

AVEVA PI WORLD

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# Swiss army knife for connecting to OSI Edge and OSI Core

Secure Industrial IoT Redefined

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**AVEVA**



## About Skkynet

### Critical infrastructure for over 23 years

- 20,000+ installations in 86 countries
- Used by 10 of 10 top automation providers worldwide
- Certified AVEVA technology partner with many case studies available at [skkynet.com](http://skkynet.com)
- Many OEM relationships with both hardware and software providers
- Covering energy, discreet manufacturing, water/waste-water, building automation, oil & gas, minerals & mining

# Securely connect to OSI Core

## Challenge

Provide network isolation between the local control network, while still providing remote monitoring and control

## Solution

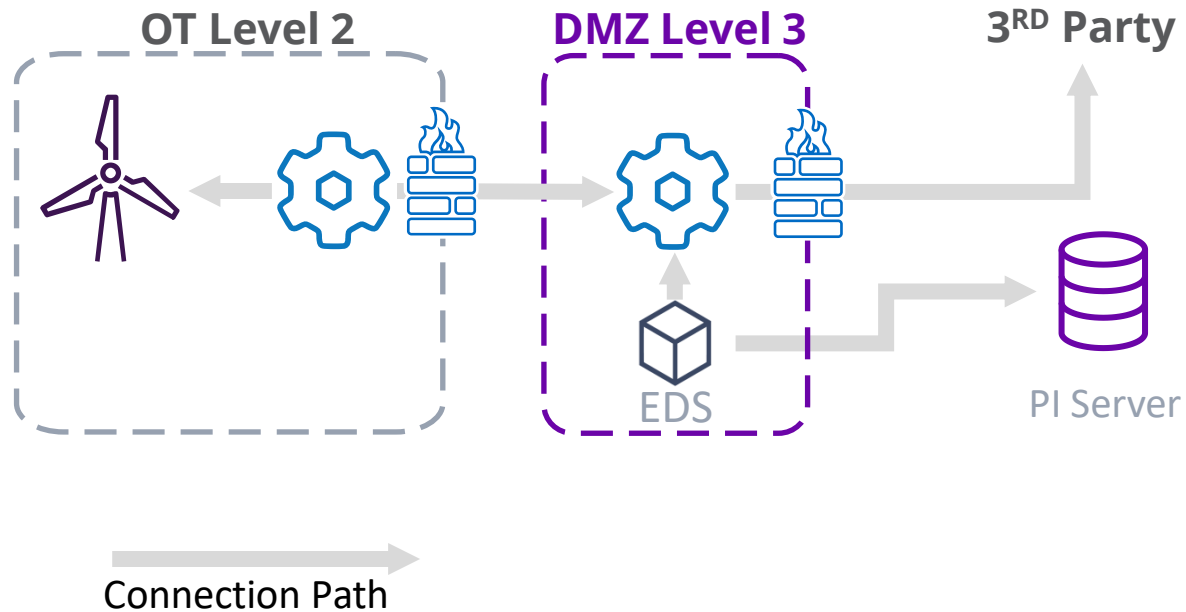
DataHub<sup>®</sup> deployed at each location within a local DMZ environment

## Benefits

Each connecting client does not have access to the control network, yet can securely access the data

# Challenges this project tackled

Isolating the control network & providing 3<sup>rd</sup> party access



- Most solutions require an open inbound firewall port or internet access in the control network to access real-time data.
  - Both are insecure in today's climate
- Needed to provide multiple access to the data securely
  - Some with supervisory control
  - Some without
- Implementing a DMZ, isolates the control network from all connecting clients
  - EDS enables the PI Core connection
  - Datahub provides 3<sup>rd</sup> party access for control

# Securely connect to OSI Edge

## Challenge

Connect many bioreactors to OSI Edge, where the bioreactors only support OPC DA (Classic)

