



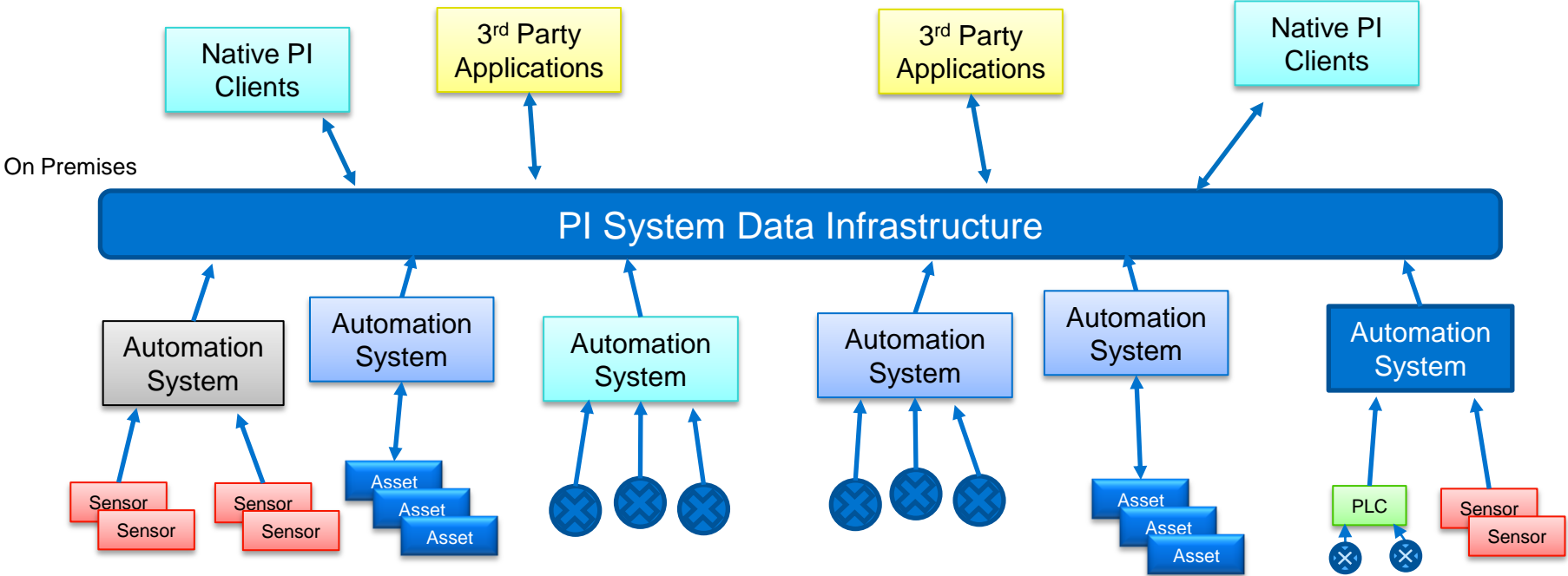
PI System Pervasive Data Collection

Presented by **Christian Leroux – Enterprise Program Manager**
Chris Felts – Sr. Product Manager

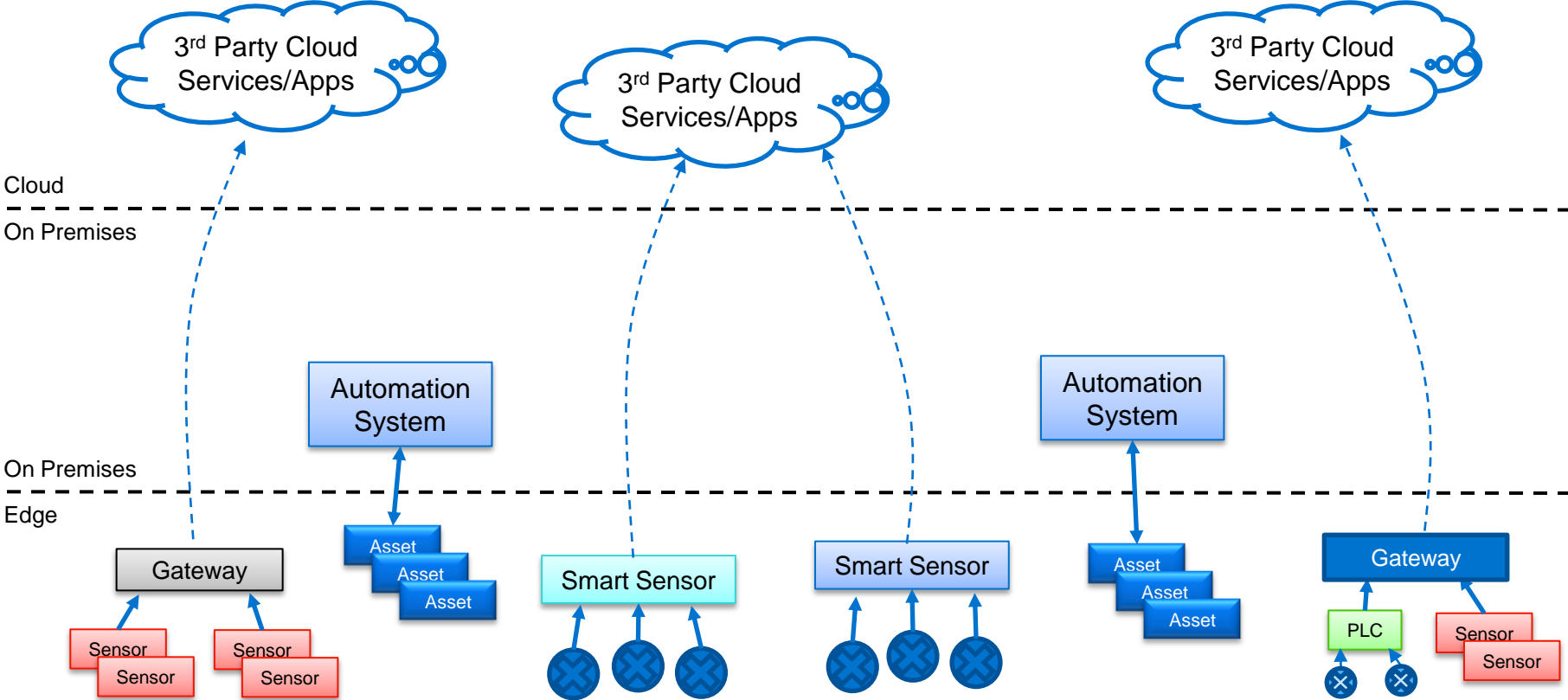
OSIsoft on Industrial IoT

“Connecting people with sensor based data in ways that were **physically** or **economically** unrealistic before”

