OPC Interface

User Manual

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1.0 Introduction

The Cypress Monitoring System is a combination of Cypress field devices and a Blue Box Server (BBS) used to provide a wireless monitoring system that can stand alone or be integrated with an existing building or facility automation system.

The Cypress monitoring system can be setup one of two ways:

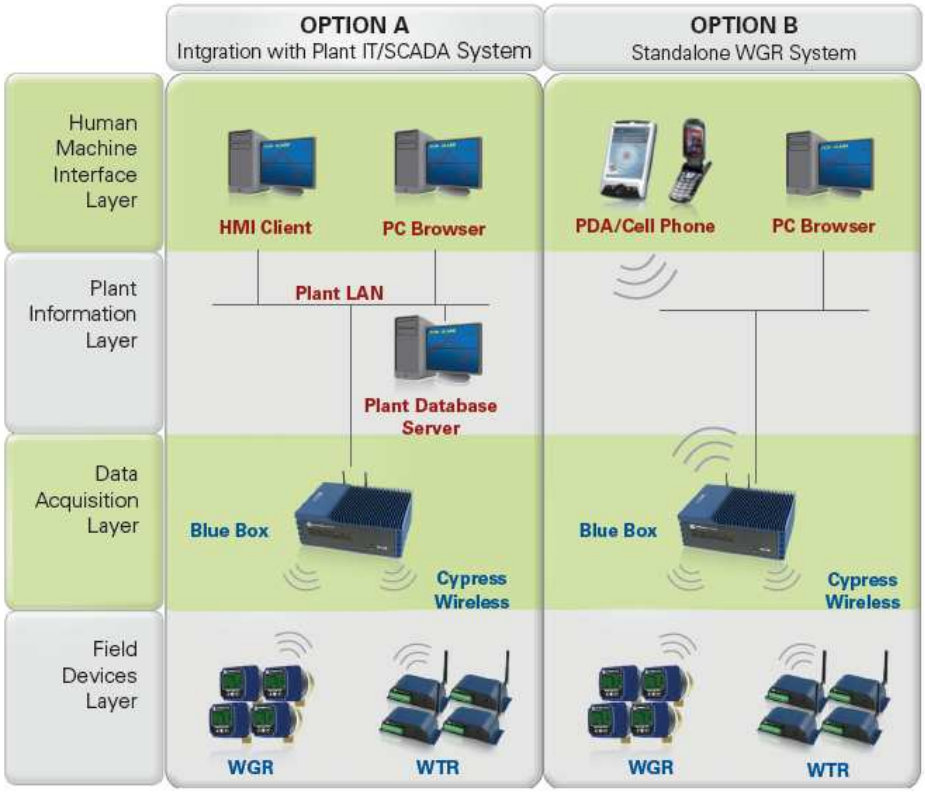

Figure 1. Cypress Monitoring System Setup Options

Data collected using Cypress field devices is wirelessly transmitted to and stored on the BBS. Data can be viewed and extracted from the BBS three ways:

- Web Service
- OPC Interface
- The Cypress Web Console

This manual describes how to access the BBS through the OPC interface.

2.0 Operation of the OPC Interface

Below is the list of all the tags that are exposed from WGR OPC server. From any OPC Client, the user can connect to WGR.OPC.1 and query any of the tags mentioned below. These tags are categorized based on the device NodeID used on the server side, and are defined here so that it is easy for the user to configure the tags on the OPC client side.

2.1 Wireless Gauge Reader (WGR)

WGRNodeID	NodeID assigned by WGR server
WGRReading	WGR device reading. These contains the converted engineering reading
WGRUnit	WGR Reading unit type. E.g. PSI, C, F
WGRBatteryStatus	WGR battery status reading in %. 100 means battery is full
WGRTemperature	WGR Temperature reading in C
WGRRSSI	Signal strength from the device or the last repeater if there is a repeater.
WGRTimestamp	Time stamp when the data arrived at the server

2.2 Wireless Transducer Reader (WTR)

WGRNodeID	NodeID assigned by WGR server
WGRReading	WGR device reading. These contains the converted engineering reading
WGRUnit	WGR Reading unit type. E.g. PSI, C, F
WGRBatteryStatus	WGR battery status reading in %. 100 means battery is full
WGRTemperature	WGR Temperature reading in C
WGRRSSI	Signal strength from the WTR device or the last repeater if there is a repeater.
WGRTimestamp	WTR Time stamp when the data arrived at the server

2.3 Wireless Steam Trap Monitor (WSTM)

WGRNodeID	NodeID assigned by WGR server. In case of WSTM this is the DeviceID of the WTR. Because every WSTM has 2 output
WGRReading1	Inlet Temperature in C
WGRReading2	Outlet temperature in C
WGRReading3	Delta Temperature in C
WGRBatteryStatus	WTR battery status reading in %. 100 means battery is full
WGRTemperature	WTR Temperature reading in C
WGRRSSI	Signal strength from the device or the last repeater if there is a repeater.
WGRTimestamp	WTR Reading Time stamp when the data arrived at the server

3.0 Support

For additional support, please contact us directly.

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