

Q&A: Pervasive Data Collection at the Edge

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Agenda

Introduction

Edge Data Store

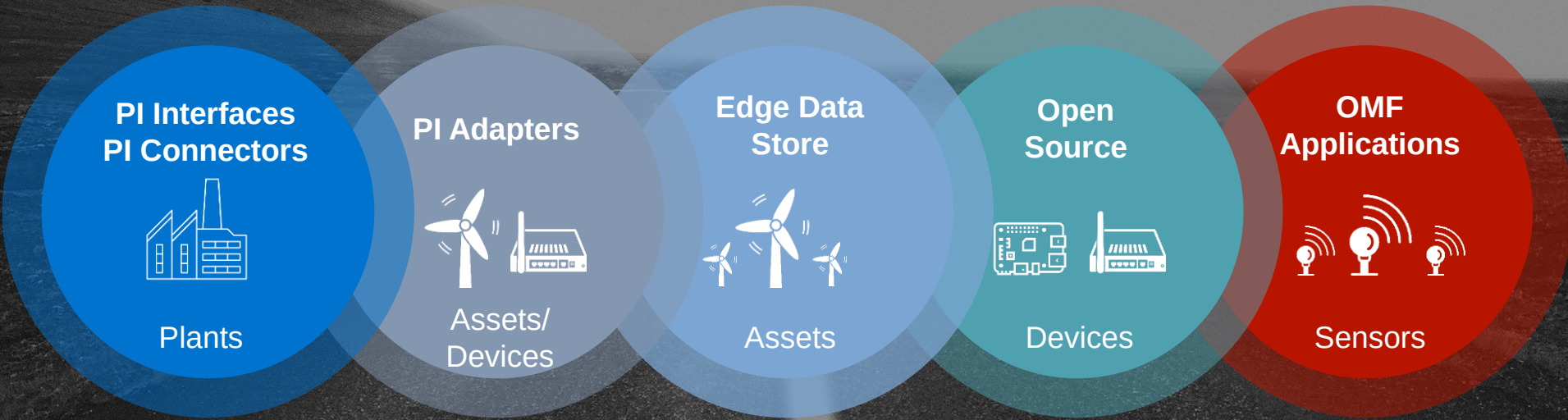
Q&A

PI Adapters

Q&A

Conclusion

Pervasive Data Collection



EDS Capabilities (initial release)

Storage

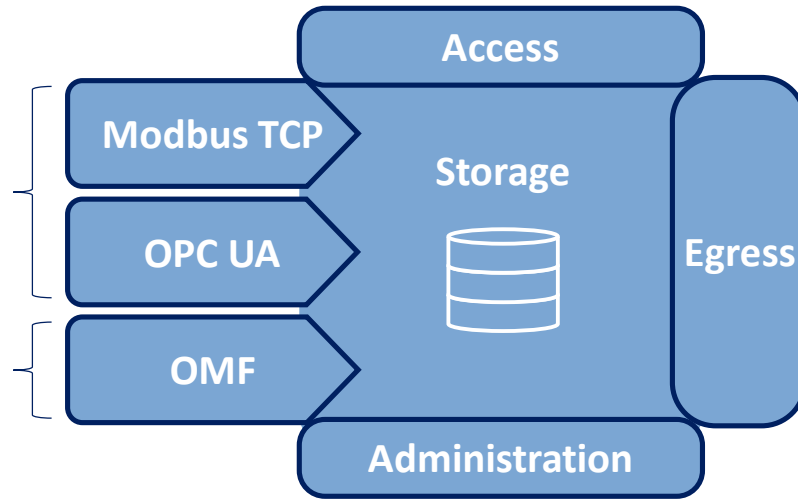
- Inbound data persisted in data store
- Configurable data stream limits

