FS-8705-104 – PassiveXPath

DATASHEET – Rev 2

DESCRIPTION

The PassiveXPath Driver allows the FieldServer to transfer XML data from devices over Ethernet. The PassiveXPath Driver uses TCP. The port is configurable and the driver supports opening multiple TCP ports to receive XML data.

The FieldServer emulates a passive Server, listening on the configured TCP port. When configured, the FieldServer listens for XML data. Upon receiving the data, the data is parsed based on the configured XPaths and the values are extracted. These values are stored on the FieldServer to be mapped to other protocols or simply to be viewed.

QS-1XX0

QS-2XX0

QS-3XX0

CONNECTION FACTS

This table summarizes the number of connections this driver supports for each of its modes.

FIELDSERVER MODE	NODES	COMMENTS
Client	0	The FieldServer cannot be configured as a PassiveXPath client
Server	*	The server mode supports setting up a passive server that can receive XML data on multiple TCP ports

FORMAL DRIVER TYPE
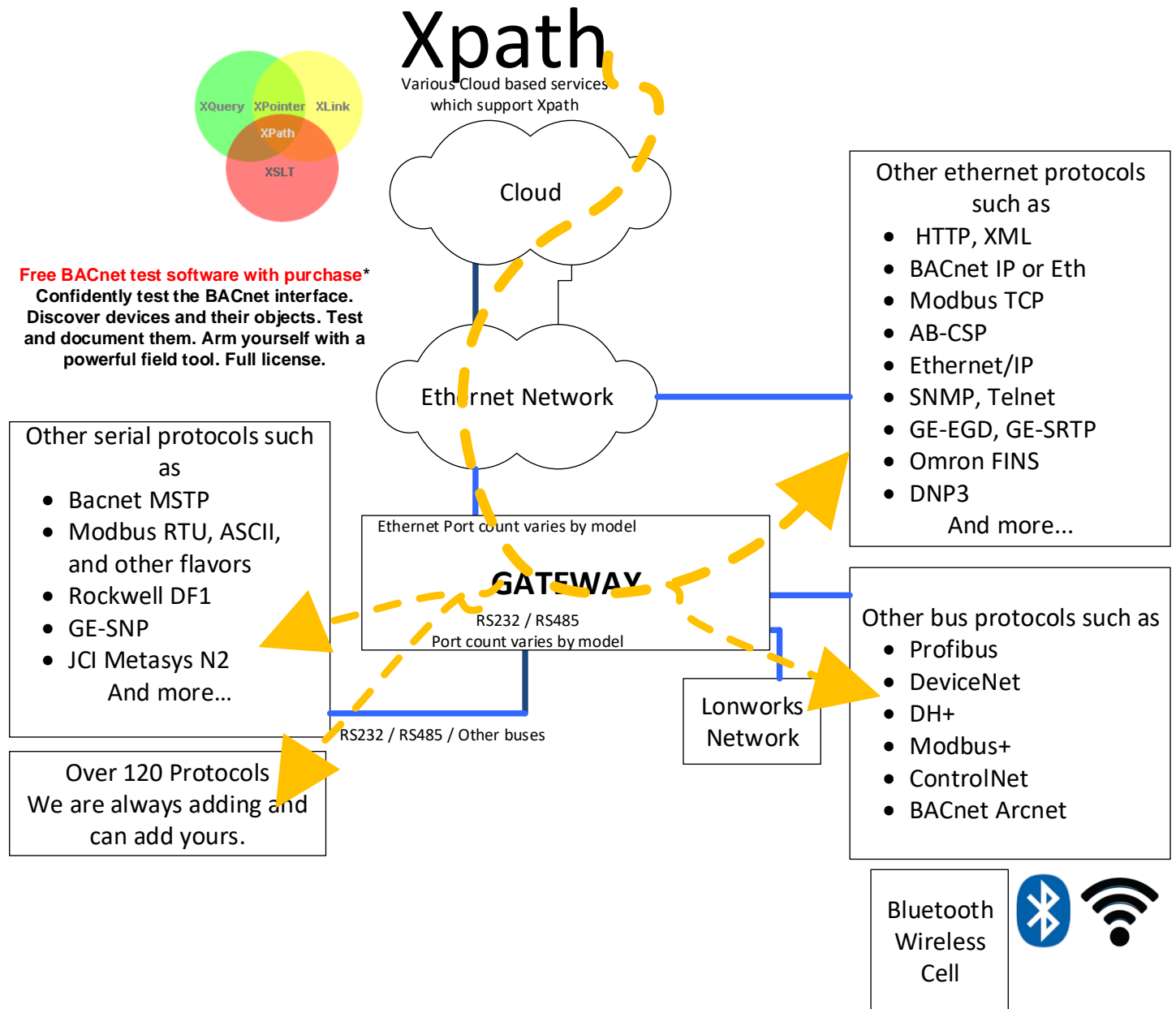
Ethernet
Passive Server

COMPATIBILITY

FIELDSERVER MODEL	COMPATIBLE
QuickServer FS-QS-1xxx	Yes
QuickServer FS-QS-2xxx	Yes
QuickServer FS-QS-3xxx	Yes

CONNECTION INFORMATION

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

CONNECTION CONFIGURATIONS

This block diagram lists common network connections that can monitor XML data using other protocols like Modbus® RTU/TCP, BACnet® and HTTP.

Xpath

XQuery XPointer XLink

XPath

XSLT

Various Cloud based services which support Xpath

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and document them. Arm yourself with a
powerful field tool. Full license.**

Cloud

Ethernet Network

Other ethernet protocols such as
- HTTP, XML
- BACnet IP or Eth
- Modbus TCP
- AB-CSP
- Ethernet/IP
- SNMP, Telnet
- GE-EGD, GE-SRTP
- Omron FINS
- DNP3
    And more...

Other serial protocols such as
- Bacnet MSTP
- Modbus RTU, ASCII, and other flavors
- Rockwell DF1
- GE-SNP
- JCI Metasys N2
    And more...

Ethernet Port count varies by model

GATEWAY

RS232 / RS485
Port count varies by model

RS232 / RS485 / Other buses

Lonworks Network

Other bus protocols such as
- Profibus
- DeviceNet
- DH+
- Modbus+
- ControlNet
- BACnet Arcnet

Over 120 Protocols
We are always adding and can add yours.

Bluetooth
Wireless
Cell

COMMUNICATION FUNCTIONS

The FieldServer is configured as a passive server. This means that it listens for any XML data packets that are sent to one of its opened ports. As such, the FieldServer must be installed and configured to be on the same network as the device sending the XML data.

The PassiveXPath driver is a read only driver and cannot control or change any data on the devices that sent the XML data.

CUSTOMER SUPPORT

PassiveXPath Driver for FieldServer was developed by Chipkin, and we are proud to provide support for our products. For technical support, sales and customer service, please call us at 1 (866) 383-1657.

Thanks for choosing Chipkin's products and integration services to meet your building and industrial automation requirements!

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APPENDIX A: DEVICES TESTED

This tables summarize the XML-enabled devices that have been tested. Other devices may be supported.

DEVICE	TESTED (FACTORY/SITE)
Sample XML Client	Factory

REVISION HISTORY

DATE	RESP.	DRIVER VERSION	DOCUMENT REVISION	COMMENTS
15 Dec 2020	ACF	0.0.2	1	Created
21 Jun 2021	YC	0.0.2	2	Updated to latest template