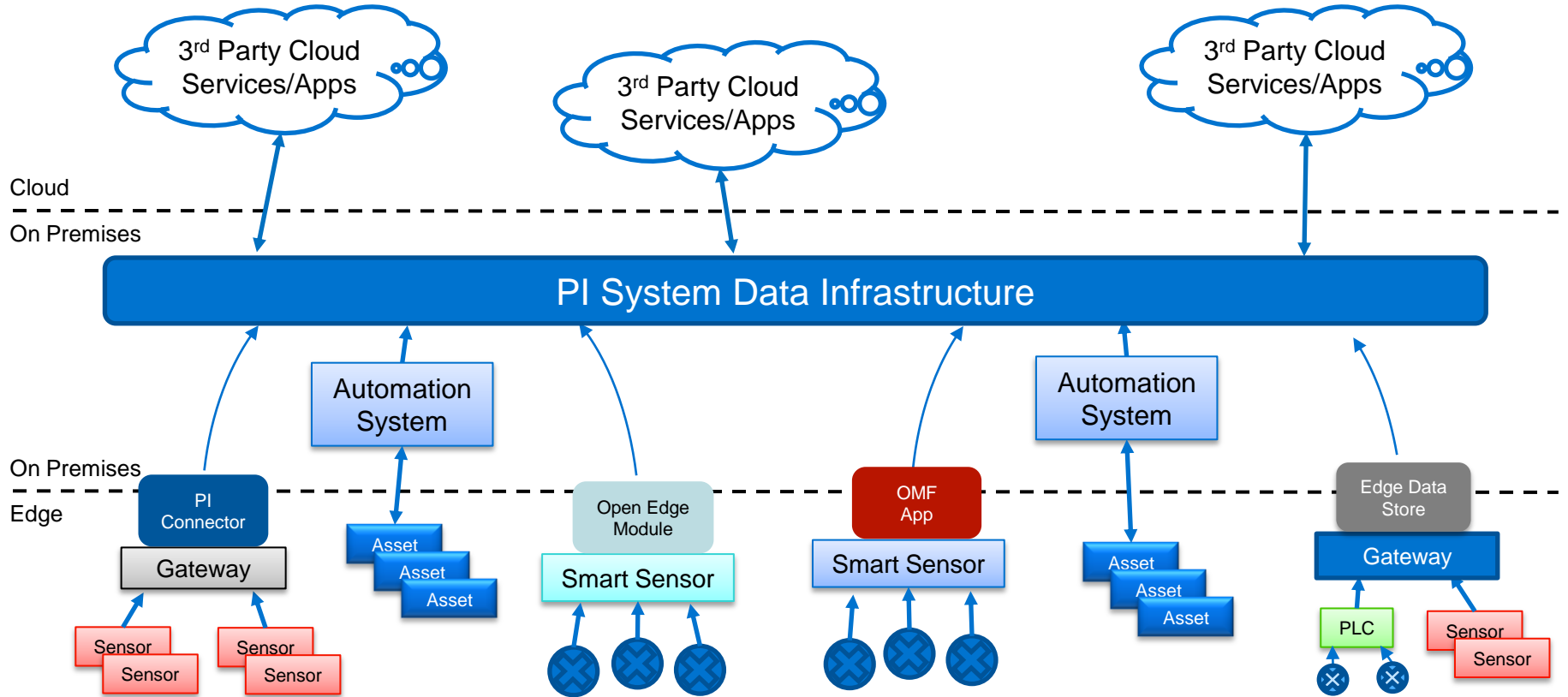
Traditional PI System Architecture



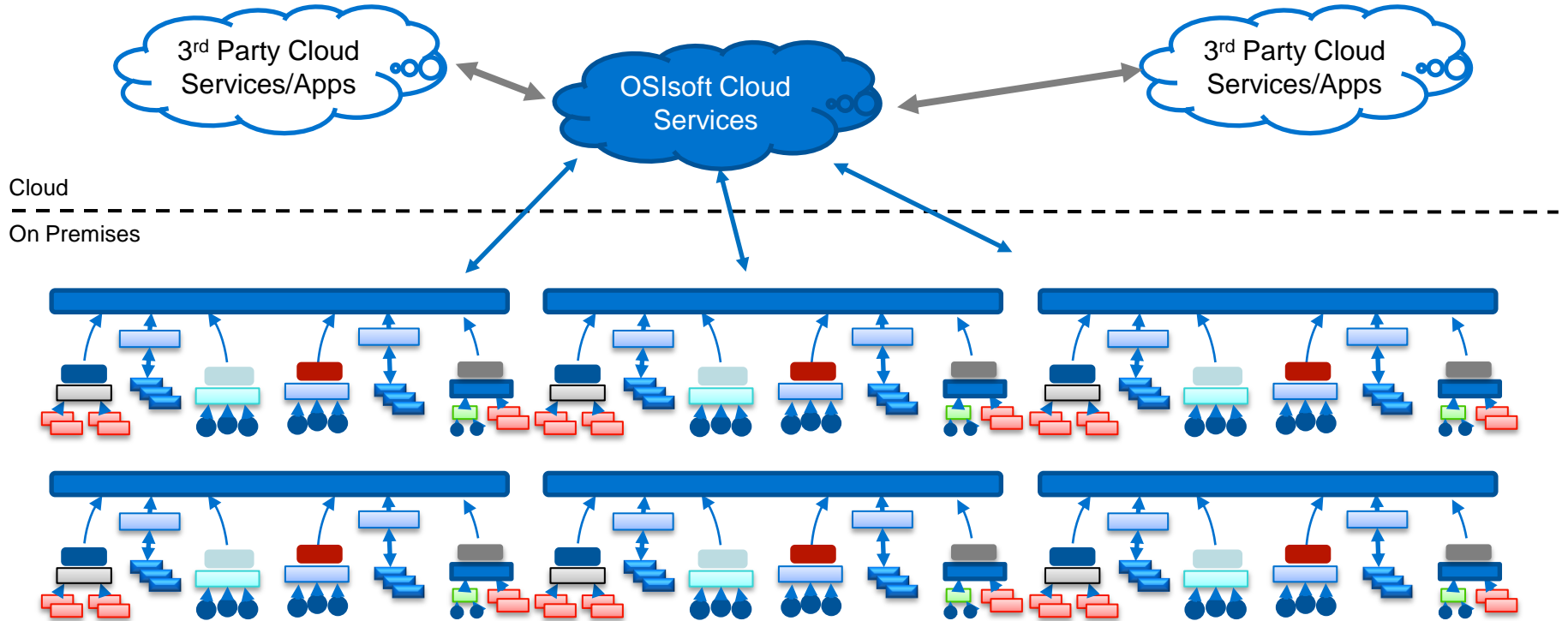
Typical Industrial IoT Architecture



OSIsoft Industrial IoT Architecture for the Enterprise



OSIsoft Industrial IoT Architecture for the Community



Pervasive Data Collection

OSIsoft Pervasive Data Collection

Ensuring no matter where your operational data resides,
there are OSIsoft technologies available to collect and store
this data

Pervasive Data Collection (PDC)

PI Connectors

Proprietary
Configured
Streaming Data
Metadata
Buffering
Filtering
Windows / Linux

Edge Data Store

Proprietary
Configured
Archived Data
Relationships
Data Access
Analytics
Windows / Linux

Open Edge Module

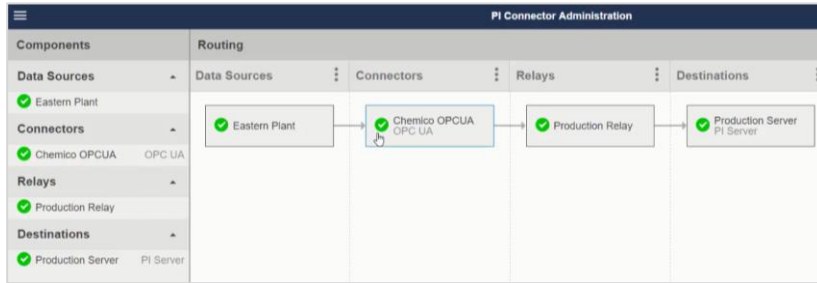
Open Source
Developed
Streaming Data
Metadata
Buffering
Linux / RTOS

OMF Apps

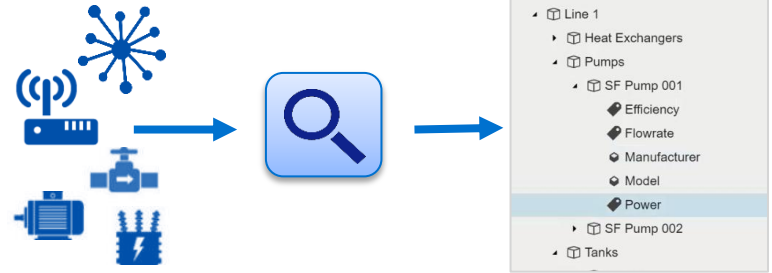
Proprietary
Developed
Streaming Data
Metadata
Custom Features
Any OS