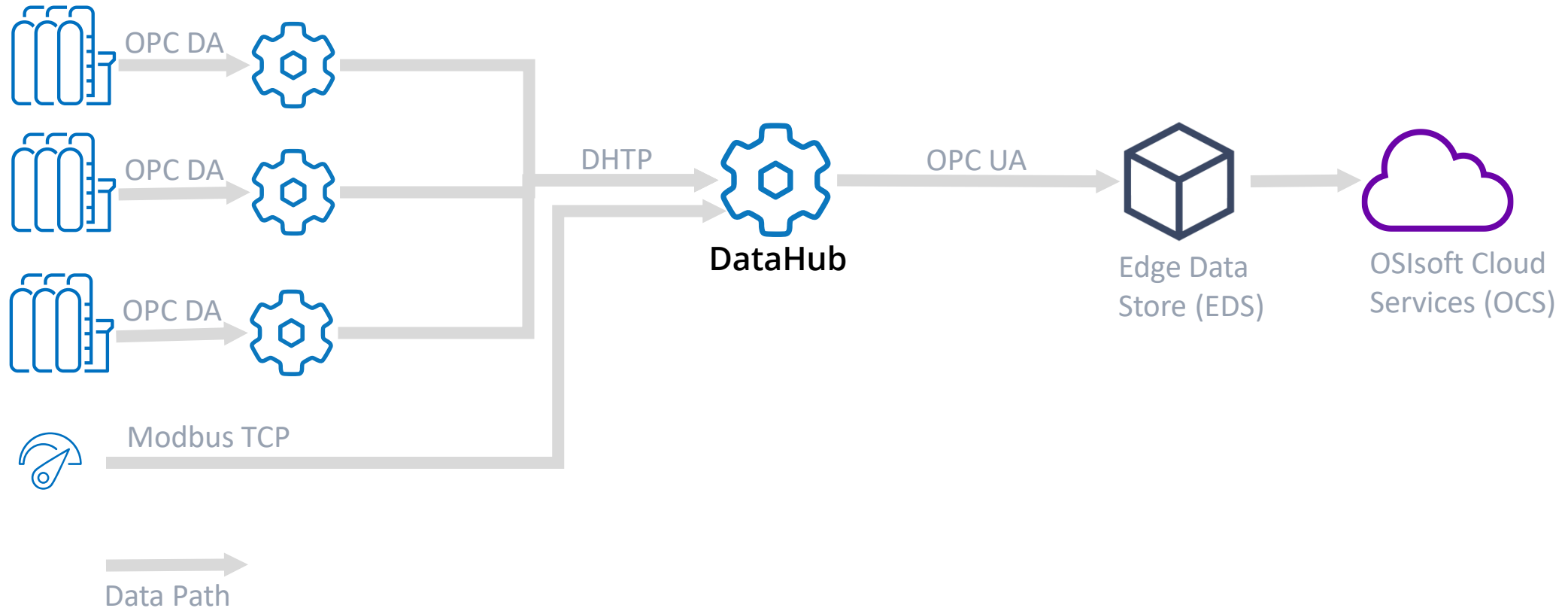
## Solution

DataHub<sup>®</sup> DA Tunnellers implemented at each reactor and one DataHub aggregator for OSI Edge to connect using OPC UA

