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Streamline Data Flow Enablement – Your Data, Our Expertise

Cognizant – TQS Integration

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About Cognizant – TQS Integration

TQS Integration

- Unrivalled knowledge of PI product suite, existing & new products
- Sound understanding of Predicate Rules (GCP, GLP and GMP) to implement in processes
- Global Data driven solutions company
- Premier Global Partner for AVEVA PI
- Global EA Partner with AVEVA
- Acquired by Cognizant in July 2021

Cognizant

- Helps modernise technology, reimagine processes and transform
- Our consultative approach helps clients envision, build and run innovative and efficient businesses
- Headquartered in the US, Cognizant is ranked 185 on the Fortune 500



TQS Integration



Your Data Journey

What data do I need?

Collection & Contextualisation

Who are the users?

Availability & Visualisation

What is the destination?

Applications & Cloud

What are the next steps?

Data Analytics & Data Modelling



Where do I

start?

It's better to look at data than to look for data

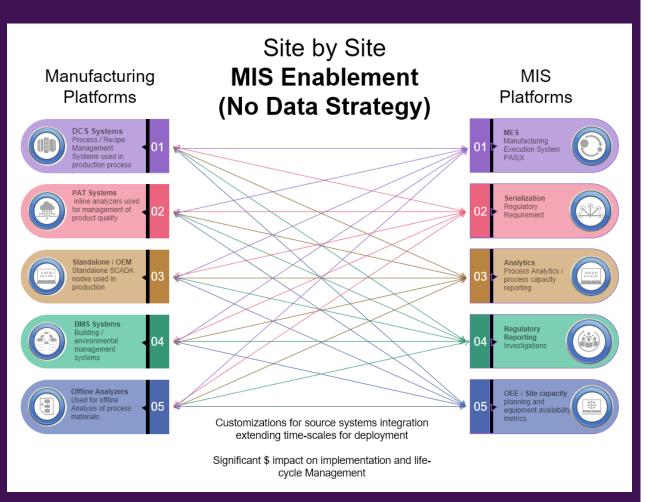


TQS Integration

Challenge	Solution	Benefits
Many different data sources	Understand the requirements	Right first time and set the
Many different data	 Data Readiness Study 	program up for success
requirements	Source systems	Standardized approach to
Many different end points	Connectivity	data integration
Many different end users	Data types	Data has context
•	Know the data you require	Structured, accessible data,
Many different use cases	Standardized	for all users
Where is the starting point?	Contextualized	
	Structured	

Cognizant TQS Integration & AVEVA - Best in Class

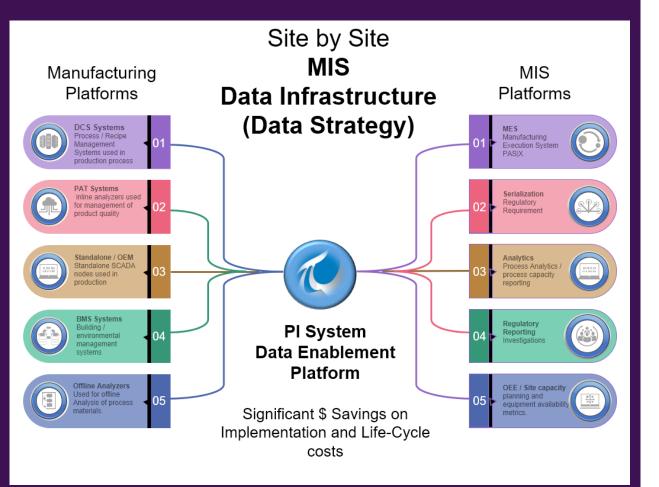




Challenge

Too many end points/unstructured data....