PI Connector Technologies

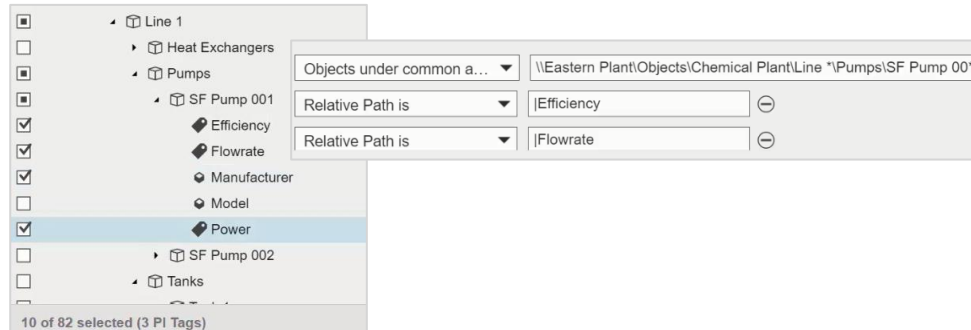
Unified user experience



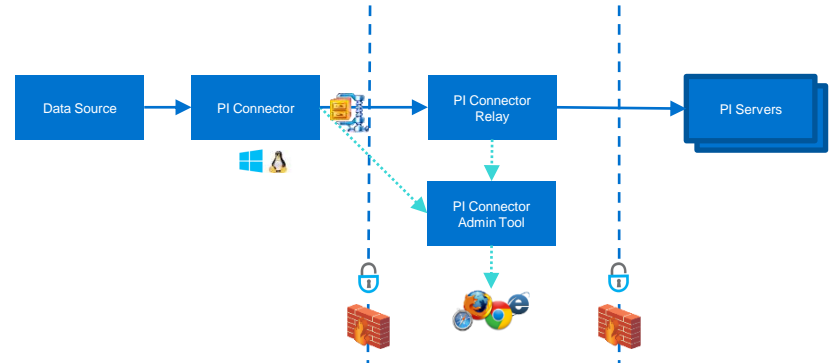
Automated data discovery



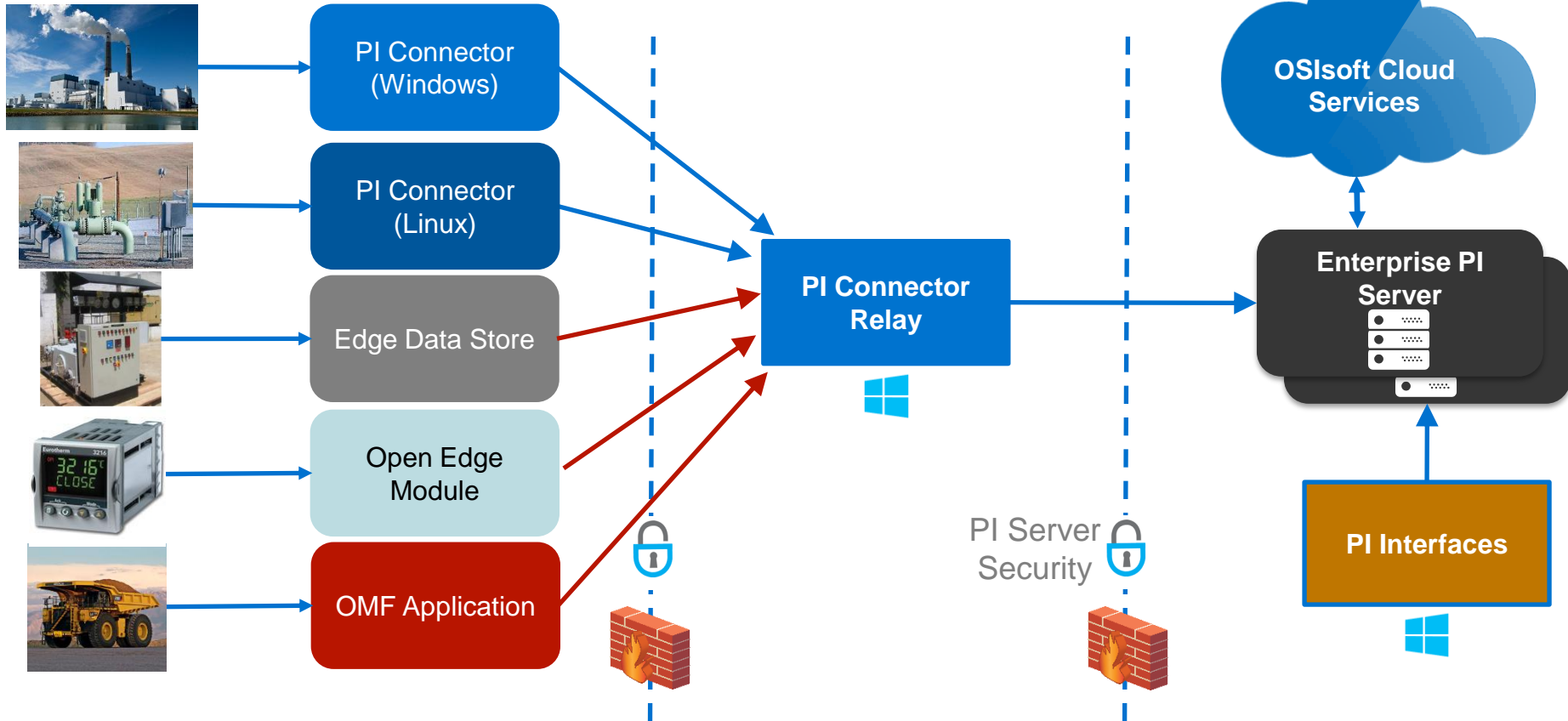
