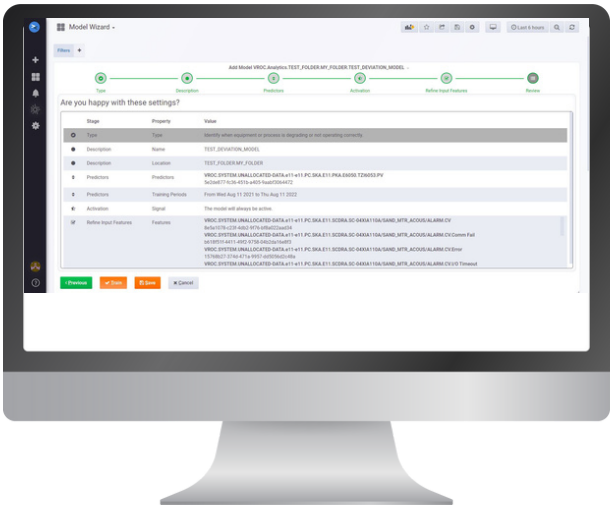
Time to failure model results, showing time for failure and trends

Visualization examples that can be produced with OPUS

OPUS DNA Chart



Model Wizard - first step



Model Wizard - final review step

For a quote to deploy OPUS within your facility or enterprise, contact the team at VROC.AI

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