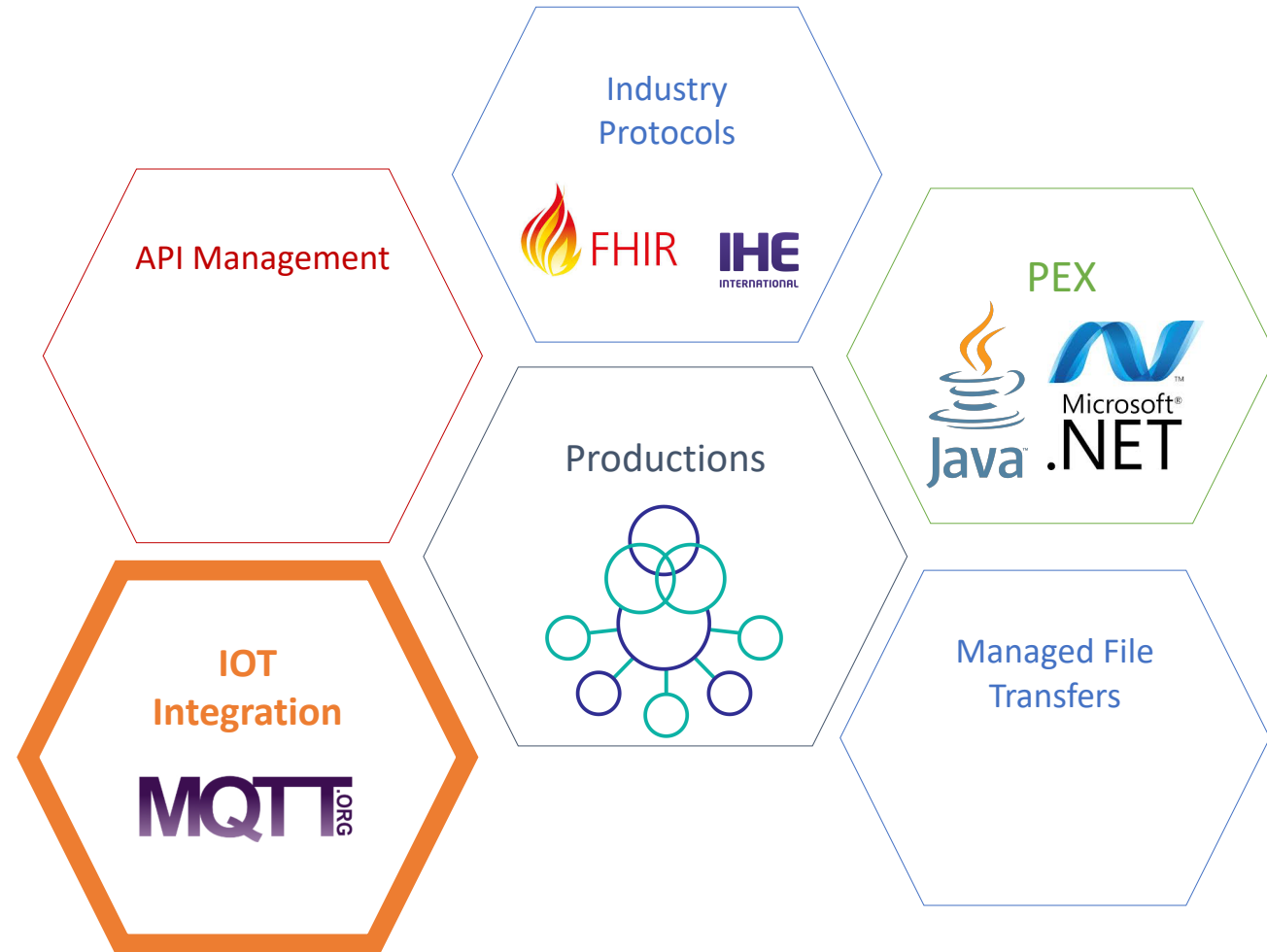


MQTT Adapters

Workshop

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What is MQTT ?

MQTT (Message Queuing Telemetry Transport)

- Lightweight message protocol designed to allow a high message throughput even over networks with limited bandwidth.
- Publish and subscribe mechanism.
- Ideally suited to the Internet of Things.
- MQTT Client
 - Subscribe to a topic (e.g. room/kitchen/temp, room/+ /temp, room/#)
 - Receive messages.
 - Publish messages.
- MQTT Server (Broker)
 - Receives and filter all messages.
 - Decides who is interested in them and deliver messages to subscribed clients.
 - (e.g. Mosquitto, RabbitMQ + MQTT Plugin).

MQTT Adapters

- IRIS supports MQTT 3.1. (OASIS standard).
- `EnsLib.MQTT.Adapter.Inbound` - connect, subscribe, and receive messages.
- `EnsLib.MQTT.Adapter.Outbound` - publish messages.

MQTT Pre-built BS, BO

- `EnsLib.MQTT.Service.Passthrough`
- `EnsLib.MQTT.Operation.Passthrough`

Classes

- `%Net.MQTT`

**MQTT
Support in
IRIS**

Main MQTT Settings

- **ClientID** – identifies your client to the broker.
- **KeepAlive** – seconds to keep alive connection to broker (combine with *FailureTimeOut* and *ReplyCodeActions*).
- **LWTTopic, LWTMessage** – Last Will and Testament message and topic (on unexpected connection).
- **QOS** – 0=Wait for delivery, 1=Fire and forget.
- **Trace** – Trace level [0-6].
- **Url** – URL like `tcp://broker.example.com:1883`

**MQTT
Support in
IRIS**



Hands-on

<https://github.com/intersystems-ib/workshop-mqtt>