- Minimal standards identified for manufacturing systems
- Minimal standardization across manufacturing sites
- Minimal data-sets available from systems
- Minimal recipe based manufacturing management
- Minimal standards identified for manufacturing system
- Minimal real-time data acquisition
- No data contextualization strategy



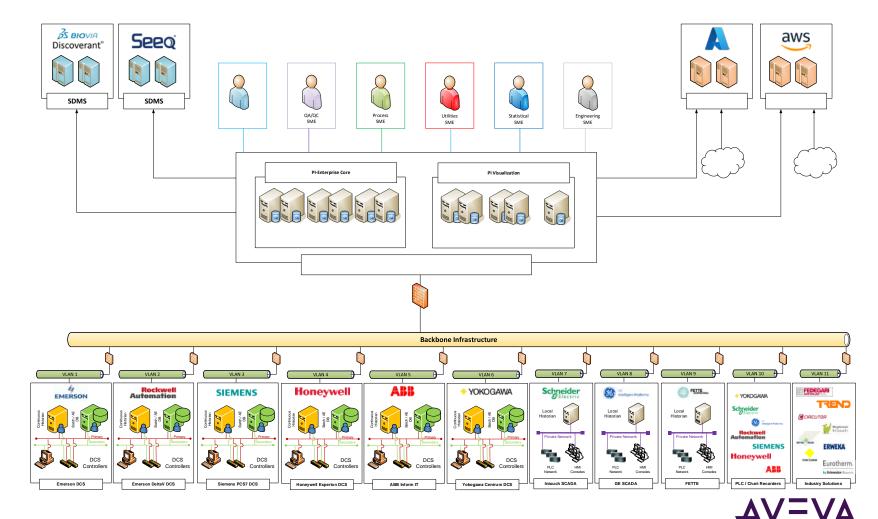
Solution

Structured data access, one source of truth....

- Understand the requirements
- Data Readiness Study
- Source systems
- Connectivity
- Data types
- Know the data you require
- Standardized
- Contextualized
- Structured

Data Readiness Study

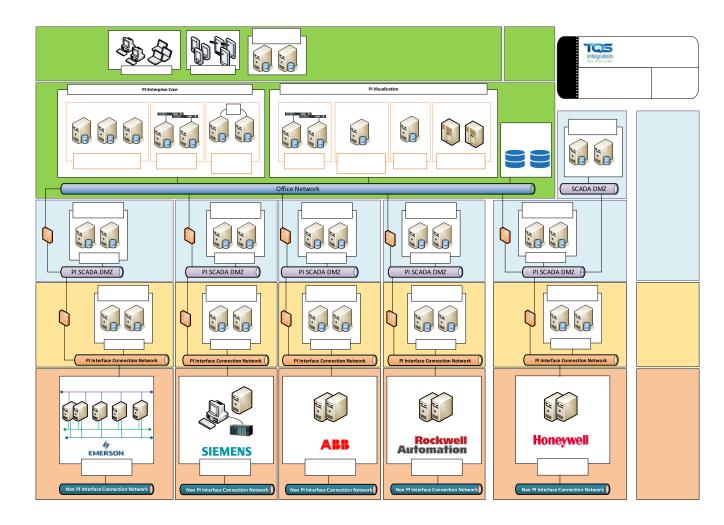
- What is it?
- What format does it follow?
- What are the goals?
- What are the outcomes?



What is a Data Readiness Study

Detailed analysis of:

- Equipment
 - PCS, DCS, Standalone Equipment etc.
- Connectivity
 - Protocols, Interfaces; OPC, RDBMS, UFL
- Network architecture
 - Evaluation of current infrastructure, Automation / IT
- Data availability
 - Data acquisition requirements
- Data security
- Reporting requirements