Access

- Read / write access via EDS API

Inbound Data

- Standard connectivity
- Custom connectivity



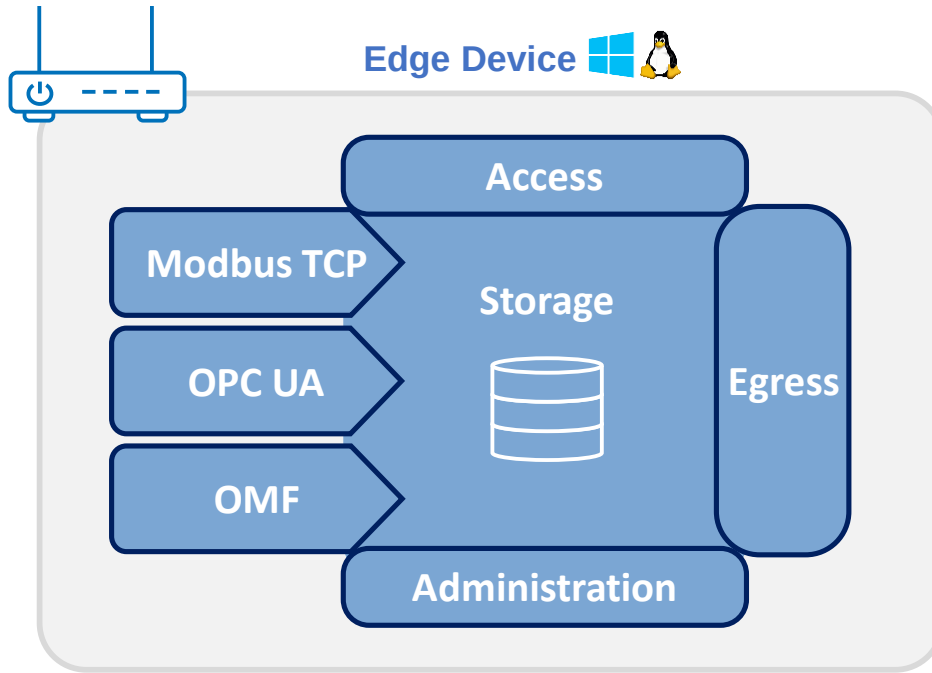
Egress

- Data transfer to PI Server and OCS
- Configurable data selection and transfer rates
- Data compression on transfer

