

# **Architectural Overview INSIGHT Remote Monitoring Platform**

The INSIGHT platform provides remote environmental monitoring, data logging, and system auditing. Anywhere you have access to the Internet through a computer or a smart device, you can receive E-mail and text alerts, securely monitor your environment, manage your sensors, and generate reports. The Winland Electronics remote monitoring solution protects data security, integrity, and privacy with a proprietary, encrypted data protocol and secure socket layer (SSL) data traffic.

The INSIGHT user interface is divided into the following functional areas represented by the corresponding menu tabs:

- **Dashboard**—Shows status-at-a-glance for all EA800-ip devices on an account, plus access to sensor detail and geographic location for a selected device.
- **Reports**—Creates and schedules reports containing information for selected time periods from sensor logs and device alert logs.
- **Account Administration**—Manages the INSIGHT environment configuration including customer accounts, user IDs, EA800-ip devices, sensors, and locations.
- **Profiles**—Creates and manages profiles that specify notification and remedial actions to perform in the event of a sensor alert.

## **Summary**

INSIGHT is a software-as-a-service (SaaS) platform that is built on the Microsoft® Cloud product known as Azure:

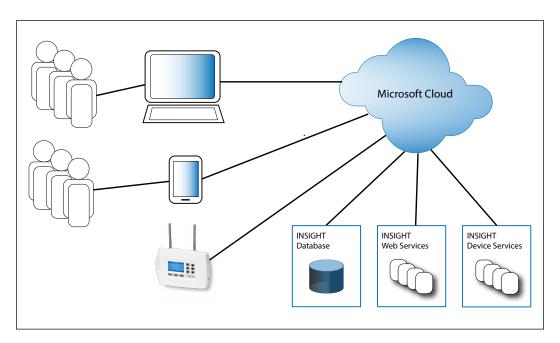
- EA800-ip devices connect to the INSIGHT platform through the Hypertext Transfer Protocol Secure (HTTPS) protocol (port 443)
- EA800-ip devices establish only outbound communications with the INSIGHT platform and do not accept inbound connections.
- INSIGHT supports the Dynamic Host Configuration Protocol (DHCP) and the static IP method for acquiring IP addresses.
- INSIGHT resides on a remote server and runs on a computer or smart device through an Internet browser
- INSIGHT access is authenticated by user ID and password with lockout protection.

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# **INSIGHT Network Diagram**

The INSIGHT platform communicates through the Microsoft Cloud with users on computers and mobile devices (INSIGHT Web Services) and with EA800-ip devices (INSIGHT Device Services). Environment constructs and data are maintained in the INSIGHT Database.



### **Network Protocols**

The INSIGHT platform supports the following network protocols:

Protocol Type	Protocols
Encryption	Transport Layer Security (TLS) 1.2
Communication	HTTPS
IP Addressing	DHCP, Static IP
Packet Size	< 5kB
Network Connection	Ethernet cable 10/100 - see User's Guide

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## **System Requirements**

INSIGHT is a web-based platform that is available on a host server and can run on any device that supports an Internet browser, such as a desktop or laptop computer, tablet, or smartphone.

#### **Supported Internet Browsers**

INSIGHT supports the following Internet browsers (the lastest version is recommended):

- Google Chrome<sup>™</sup>, version 20 or later
- Opera Browser<sup>™</sup>, version 12.10 or later
- Mozilla® Firefox®, version 19 or later
- Microsoft Internet Explorer®, version 11
- Microsoft Edge<sup>™</sup>, all versions
- Apple® Safari®, version 8.0 or later

#### **Supported Mobile Devices**

INSIGHT supports the following mobile devices:

- Apple mobile devices, latest version
- Android<sup>™</sup> mobile devices, latest version

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