

# WHAT'S NEW IN CYGNET ENTERPRISE OPERATIONS PLATFORM 7.3

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C Y G N E T

**Release 7.3 is a major upgrade of the CygNet Enterprise Operations Platform (EOP), the Oil & Gas industry's most powerful SCADA solution for the seamless collection and sharing of operational data across the enterprise.**

Unlike other SCADA systems, CygNet EOP 7.3 unlocks the value of real-time, configuration, and historical information by making it accessible to more data consumers. The platform delivers a unified information ecosystem by efficiently communicating with industry-leading field devices, other industry software packages, and third-party systems already in place. New enterprise integration capabilities extend the platform's flexible support for business processes. These improvements eliminate IT time and effort, enabling customers to rapidly realize the benefits of asset optimization, performance analytics, and KPI tracking delivered from Operations to the business.

## Key features in the EOP 7.3 release:

**Enterprise Integration Suite (EIS)**

**Equipment Interface Engines (EIE)**

**Energy Load Forecasting (ELF)**

**Improved Performance and Reliability**

Following are descriptions of the key features introduced in the Enterprise Operating Platform 7.3 release:

### Enterprise Integration Suite (EIS)

CygNet EIS reduces the amount of Operations or IT resources required to develop and maintain secure integration with external systems. It readily connects a company's existing business applications to real-time, configuration, and historical data by leveraging open, standards-based interfaces. These include XML, Java, and web services as well as connectivity via APIs and common open integration methods. Release 7.3 now extends the native integration capabilities of EIS with "business objects", which provide IT and operations with a data abstraction model to express data attributes using the customer's naming conventions of choice (e.g. "meters", "wells", "compressors"). Multiple data object mappings are supported for enterprise SCADA installations with diverse implementations. CygNet EIS allows more data consumers – including business users – to leverage operational performance information seamlessly, in context, within their transactional systems and business applications of choice.

### Equipment Interface Engines (EIE)

CygNet's EIEs provide pre-built connectivity to the latest versions of thousands of industry-leading field devices out of the box, with no "heavy lifting" required. CygNet EOP 7.3's new native EIEs collect vast amounts of data every second through better, more flexible utilization of IP-based communications infrastructure. Release 7.3 also supports enhanced EIEs for the latest products from Weatherford, ABB Totalflow, Thermo Fisher Scientific, and Emerson RAS.

## Energy Load Forecasting (ELF)

ELF is a neural network-based energy load forecasting application that helps controllers prepare gas pipelines in advance for expected demand by automatically adjusting the line pack and stored gas accordingly. ELF is a predictive system that learns as it forecasts, becoming more accurate over time. It can utilize historical weather and flow data, weather forecasts, economic factors, or user-defined input variables using a standard XML schema. By automating a previously manual process, ELF keeps pipelines operating most effectively to maximize profitability, meet contractual or compliance obligations, and ensure customers are well served.

## Improved Performance and Reliability

CygNet Software is committed to incorporating core Microsoft technologies as they become available. Release 7.3 now supports clustering on Windows Server 2008 R2. Database services also now incorporate the Microsoft Extensible Storage Engine (ESE), improving interface startup time and the speed of service replication. This also provides recovery in event of operation system glitches and more easily supports incremental backups. Additionally, continued enhancement of core management functions ensures even higher system availability.

CygNet Enterprise Operations Platform 7.3 delivers a lower total cost of ownership than alternative SCADA solutions which rely on multiple proprietary, platform-specific, or process-centric interfaces. These custom integrations typically require continual support, and product updates often break data interfaces, further draining valuable resources. CygNet EOP 7.3 allows customers to continue to leverage their past technology investments, further reducing switching costs.

