

FS-8705-59 – Hochiki TCP Driver

DATASHEET – Rev 2

DESCRIPTION

For application with Hochiki FireNET **Latitude** systems.

This TCP/IP driver can be used to monitor a system of Hochiki Panels by connection to a Media Gateway installed in the FACP.

The driver monitors Alarms and Trouble events of addressable devices connected on a series of loops. Some devices have sub components and are monitored by sub-addresses. In addition to Fire, Trbl and Fault events the driver provides an off-normal summary, provides loop summaries and node summaries. Panel faults are also available.

Using the FACP configuration export the driver can automatically generate a configuration suitable for conversion to BACnet. Other protocols are may also be coupled with the driver.



CONNECTION FACTS

FIELDSEVER MODE	NODES	COMMENTS
Passive Client	Many	The FieldServer will be able to Receive event notifications from many panels but is limited to one FireNET system per FieldServer.
Active Server	0	Not supported or documented. Use for Chipkin QA testing.

FORMAL DRIVER TYPE

Ethernet

Passive Client – Driver waits for unsolicited event notifications from the FACP

COMPATIBILITY

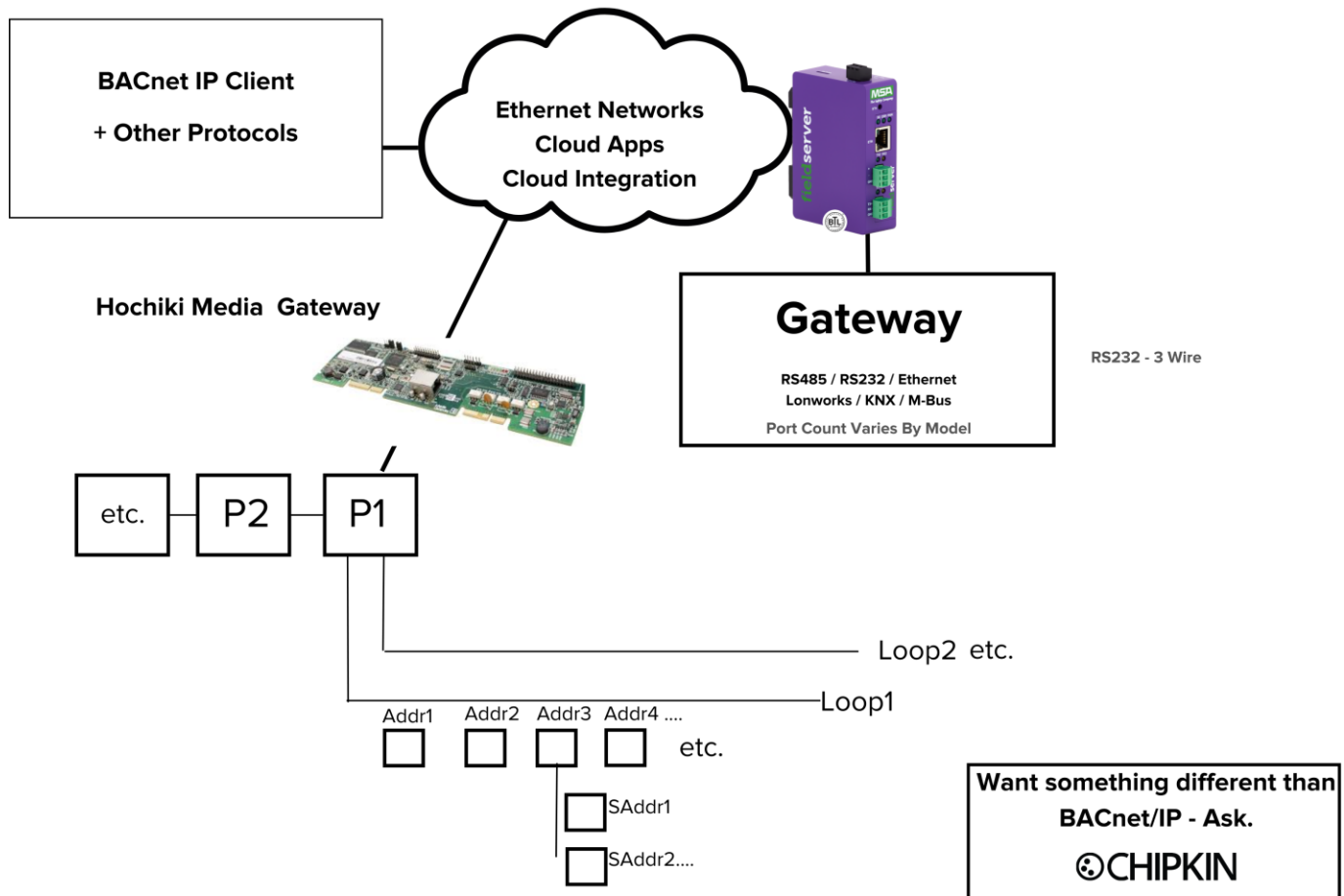
FIELD SERVER MODEL	COMPATIBLE
FS-QS-2XX0	Yes
FS-QS-3XX0	Yes
FS-QS-1X11	Yes