Granular and rule-based data selection



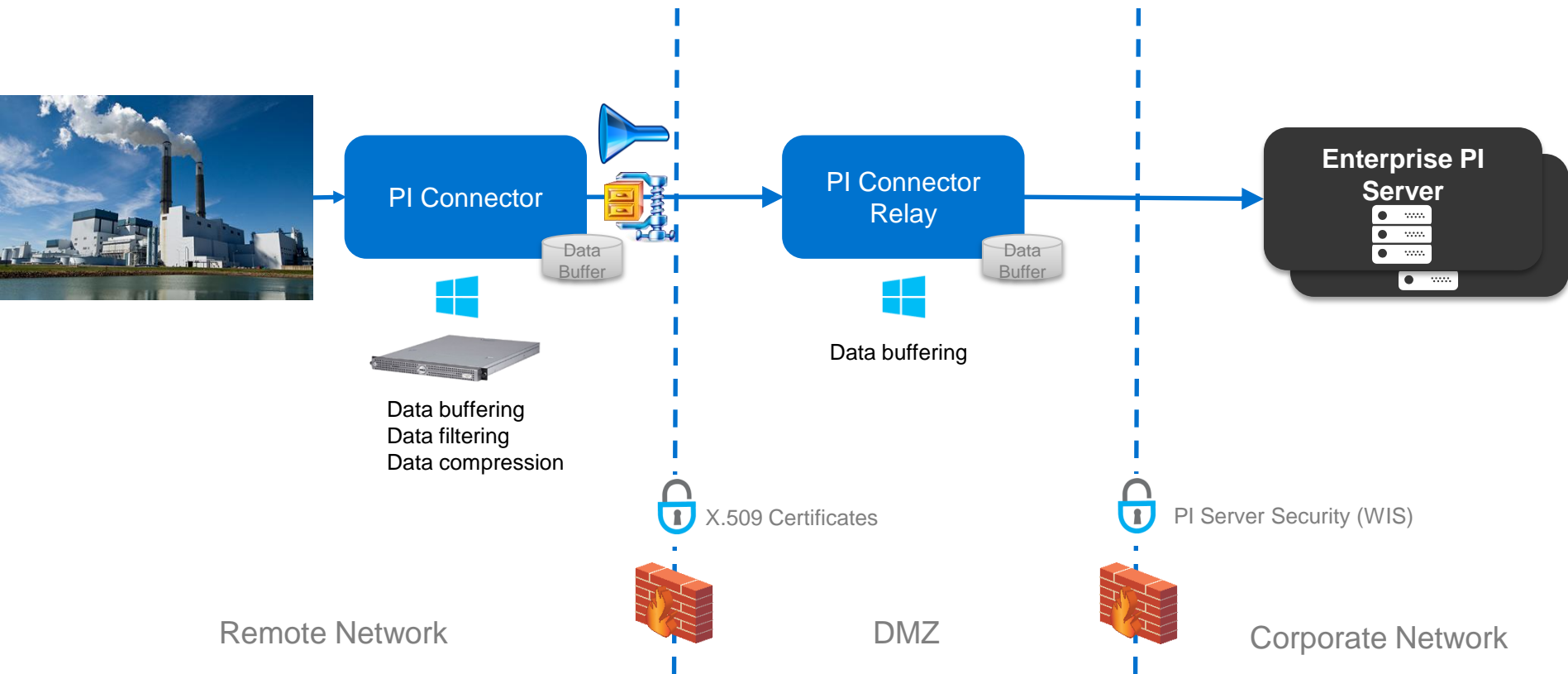
New security architecture



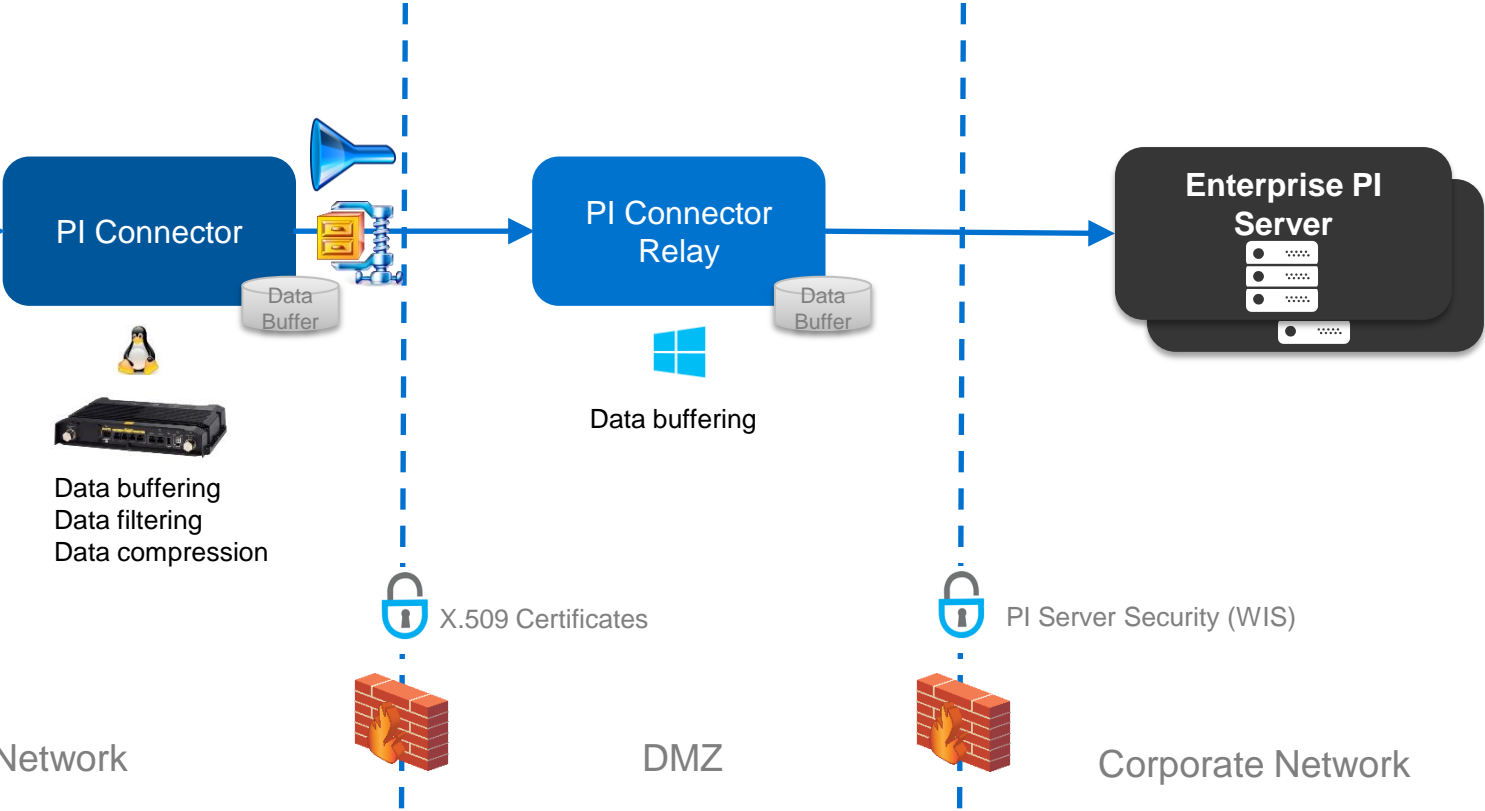
Flexibility to Choose the Right Connectivity for the Scenario