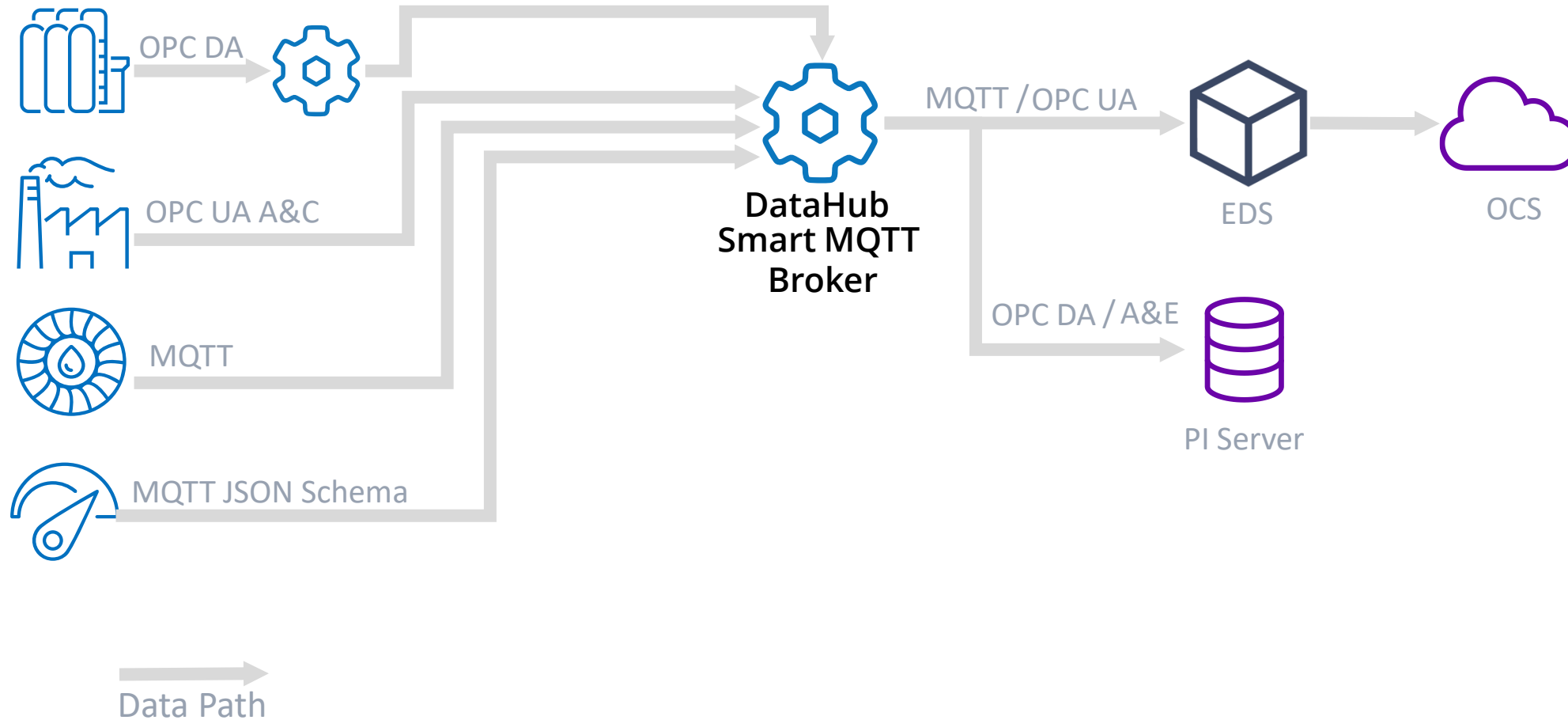
## Benefits

By using tunnelling, client eliminated DCOM, firewall and time-out issues;  
All data is aggregated to OSI Edge using the built-in OPC UA client;  
OSI Edge then publishes the data to OSI Cloud

# DataHub installation



# Typical DataHub installation use cases for OSI





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“I call the DataHub the Canadian Swiss army knife;  
we are able to accomplish a host of required  
functions with a single product solution”

Project Manager – US Wind Energy company

THANK YOU

謝謝

DZIĘKUJĘ CI

NGIYABONGA

TEŞEKKÜR EDERİM

DANKIE

TERIMA KASIH

GRACIES

WHAKAWHETAI KOE

DANKON

TANK

TAPADH LEAT

SALAMAT

SPASIBO

GRAZIE

MATUR NUWUN

ХВАЛА ВАМ

MULŢUMESC

PAKMET CIZGE

고맙습니다

GRAZIE

شكرا

FAAFETAI

ESKERRIK ASKO

GO RAIBH MAITH AGAT

HVALA

HVALA

БЛАГОДАРЯ

GRACIAS

MAHADSANID

TI БЛАГОДАРАМ

TEŞEKKÜR EDERİM

TAK DANKE

DANKJE

EΥΧΑΡΙΣΤΩ

GRATIAS TIBI

IKURKUN

OBRIGADO

RAHMAT

MERCI

GRAZZI

PAKKA PÉR

MAHALO IĀ 'ŌE

TAKK SKALDU HA

MERCI

DI OU MÈSI

HATUR NUHUN

PAXMAT CAĠA

FALEMINDERIT

ありがとうございました

ĐAKUJEM

SIPAS JI WERE

TERIMA KASIH

UA TSAUG RAU KOJ

TI БЛАГОДАРАМ


СИПОС


CẢM ƠN BẠN

WAZVIITA

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