

1 DESCRIPTION

As an Endpoint Agent, the FieldServer gateway will allow the EnergyWise cloud access to standard Building Automation components such as HVAC and lighting systems. In this configuration, the FieldServer becomes an EnergyWise Proxy to legacy and non EnergyWise devices. The FieldServer Endpoint agent consists of a Parent Node (FieldServer) as well as several Child Nodes (third party devices such as a Power Meter on Modbus).

1.1 Connection Facts

FieldServer Mode	Nodes	Comments
Server	One Parent Node	Only a single Parent Node is supported.
	Multiple Child Nodes	The number of Child Nodes is limited to the maximum configurable points supported by the FieldServer.

2 FORMAL DRIVER TYPE

Ethernet
Server Only

3 COMPATIBILITY

FieldServer Model	Compatible
FS-B35 Series	Yes
ProtoNode/ProtoAir	No
QuickServer FS-QS-10xx	No
QuickServer FS-QS-12xx	Yes
QuickServer FS-QS-20xx	No
QuickServer FS-QS-22xx	Yes

4 CONNECTION INFORMATION

Connection Type: Ethernet
Ethernet Speeds Supported: 10Base-T, 100Base-T¹

5 DEVICES TESTED

Device	Tested (FACTORY, SITE)
JouleX	Factory
Catalyst 2960 router	Factory

6 SUPPORTED COMMUNICATION FUNCTIONS

6.1 Energy Wise Attributes Supported

Parent Device Attributes	Description
Domain	EnergyWise Domain that the Endpoint will be contained within.
Secret	Secret code to gain access to the Domain, string ASCII up to 255.
UDP Port	Configurable UPD port number (n1, n2).
Discovery Interval	Configurable Discovery Interval.
Role	Role definition for Parent Node.
Keywords	One or more keywords which are used to identify the Node.
Device Type	Device type for Parent Node.
Importance	Importance Value for Parent Node, Default 100.
Parent Power	Parent Node Power. Defaults to 6 Watt typical 5-10W. Actual power consumption of FieldServer.

¹ Not all FieldServer models support 100BaseT. Consult the appropriate instruction manual for details of the Ethernet speed supported by specific hardware.

Child Device Attributes	Description / Legal values
Role	Role definition for Child Node.
Keywords	Keywords used to search for Child Nodes.
Device Type	Device type for Child Node.
Importance	1 to 100
Category	Producer, Consumer , Meter
Units	Watts , MWatts
Caliber	Max, Presumed, Unknown, Actual , Trusted

6.2 Supported Read Operations

FieldServer as an EnergyWise EndPoint	Description
Get Usage	Retrieves the platform's current power usage.
Get Units	Retrieves the SI unit of Watts, Legal Values are Watts and Mega Watts.
Get Usage Caliber	Retrieves the caliber associated with the platform's current power usage. Supported values are Max, Presumed, Unknown, Actual, Trusted.
Get Level	Retrieves the platform's current power level.
Get Name	Retrieves name information.
Get Role	Retrieves role information.
Get Keywords	Retrieves keyword information
Get Importance	Retrieves importance information.
Get Entity Category	Retrieves Category Information. Supported values are Producer, Meter and Consumer.

6.3 Supported Write (Control) Operations

FieldServer as an EnergyWise EndPoint	Description
Set Level	Set the power level of the system.
Set Name	Set (override) the name information.
Set Keywords	Set (override) the keyword information.

6.4 Unsupported Functions and Data Types

FieldServer as an EnergyWise EndPoint	Description
Set Role	Not supported
Set Importance	Not supported
Set Category	Not supported