PI Connector Relay Architecture Enhances Security and Network Flexibility for IIoT Data Patterns



PI Connectors for Linux Add Connectivity for Remote and Mobile Assets





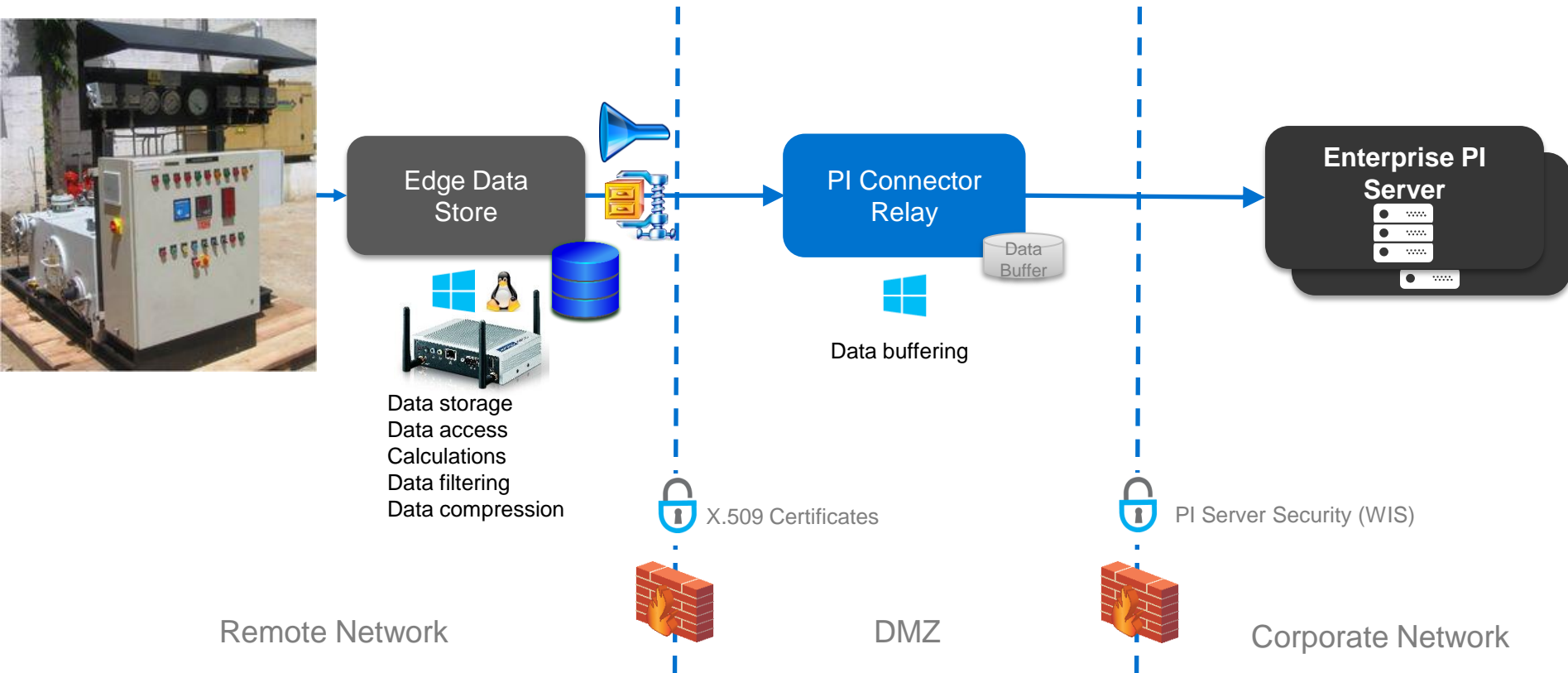
Welcome to **Cisco Fog Director**

No Apps are available

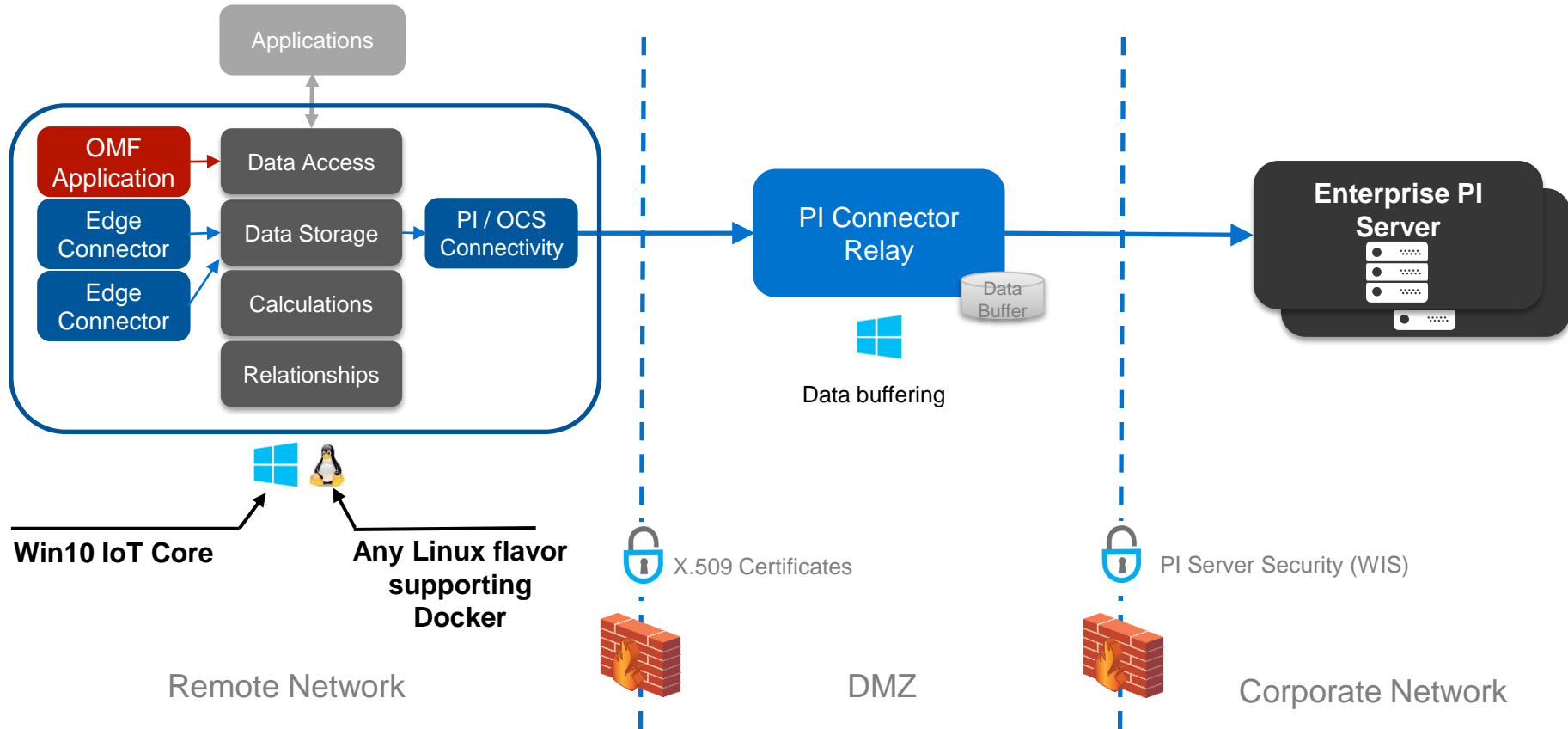
ADD NEW APP

IMPORT APPS

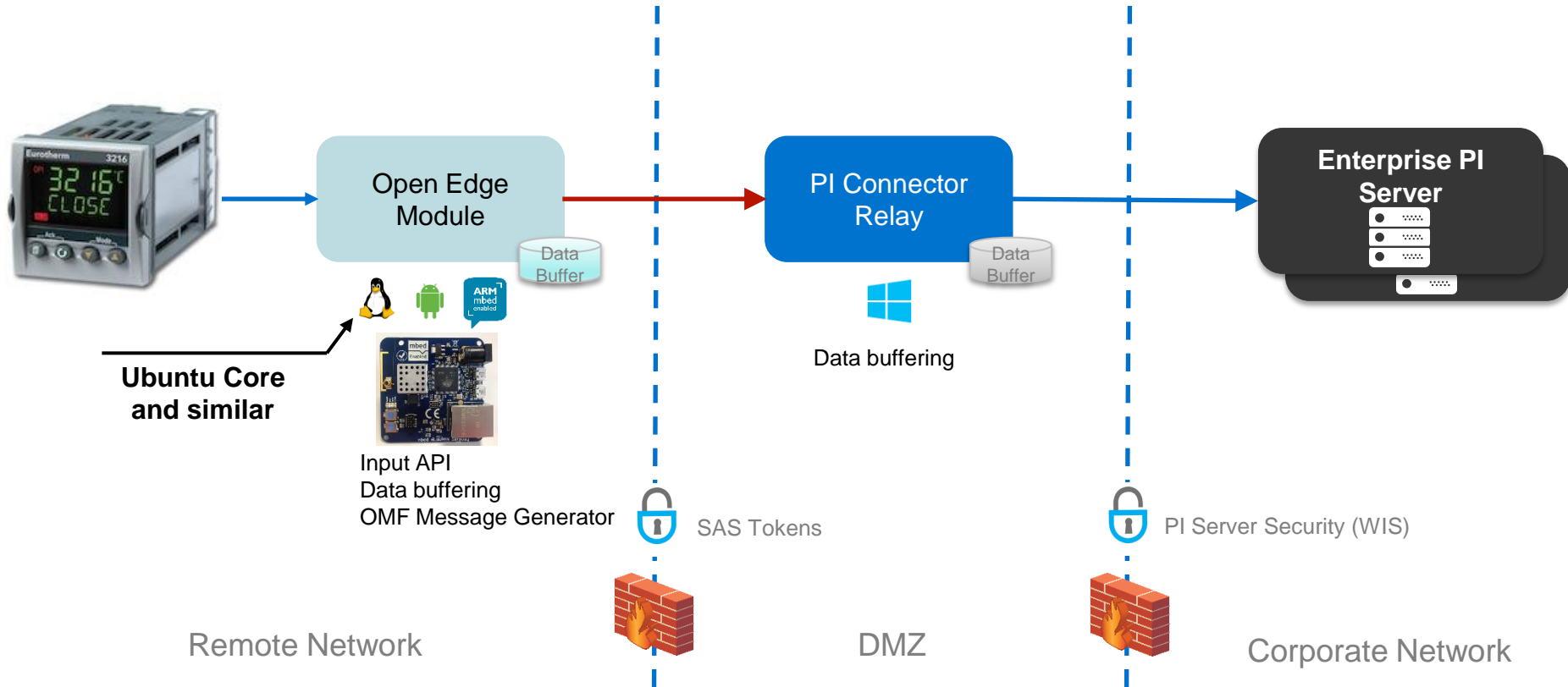
Built for Purpose: Storage, Access and Calculations for Edge Devices