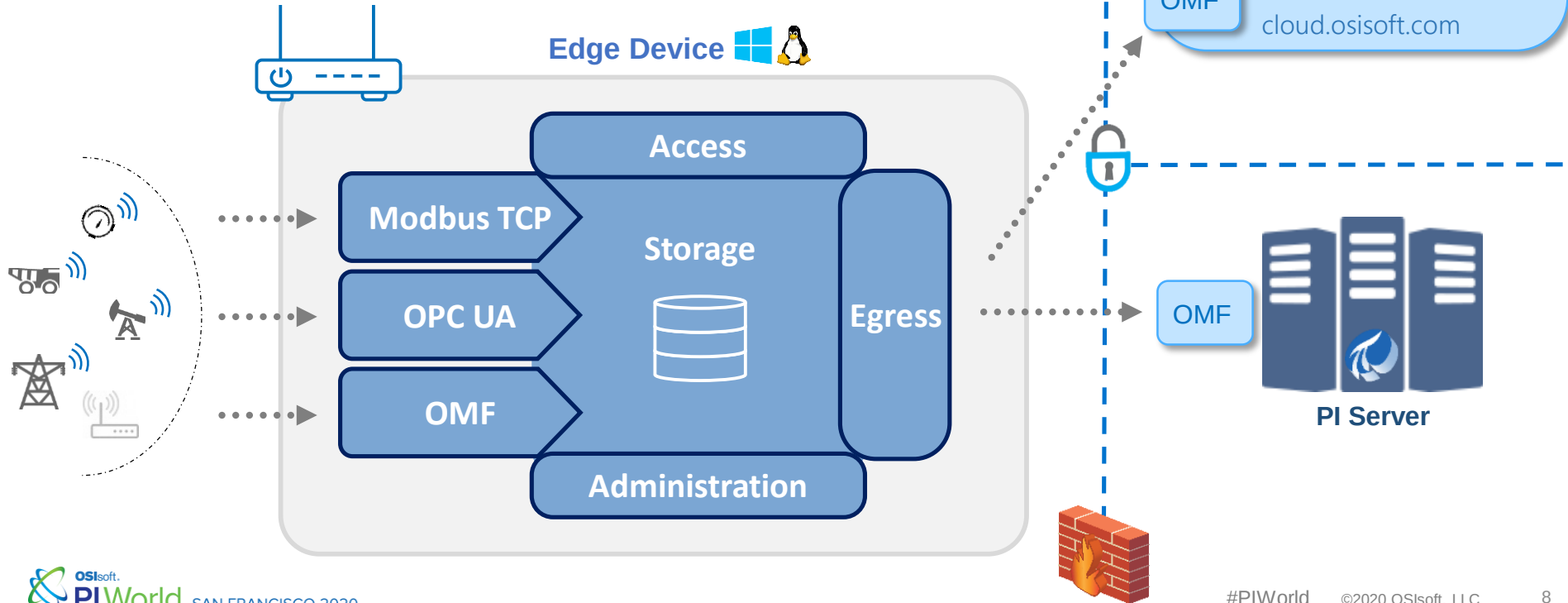
Administration

- Simplified management
- Scalable installation and configuration

EDS Hardware Compatibility



EDS Data Flow



EDS Application Development



Edge Device  



Analytics*

* = not included in product offering



Visualization*

* = not included in product offering



OMF App*

* = not included in product offering

Modbus TCP

OPC UA

OMF

Access

Storage



Egress

Administration



Q&A

PI Adapter Capabilities (initial release)

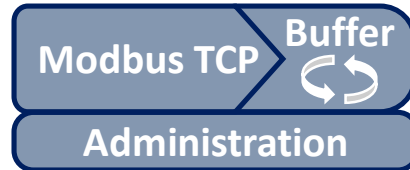
Available in
Lighthouse Program

Data Transfer

- PI Servers, OCS and EDS
- Data filters

Inbound Data

- Common industrial protocols



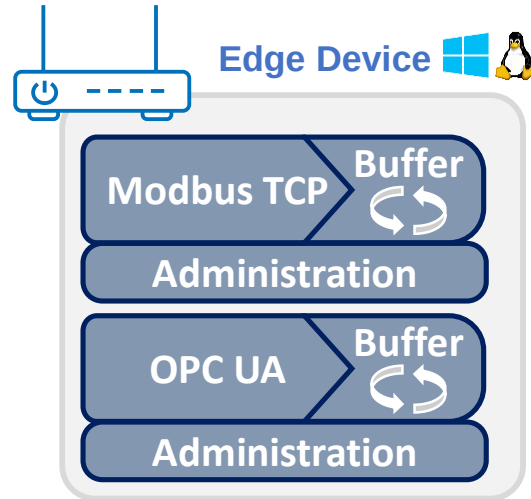
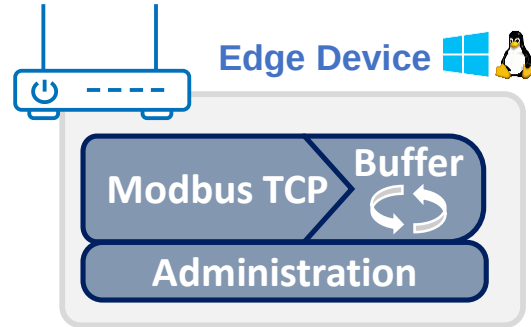
Buffering

