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EMPOWERING CONNECTIVITY: FlexMQ Unleashes MQTT Integration

FlexMQ is an exciting new communication software service that has been purpose-built to parse MQTT messages from Honeywell's new CPA150 and ERX150 devices. The FlexMQ solution structures field data for storage and retrieval to and from an SQL Database.

FlexMQ is a vital solution to the difficult integration problems faced in the natural gas industry for years. A FlexMQ system is scalable and powerful enough to fill the needs of an enterprise-level data collection system yet agile enough to fit into almost any infrastructure design. The "Flex" is for flexibility, and FlexMQ can be run in the cloud, on-premise, or as a hybrid solution – either on a shared server or a dedicated server.

FEATURES:

Web-based User Management Console

The intuitive web-based FlexMQ Management Console (FMC) provides cross-platform support to Administrators responsible for field devices and system parameters. FMC gives busy Administrators an easily accessible and exceptionally available administrative console.

MQTT Sparkplug B Enabled

FlexMQ is fully Sparkplug B compliant and designed for Honeywell field devices with the goal of making system setup simple and straightforward.

Visual Status and Data Quality Indicators

FlexMQ provides instant access to color coded communication and device statuses. While converting messages to SQL data, FlexMQ efficiently adds data quality information to the recorded Metrics to help with integrations into SCADA. Users will save time and effort by viewing the device population information on a single searchable screen.

Enhanced Item Publishing

FlexMQ users can request data from and write specific metrics to field units on demand - or on a schedule. FlexMQ fully supports the host publishing capabilities afforded to the Honeywell devices and provides a remarkably flexible polling utility.

Dynamic GIS Location Pins

GIS mapping adds a unique asset management exploration feature to the FlexMQ solution. FlexMQ users can instantly drill down to pertinent unit information directly from the visually presented and color-coded location pin.



TLS and TDE Encryption Support

TLS Encryption enables transactions between the field device and the broker to be conducted securely. TDE encryption protects the archived data at rest. Using these technologies gives confidence to users that the system resources are authenticated, the communication is secured, and the archived data is protected.

Near-real-time (NRT) Alert Monitoring

FlexMQ processes near-real-time alerts that originate from field devices and provides a way to respond to those alerts through consistent communication. The visual GIS mapping interface displays color-coded alert pins which provide important context, such as the location of the device or the severity of the alert. FlexMQ effectively manages field events by providing additional support for notifications (SMS, Email, and Voice), escalation strategies, and acknowledgments.

Time of Message (ToM), Interval, and Alarm Message archiving

FlexMQ's ToM feature records timestamped message data as it arrives. These selectable data values are stored to a SQL database table and then immediately minable by end users on-demand or on a schedule. Presenting data in a more linear format helps users better visualize the collected data, and storing messages over time allows for insight into patterns or exceptions.

Fully Structured Event Logging

FlexMQ employs a fully structured Event Logging process that allows the log information to be handled as data sets rather than text. This process also allows FlexMQ to send standardized logs to essentially any Analytic engine. The FlexMQ Event Logging process helps users gain system insights, improve decision-making, and even predict events.

Digitally Signed Installer

Common IT security rules block most software installations on Servers and PCs. FlexMQ's digitally signed software installer provides IT staff peace of mind that none of the software has been tampered with and helps facilitate a smooth rollout.

Multi-Broker Support

FlexMQ's multi-Broker Support ensures that the system is always available even if one of your network resources fails. FlexMQ is a multi-threaded service and can utilize multiple brokers to improve system performance and reliability.

System Requirements:

Component	Minimum Supported	Recommended
CPU	1 CPU	2 CPU
RAM	4 GB	32 GB
Disk Space	20 GB	100 GB
Operating System	Windows Server 2012	Windows Server 2019
.Net Framework	4.7.2	4.7.2
Web Server	IIS 8	IIS 10
Microsoft SQL Server	2016 Enterprise (for TDE)	2019 Standard



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Take Action Now:

Ready to transform your operations? Take the next step:

Request a Demo:

See FlexMQ in action. Schedule a personalized demo tailored to your needs. [Click here to request your demo now.](#)

Speak to an Expert:

Have questions? Our team of experts is here to assist you. Get in touch for personalized guidance. [Click here to speak to an expert.](#)

Space Coast HelpDesk is your trusted partner in revolutionizing MQTT communication integrations. Experience the FlexMQ advantage today.