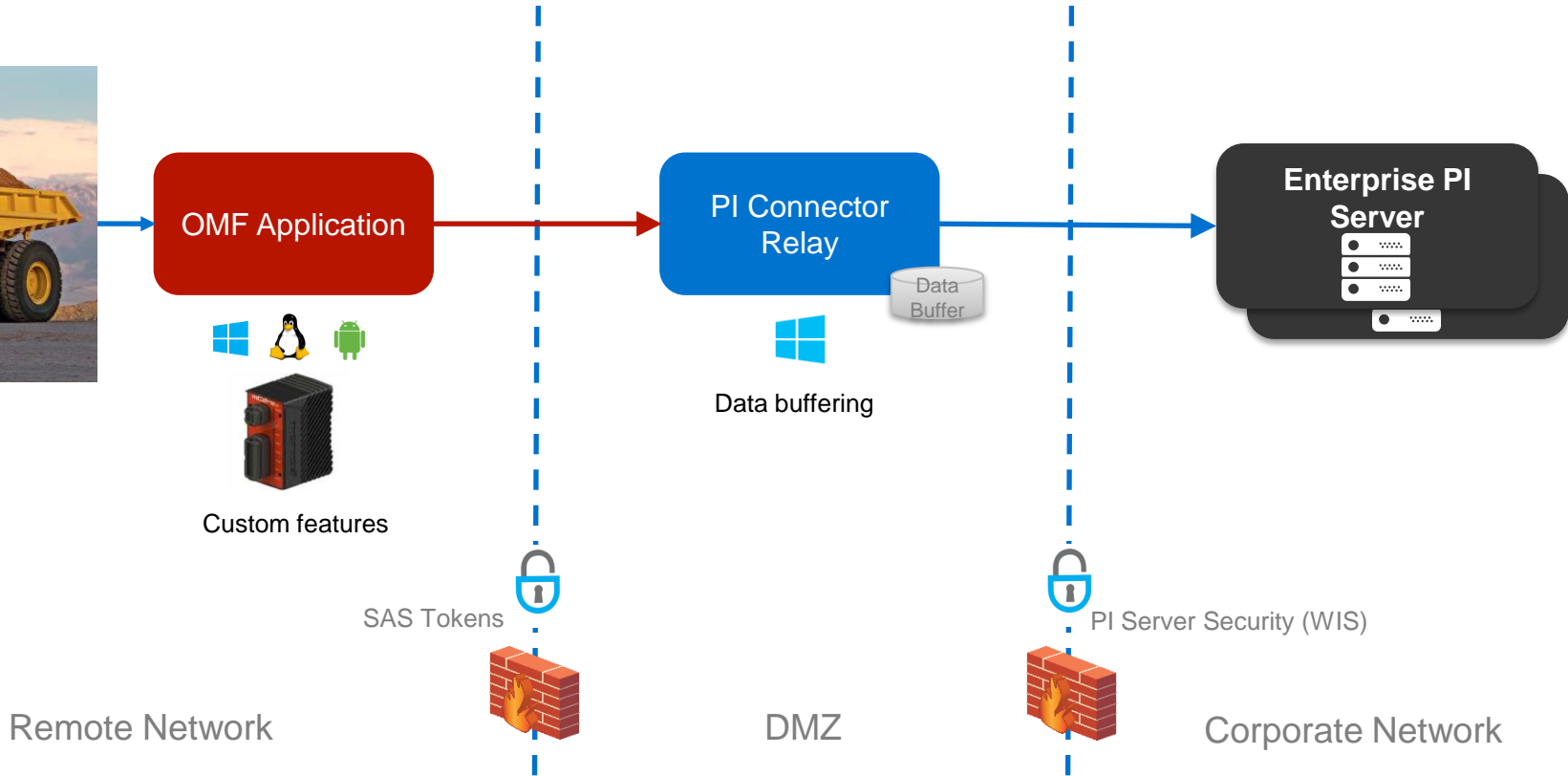
Edge Data Store Components



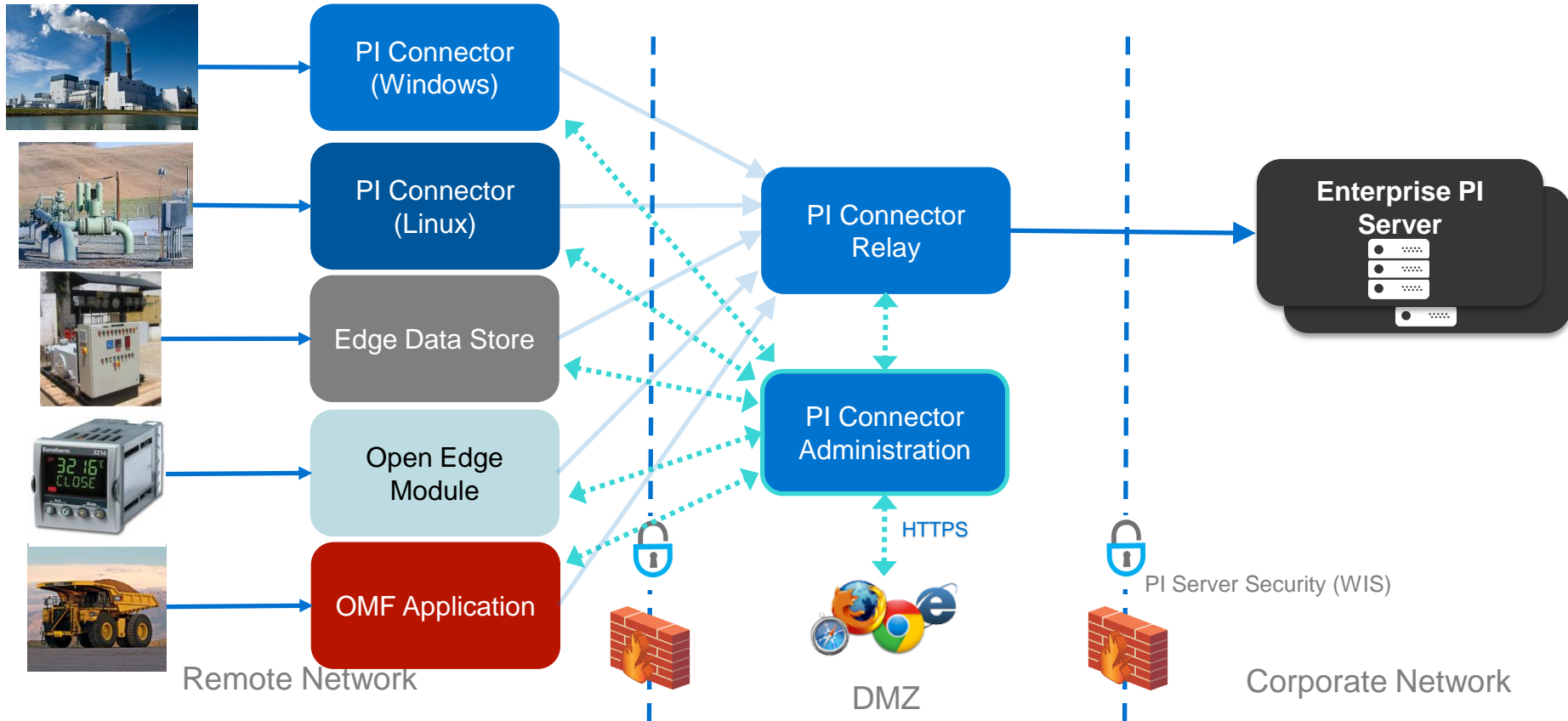
Edge Device Connectivity for the Open Source Developer Community



OMF Extends Remote Asset Connectivity Through Partner Enablement



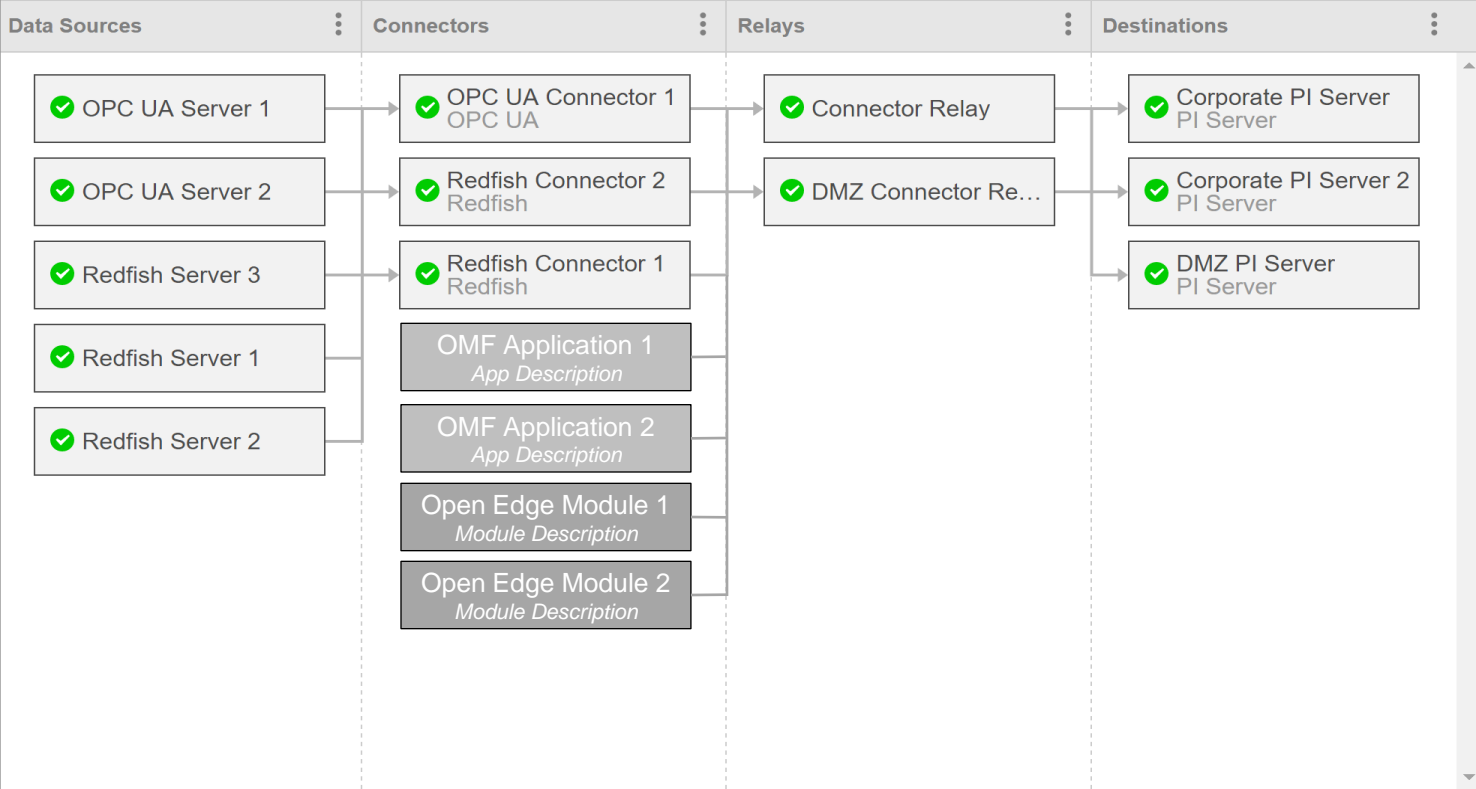
Data Connectivity Administration and Management



Components

- Data Sources**
 - OPC UA Server 1
 - OPC UA Server 2
 - Redfish Server 1
 - Redfish Server 2
 - Redfish Server 3
- Connectors**
 - OPC UA Connector 1 OPC UA
 - Redfish Connector 1 Redfish
 - Redfish Connector 2 Redfish
- Relays**
 - Connector Relay
 - DMZ Connector Relay
- Destinations**
 - Corporate PI Server PI Server
 - Corporate PI Server 2 PI Server
 - DMZ PI Server PI Server