- Overcome network and system disruptions

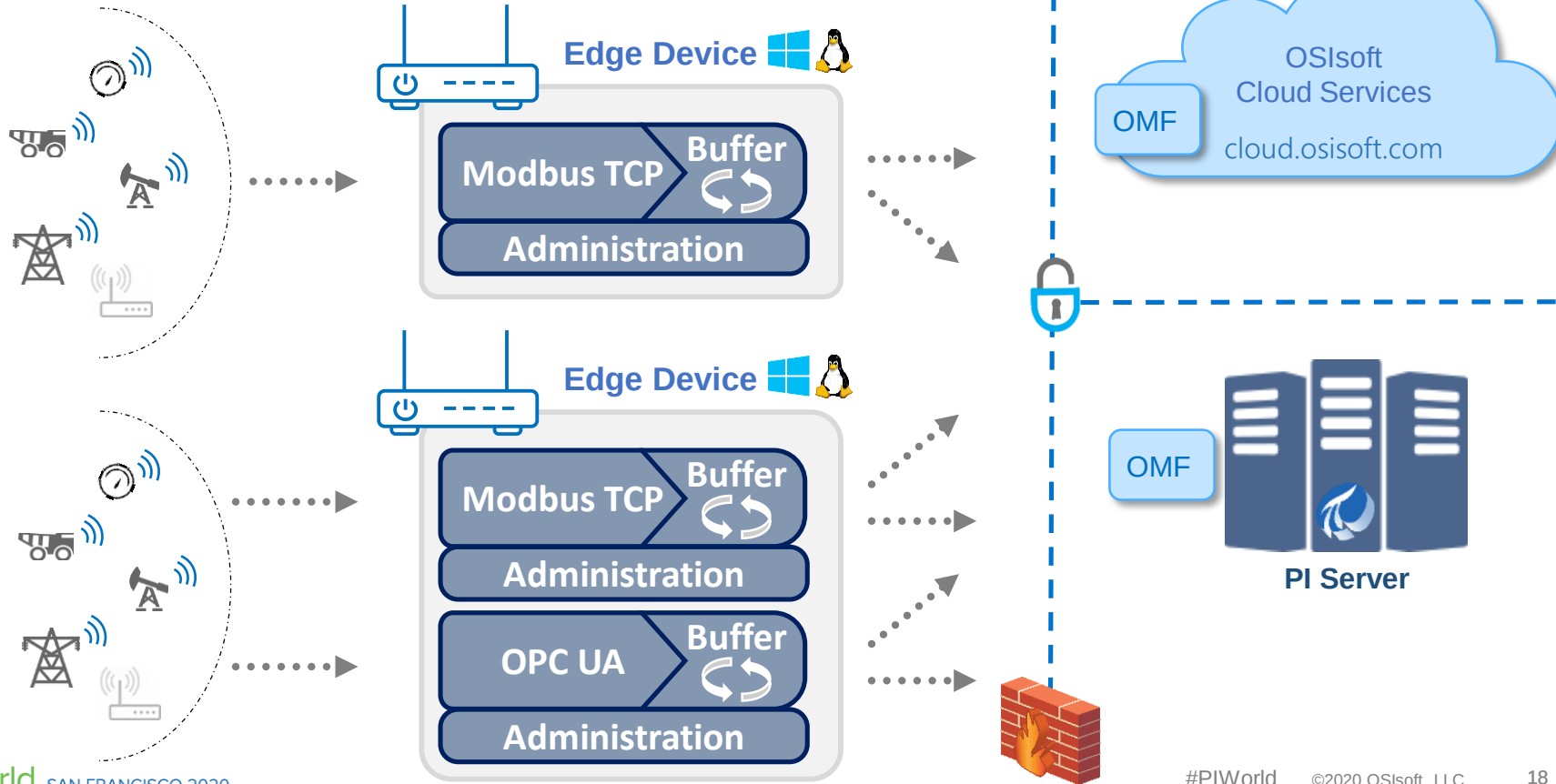
Administration

- Simplified management
- Scalable installation and configuration

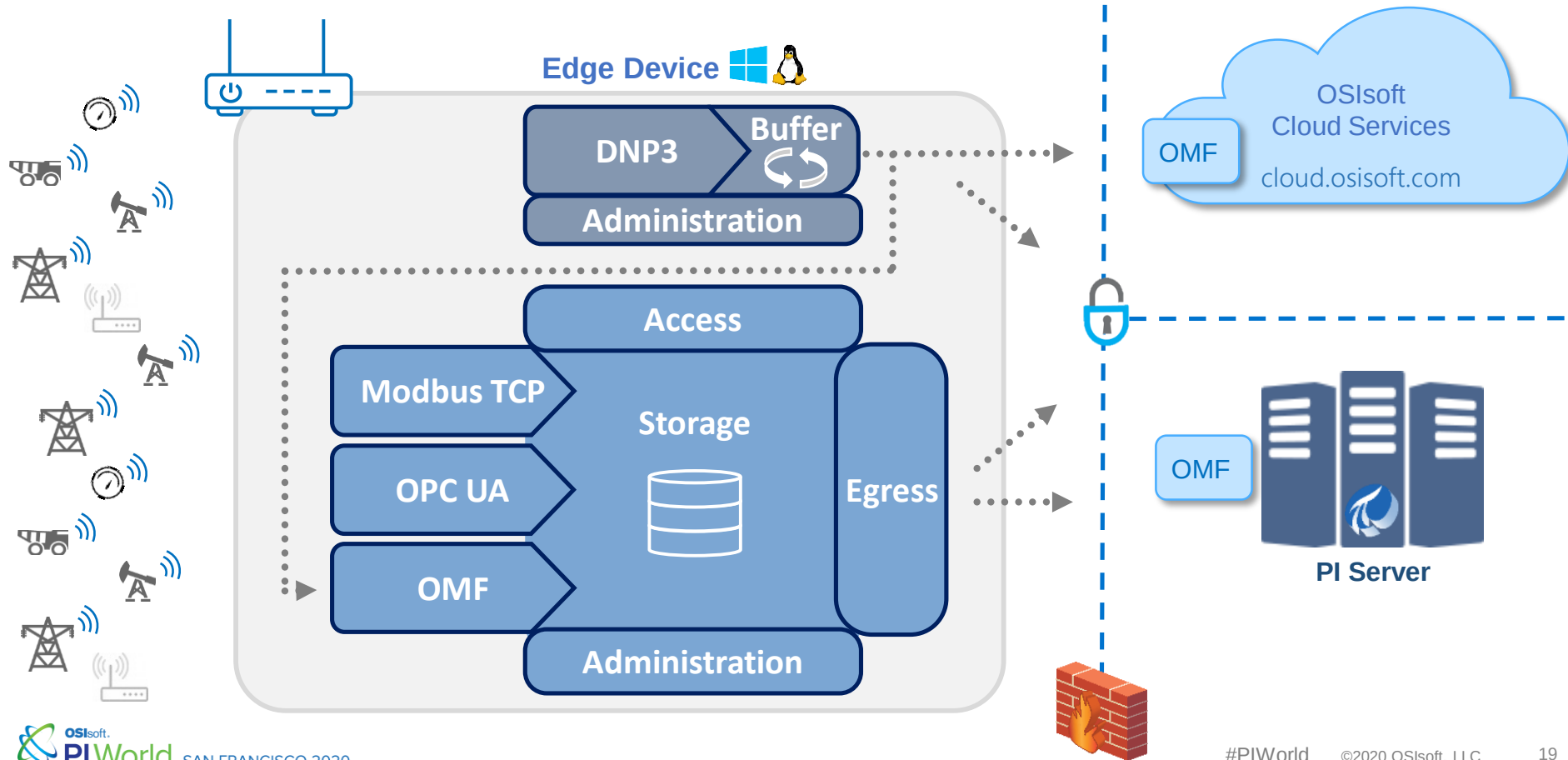
PI Adapter Hardware Compatibility



PI Adapter Data Flow



PI Adapter and EDS Data Flow



Q&A

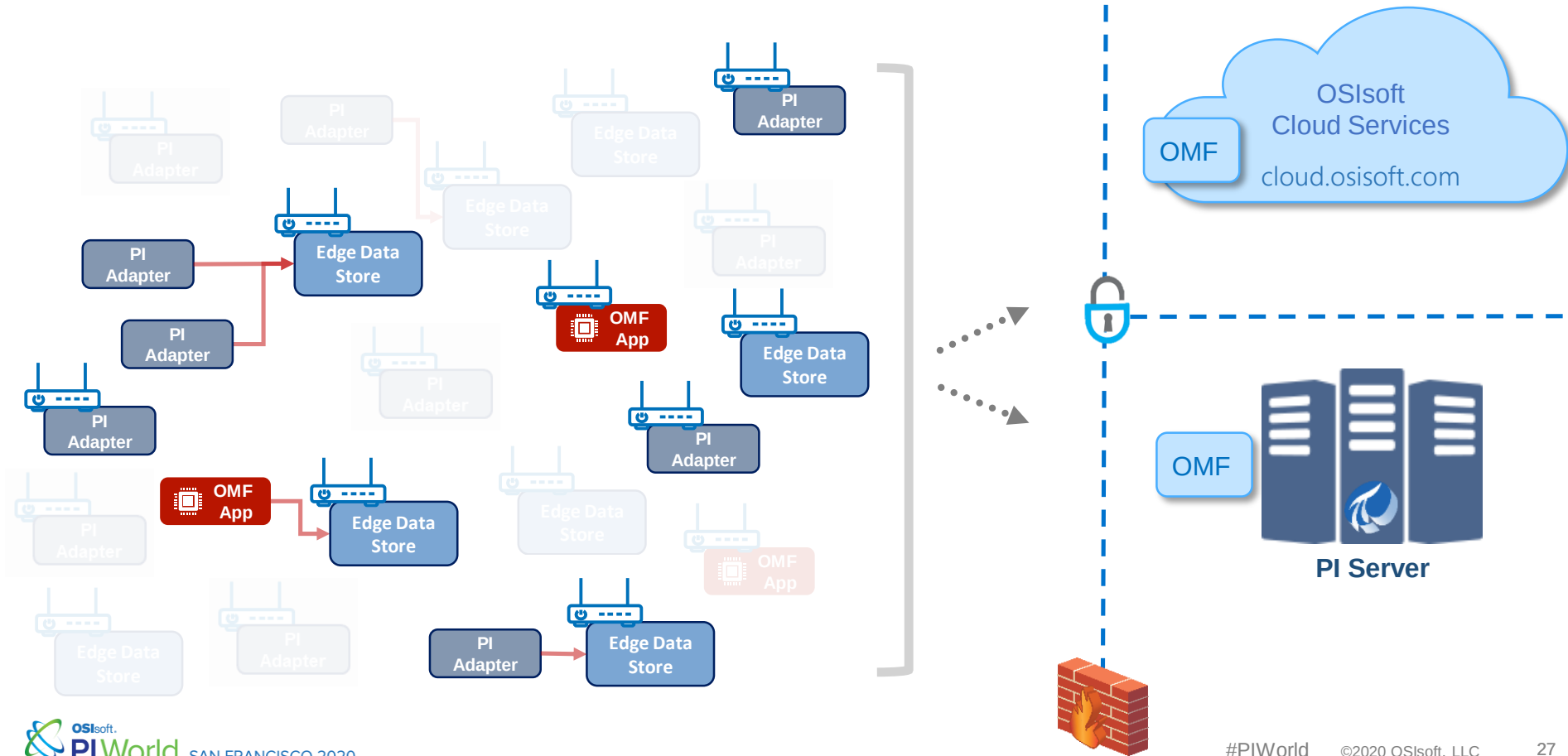
Resources: Product Documentation

- EDS User Guide
 - <https://osisoft.github.io/Edge-Data-Store-Docs/V1/>
- PI Adapter User Guides
 - Modbus TCP: <https://osisoft.github.io/OSIsoft-Adapter-Modbus-Docs/V1/>
 - OPC UA: <https://osisoft.github.io/OSIsoft-Adapter-OPC-UA-Docs/V1/>
 - BACnet: *Coming Soon!*
 - DNP3: *Coming Soon!*
- OMF v1.1 specification
 - <https://omf-docs.osisoft.com/>

Resources: PI World Presentations

- Presentations from PI World Online (Spring 2020)