DEVICES TESTED

DEVICE	TESTED (FACTORY, SITE)
Hochiki FIREnet Panel with 2 loops	Chipkin Offices 2024/2025
Hochiki FIREnet Panel with 7 loops	Hochiki Asia Pacific - 2025

CONNECTION CONFIGURATIONS

Multiple upstream protocols and connection supported. See list of FieldServer Drivers.



DRIVER FUNCTIONALITY & CONFIGURATION

This driver is for application with a Hochiki FireNET Latitude System and connects to the Hochiki Media Gateway

The driver will maintain a database of active events. An event is active until a matching restore event occurs to clear it. The driver will not maintain an event history.

Using software provided by Hochiki an engineer can backup the entire FireNet site configuration as an XML file. This XML file can be loaded onto the FieldServer and can be used to auto configure the FieldServer to provide a Hochiki to BACnet IP gateway. The driver can also be manually configured. The manual provides examples and relevant information.

There are 2 separate components to the driver.

Driver 1 is the alarm processor. On Startup it reads all active events and then listens passively for the fire panel to report events. Only Fire, Trouble and Supervisory events are processed by the driver. All others are ignore.

For the most part the driver will be configured to monitor active and cleared events. If it is not correctly configured then events associated with particular loops, addresses and sub addresses will not be stored. (However, an 'error' object will be provided so that downstream protocols such as BACnet will be aware of mis-configuration. Eg. If an event occurs for loop x address y is received and the driver configuration does not contain space for storing events from loop x then the event notification will be ignored)

Driver 2 is an Active Client driver. It consumes an extra socket on the Media Gateway. It is not intended for customer use.

FieldServer Synchronization with the Hochiki System

The driver provides a synchronization mechanism which is typically executed when the gateway starts up and when it reconnects because of socket error or closure. This mechanism is driven by a request to the Hochiki System for all active events. When they have been received, the driver will clear all other data. From that point on the driver will monitor all new events by requesting them from the event log.

Driver Sockets

TCP Port 100 will be used.

Supported Hochiki Services

PACKET_TYPE_EVENT_START	Supported	0x85
PACKET_TYPE_EVENT_CLEAR	Supported	0x87
PACKET_TYPE_REQUEST_ACTIVE_EVENTS	Supported	0x4f
PACKET_TYPE_REQUEST_EVENT_LOG	Supported	0x4e
PACKET_TYPE_EVENT_ACK	Supported	0x86
PACKET_TYPE_ACK	Supported	0x01
PACKET_TYPE_NACK	Supported	0x00
PACKET_TYPE_EVENT_ID	Supported	00x02
PACKET_TYPE_START_CONNECTION_MONITORING	Supported	0xe7
PACKET_TYPE_STOP_CONNECTION_MONITORING	Not Supported	0xf4
PACKET_TYPE_HEARTBEAT	Supported	0x56
PACKET_TYPE_QUERY_LEDS_STATE		0xf7
PACKET_TYPE_CONTROL_SILENCE	Supported	0x47
All other Services	NOT SUPPORTED	
Auto Discovery	NOT SUPPORTED	
Configuration of all or aspects of the Hochiki System	NOT SUPPORTED	
Event History	NOT SUPPORTED	

CUSTOMER SUPPORT

Hochiki TCP/IP 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.

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REVISION HISTORY

This table summarizes the update history for this protocol data sheet. Please contact Chipkin by phone or email for an updated version of this document.

DATE	RESP.	DOCUMENT REVISION	COMMENTS
2024Jul19	PMC	0	For Hochiki Review
2024Sep03	PMC	Rev 1	For release
2025Feb18	PMC	Rev 2	For Customer Review