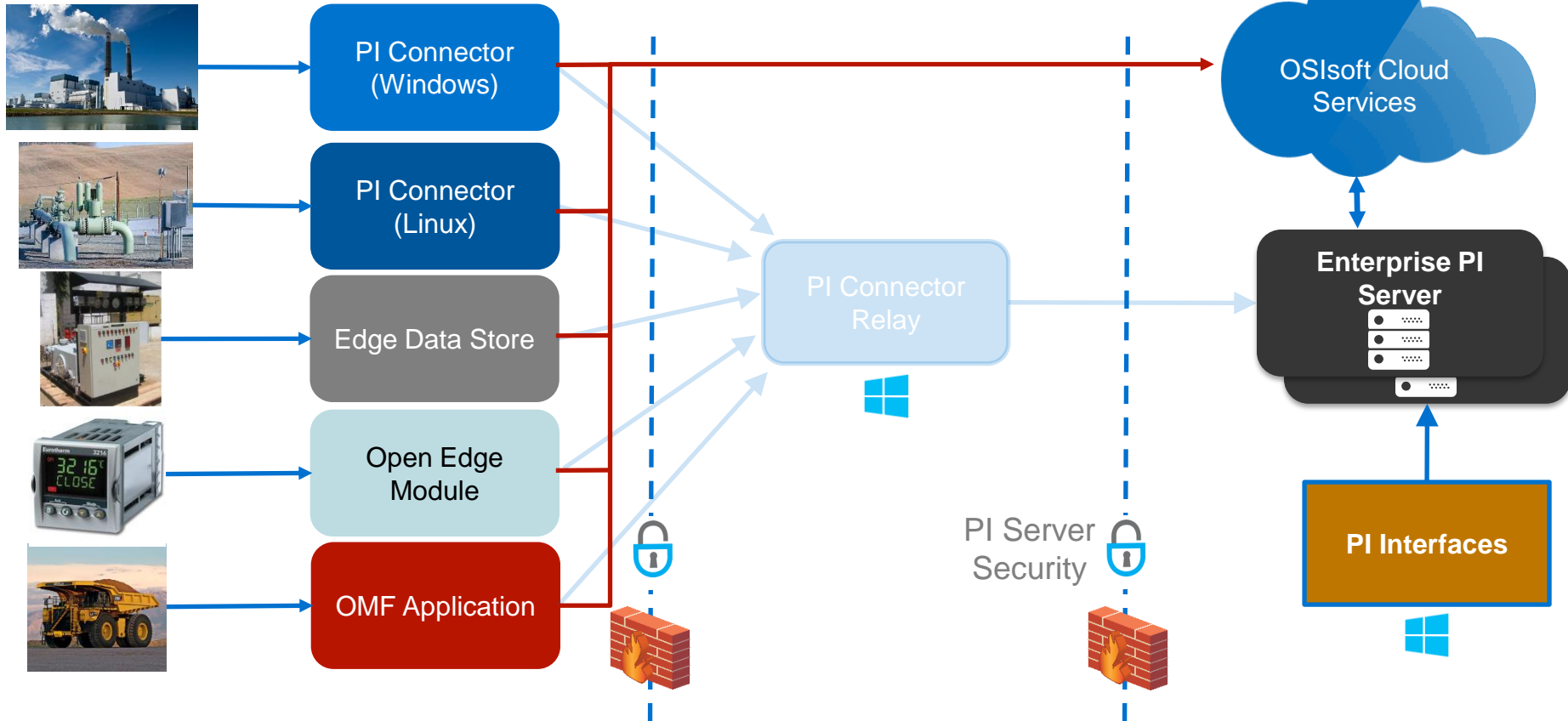
Routing



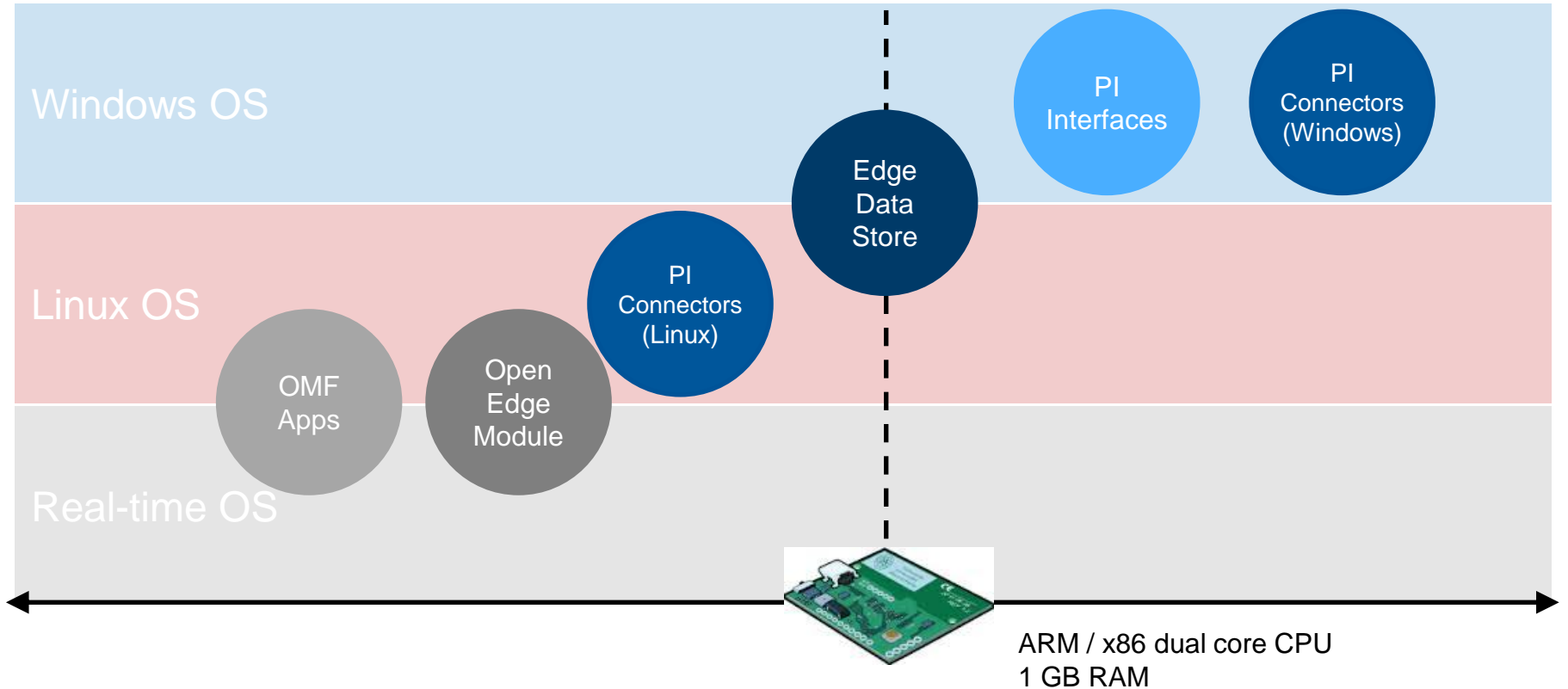
Edit Routing Configuration

Details

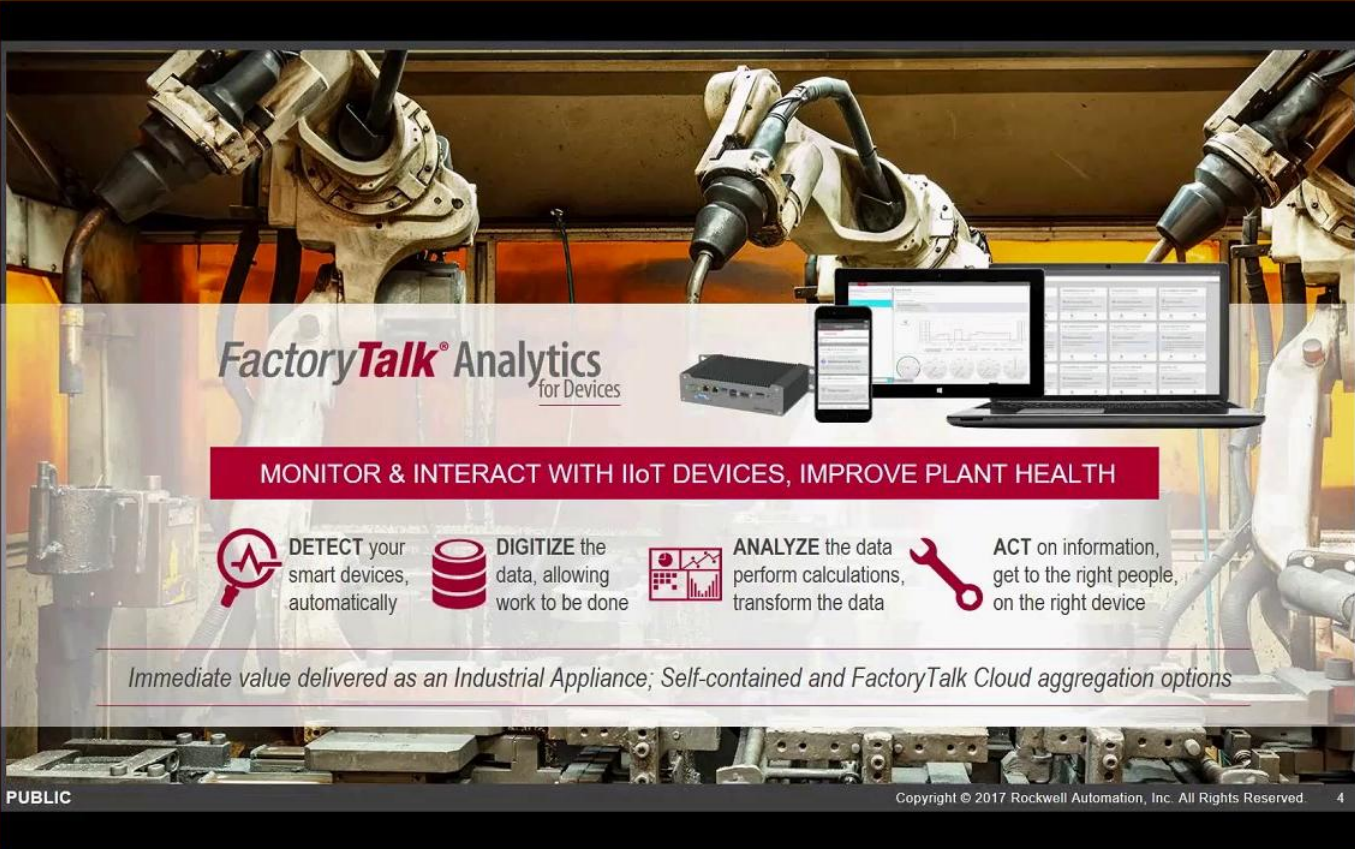
Flexibility to Chose the Right Destination for the Scenario