 - *Pervasive Data Collection at the Edge* – a product session overview of OSIsoft's edge connectivity options: <https://gateway.on24.com/wcc/eh/2239398/lp/2256773/pervasive-data-collection-at-the-edge-%5Bosisoft%5D/>
 - *Data Collection for Critical Operations* – a product session overview of OSIsoft's on prem connectivity options: <https://gateway.on24.com/wcc/eh/2239398/lp/2253396/data-collection-for-critical-operations-%5Bosisoft%5D/>
- Presentations from PI World Online Developer's Conference (Spring 2020)
 - Edge Data Store: *Recording posted soon!* (<https://gateway.on24.com/wcc/gateway/eliteOsisoftLLC/2239398>)
 - Remote Deployments @ the Edge: *Recording posted soon!* (<https://gateway.on24.com/wcc/gateway/eliteOsisoftLLC/2239398>)
- Presentations from PI World Gothenburg 2019
 - *Pervasive Data Collection* – a product session overview of OSIsoft's on prem and edge connectivity options: <https://www.osisoft.com/presentations/pervasive-data-collection-1x/>
 - *Drilling Red Zone Detection a Journey from Edge to Cloud* – a partner showcase session that describes how EDS is used to improve oil drilling operations: <https://www.osisoft.com/presentations/drilling-rig-redzone-detection-a-journey-from-edge-to-cloud/>
- Presentations from PI World San Francisco 2019
 - *Edge Analytics with the PI System* – a developer session on analytics and visualization app development with EDS: <https://www.osisoft.com/Presentations/Edge-Analytics-with-the-PI-System--EDSx--OSIsoftx>

Options for Your IIoT / Edge Deployments



Communicate with OSIsoft Product Managers



<https://feedback.osisoft.com>

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If it is not shared on the feedback portal, it didn't happen!

Presenters



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