



IPRC Field Agent

The secure and hassle-free connection option to enable your GE SmartSignal powered by Predix subscription service

Features

- Appliance solution
- Ruggedized computer
- No listening ports
- Initiates all connections
- FIPS 140-2 compliant
- High-speed data collection

Benefits

- Secure
- Fast install
- Reliable industrial-strength platform
- Easily scalable

GE's Industrial Performance & Reliability Center (IPRC) helps close the gap between powerful new technology and maintenance engineers on the ground—between great software and people who have to turn a wrench. If you're like most maintenance and reliability engineers, you're extremely busy; you just need help, and you just need answers. The IPRC can help you get those answers with mature and simple predictive analytics and experienced engineers you can trust from GE. All the Center needs is a connection to your data.

IPRC Field Agent

That connection just got easier with the IPRC Field Agent, an industrial-appliance solution featuring a ruggedized PC and factory-installed software from GE that is pre-registered and assigned to you prior to shipment. This highly secure, highly scalable appliance is owned and operated by GE throughout your IPRC-subscription term and is provided to you to collect and transmit time-series data—such as temperature, speed, pressure, and flow readings—from your plant-historian database to the GE Intelligent Platforms secure hosting facility. All you need to do is provide an IP address, an Ethernet connection, and a place to plug it in.

IT peace of mind

The IPRC Field Agent is highly secure because it initiates all connections. Locally from the plant side, connection is limited to your process-historian equipment data only through a TCP/IP connection over Ethernet and specific-named ports that you supply. Externally, the IPRC Field Agent Appliance is a channeling device that is capable of transmitting, but not receiving, data. It has no listening ports, that is, no inbound connections are allowed from the Internet. At the GE data center, your data is stored on a secure hosting facility, where it can be accessed and analyzed by a Customer Reliability Engineer (CRE).

When the IPRC Field Agent is connected at your site, it uses HTTPS to initiate a secure connection and request a secure tunnel using our iAgent to the GE cloud.

The IPRC Field Agent is authenticated via token service by the GE cloud before any data is transmitted. Data is encrypted through SSL and TLS using X.509 PKI; Field Agent tunneling encryption technology uses RSA BSAFE SSL-J, which is FIPS 140-2 compliant.



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IPRC personnel use RDP access for remote Field Agent configuration, which is initiated through iAgent and secured with X.509 certificates & specific Windows log-in credentials. RDP traffic flows through a secure tunnel using the same encryption technology described above.

Your process data is segregated in a customer-specific data store on the cloud historian. Customer and site-specific tags and GE SmartSignal assets are created, allowing the SmartSignal software to run analytics on your assets in the cloud, where they are reviewed and analyzed by a GE engineer. At no time is your data viewable by other customers of the IPRC.

Highly scalable for future growth and better diagnostics

Because the IPRC Field Agent factory-installed software includes GE Historian with the capability to collect and transmit thousands of tags at sub-second rates, and our cloud Field Agent Server provides remote capability to map your process tags to our analytic blueprints, we can easily expand and add to your subscription services as you grow with us.

With easy access to your key process data and analytics at their fingertips, our reliability engineers and managers can better diagnose any issues and provide more details around any pending equipment issues so you can schedule recommended maintenance activities with complete peace of mind.

Hardware Specifications

- RXE IPC XP, Dual Core i7 2.5GHz, 8 GB RAM, 320 GB SATA Hard Drive, 5xGbe, 4 USB2.0

Dimensions (H x W x D)

- 207 x 252 x 121 mm

Mechanical

- Rugged aluminum housing for optimal thermal management and durability, protection against particles based on IP20, flat mounting

Miscellaneous

- Timer (IO Hub integrated): Legacy PC AT; High Precision Event Timer, watchdog (IO Hub integrated), temperature sensors: CPU die – Software readable (-15°C to +105°C), internal box temperature with status LED for over-temperature, Real Time Clock: RTC 146818 compatible, Li-battery, Battery: Access of the device for exchange

Power

- Input: 24V DC (±25%) with protection (US plug type included)

Environmental

- Standard Operating: 0°C to +55°C
- Standard Storage: -40°C to +85°C
- Extended Operating: Up to -10°C to 65°C
- Extended Storage: -40°C to +85°C

All values under typical conditions without added expansion slot cards.

Software Specifications

- Microsoft® Windows® 7 Professional 64-bit, GE Historian, GE iAgent Client, Field Agent Client software all pre-installed.

About GE

GE (NYSE: GE) is the world's Digital Industrial Company, transforming industry with software-defined machines and solutions that are connected, responsive and predictive. GE is organized around a global exchange of knowledge, the "GE Store," through which each business shares and accesses the same technology, markets, structure and intellect. Each invention further fuels innovation and application across our industrial sectors. With people, services, technology and scale, GE delivers better outcomes for customers by speaking the language of industry. www.ge.com

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