PDC Technologies: Hardware & Operating System Targets







Edge Analytics Appliance Using Embedded OSIsoft Technology



FactoryTalk[®] Analytics
for Devices

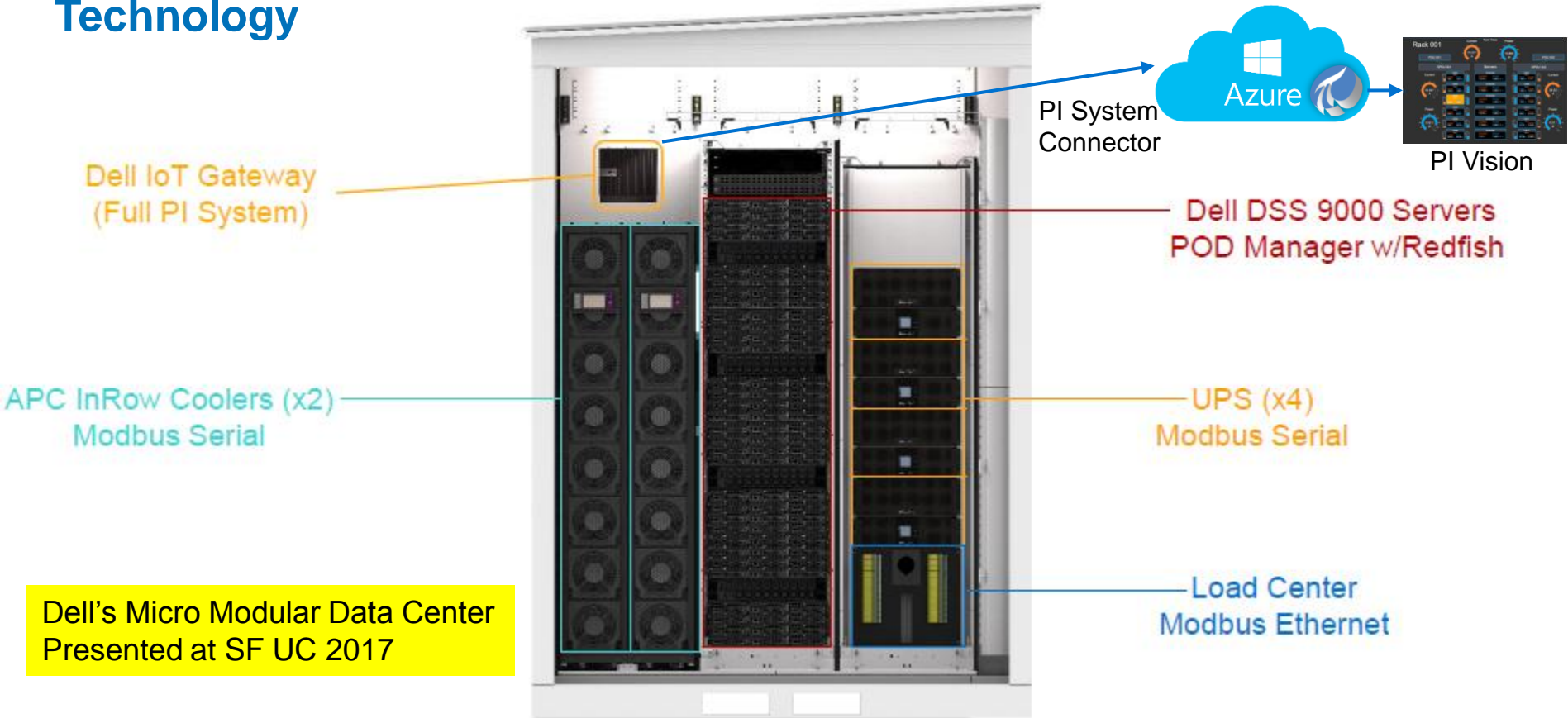
MONITOR & INTERACT WITH IIoT DEVICES, IMPROVE PLANT HEALTH

-  **DETECT** your smart devices, automatically
-  **DIGITIZE** the data, allowing work to be done
-  **ANALYZE** the data, perform calculations, transform the data
-  **ACT** on information, get to the right people, on the right device

Immediate value delivered as an Industrial Appliance; Self-contained and FactoryTalk Cloud aggregation options

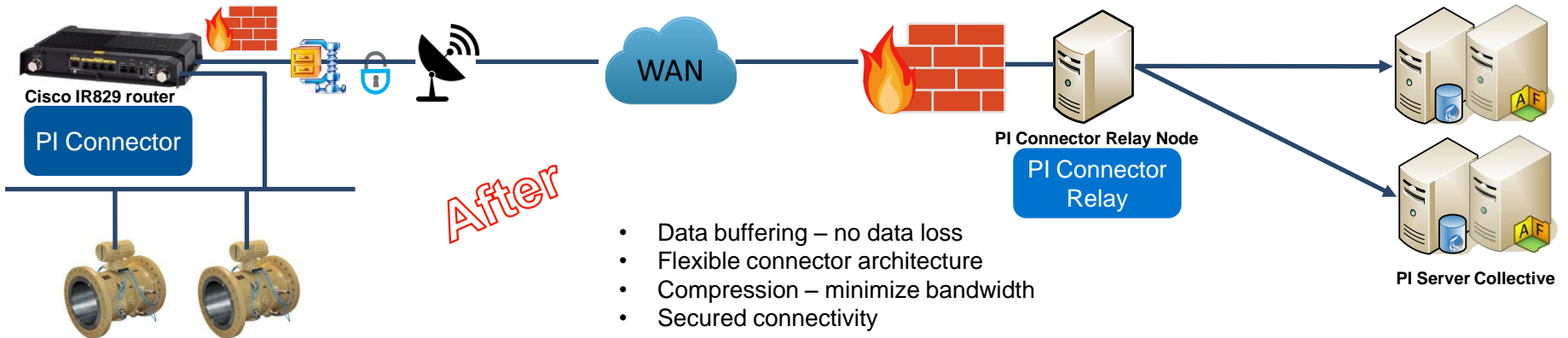
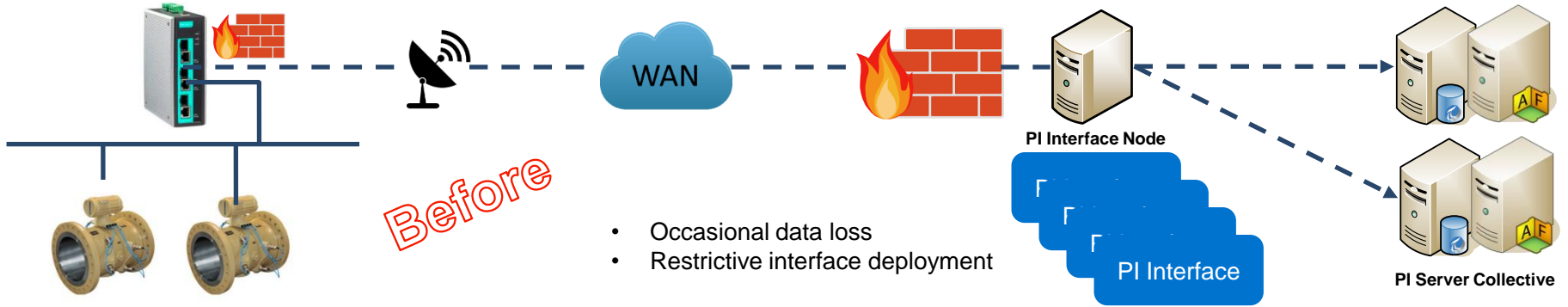
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Micro Modular Data Center Monitoring Using Embedded OSisoft Technology



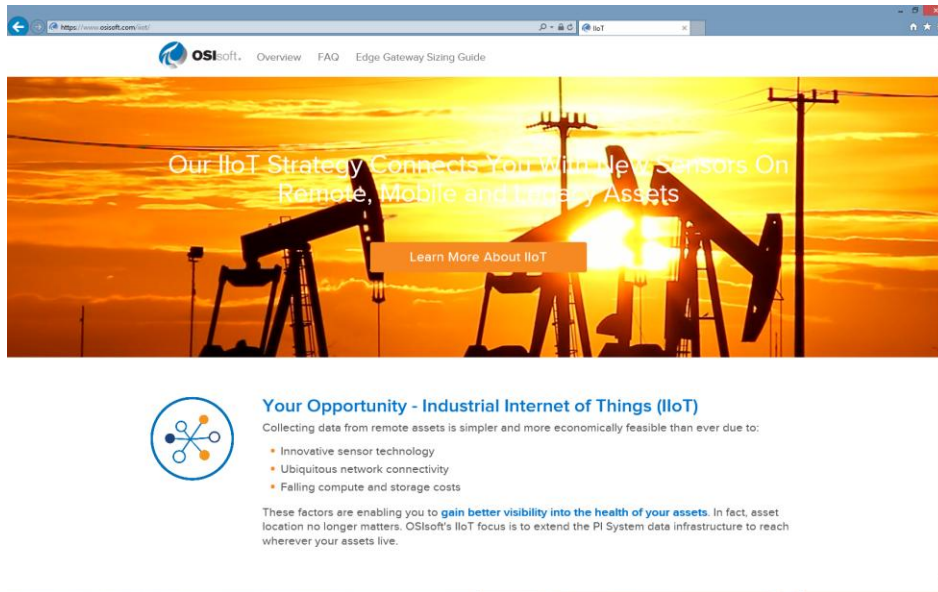
Dell's Micro Modular Data Center Presented at SF UC 2017

Remote Asset Monitoring Using Embedded OSisoft Technology



Collaterals

- IloT Microsite: www.osisoft.com/iioT/



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감사합니다

谢谢

Danke

Merci

Gracias

Thank You

ありがとう

Спасибо

Obrigado