

G2 OPTTEGRITY

G2 OPTTEGRITY FOR PREDICTIVE ABNORMAL CONDITION MANAGEMENT

Something goes wrong. Equipment fails, a process drifts, human error occurs. Such abnormal conditions can have many serious consequences – unplanned downtime, broken schedules, safety hazards, inefficient operation, poor quality, and more.

Built on Gensym's leading G2 rule-engine platform, G2 Optegrity™ cuts the costly business impacts of abnormal conditions by predicting, diagnosing, and resolving critical equipment and process problems such as those found in manufacturing and utility plants, telecommunication systems, aerospace systems, buildings, transportation systems, and much more.

THE G2 OPTTEGRITY DIFFERENCE

G2 Optegrity applications predict and resolve problems in real time before the problems lead to costly disruptions or shut down operations. With G2 Optegrity, enterprises sustain performance, increase asset availability, prevent shutdowns, and improve operator productivity.

G2 Optegrity applications work in real time using information from existing automation systems, data historians, and databases to:

- Predict problems before automation system alarms are triggered – operators receive alerts minutes or even hours in advance of alarms
- Analyze, filter and correlate alarms to speed responses
- Rapidly isolate the root cause of problems to accelerate resolution
- Guide operators through recovery to enhance safety levels while effectively responding to problems
- Predict the impact of disruptions so operators can prioritize responses

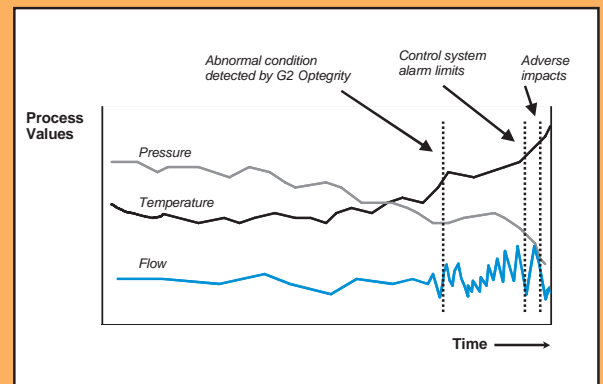
With G2 as its foundation, G2 Optegrity is ready for online deployment in the most demanding operations. G2 has proven itself in rule-engine deployments involving millions of hours of execution for both open- and closed-loop control in major industrial facilities throughout the world. G2 is ready for real-time connectivity to operational systems via adapters to automation systems, historians, enterprise systems, and support for IT standards, including those for Windows, Java, and messaging.



OPERATIONAL BENEFITS

G2 Optegrity applications turn data into actionable information to:

- Increase availability of production assets
- Reduce off-specification production
- Minimize or eliminate unplanned shutdowns
- Improve operator productivity
- Lower production costs
- Raise operational safety levels
- Increase process utilization
- Enable non-stop operation



G2 Optegrity alerts and guides operators before abnormal conditions reach alarm limits and escalate into costly impacts.

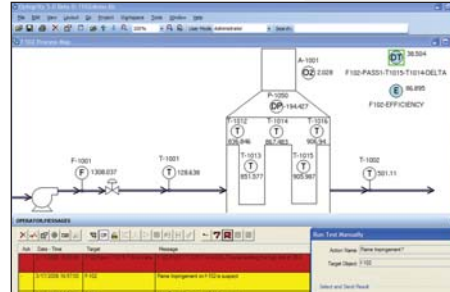
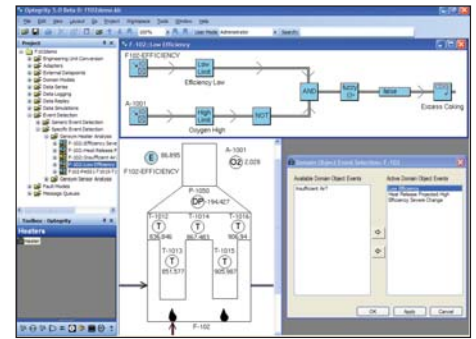
JUMP STARTING WITH INTELLIGENT OBJECTS

G2 Optegrity's built in Intelligent Objects™ technology jump starts applications by encapsulating equipment expertise into highly configurable and readily extendable software objects. Each Intelligent Object contains rule logic for proactively monitoring equipment conditions to detect problem early, trigger diagnosis, and alert operators to take action – before the problem reaches the alarm limits of a traditional automation system. Problems detected can include those related to efficiency, equipment failure, environmental regulations, and unsafe conditions.

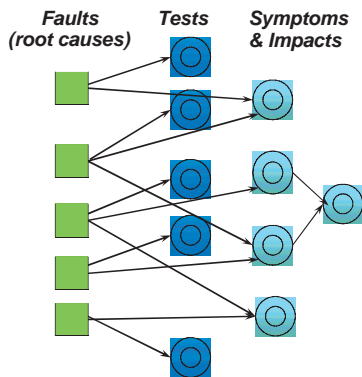
G2 Optegrity includes a library of prebuilt Intelligent Objects for manufacturing equipment that are designed to be extended, including those for furnaces, compressors, sensors, and controllers.

Intelligent Object advantages include:

- Readily creatable and extensible for a wide variety of equipment types
- Intuitive representation of event detection logic through a graphical language
- Reusability through generic representation of logic



G2 Optegrity combines problem prediction and diagnosis to deliver comprehensive abnormal condition management.



G2 Optegrity's SymCure module graphically diagnoses root causes and impacts of abnormal conditions.

SYM CURE FOR GRAPHICAL DIAGNOSIS

G2 Optegrity's SymCure™ module is a powerful and intuitive reasoning engine for rapidly isolating root causes of abnormal conditions. Application builders graphically construct reasoning models that describe the cause-effect relationships between problems and their symptoms. When symptoms occur, SymCure applies these models to identify a problem, isolate the root cause, assess impacts, and recommend corrective actions. SymCure works across a process – for example a low pressure symptom for a compressor would trigger SymCure to check the health of upstream equipment, such as instruments, controllers, vessels, or heat exchangers.

SymCure advantages include:

- Reusability through generic templates of root-cause models
- Intuitive graphical modeling of root-cause, symptom, and impact relationships
- Diagnosis of system-wide problems impacting related equipment, such as for a production unit

ABOUT GENSYM

Gensym Corporation is a leading provider of rule engine software and services for mission-critical solutions that automate decisions in real time. Gensym's flagship G2 software applies real-time rule technology for decisions that optimize operations and that detect, diagnose, and resolve costly problems. With G2, the world's largest organizations in manufacturing, utilities, communications, transportation, aerospace, finance and government maximize the agility of their business and achieve greater levels of performance.

Major users include ABB, Alcan, BP, Dow Chemical, DuPont, El Paso Energy, Eli Lilly, Ericsson, ExxonMobil, Ford, Hitachi, HP, JEA, Lafarge, Motorola, Nokia, Panama Canal, Siemens, Tokyo Electric and Power, Toyota, the U.S. government and many others.

Gensym and its numerous partners deliver a range of services throughout the world, including training, software support, application consulting, and complete solutions.

For more information, visit Gensym at www.gensym.com, or call 1-800-896-3030 (U.S. and Canada) or +1-781-265-7100 (worldwide).