What is the format of a Data Readiness Study

Review and Evaluate

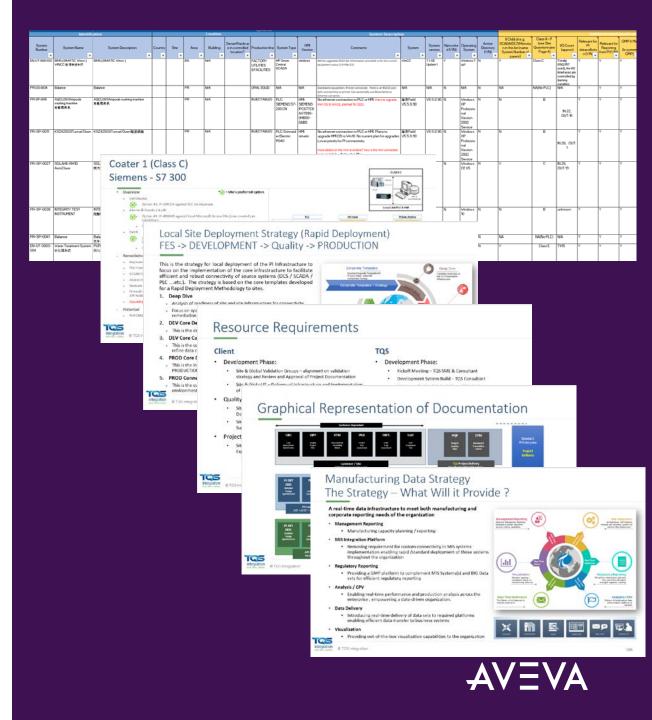
- Remote or On-Site
- Multi-day workshop
- Meet with all stakeholders
 - Automation Engineering
 - Process Engineering
 - IT
 - Quality
 - End users / Business
- Develop detailed systems list
- Review network architecture
- Review site initiatives
- Propose and review documentation / validation approach

Recommendations

- Data standardization
- Batch Context / Event Frame configuration
- Historical data migration options
- Security implementation
- Networking & system architecture
- Validation approach overview
- Training requirements

What are the outcomes of a Data Readiness Study

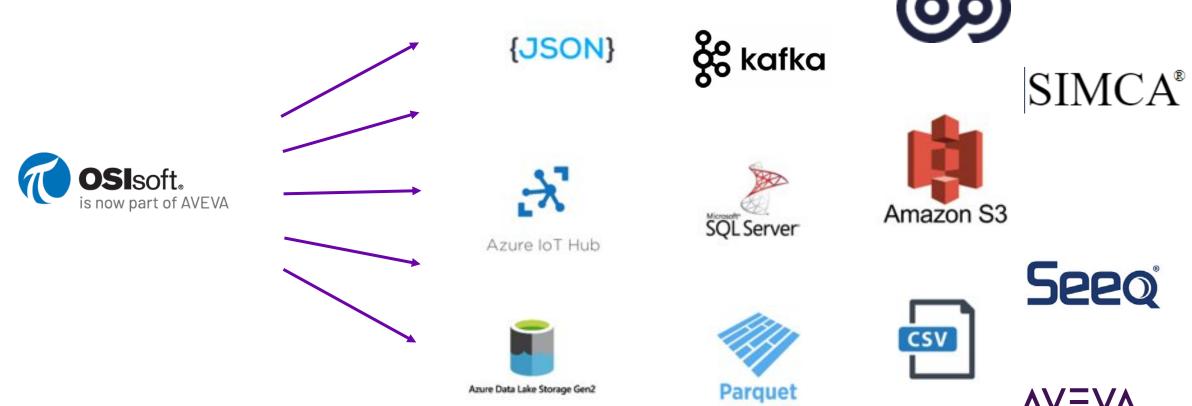
- Detailed systems list
- Data Readiness Study Report
- PI System architecture diagram
- Roll-out / Integration plan
- Validation / Documentation strategy
- Cost impacts
- Resource requirements



Getting your data to the right people

Know your data, know your end users....

- Not all end users require the same data
- High level and cloud applications also have differing data requirements



The right Data at the Right Time in the Right Place

Case Studies on Data Starved and Data Readiness Study



Data Starved Case Study



Data Readiness Case Study



"You are better looking at your data than looking for your data......"

TQS Integration







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ABOUT AVEVA

AVEVA is a global leader in industrial software, driving digital transformation and sustainability. By connecting the power of information and artificial intelligence with human insight, AVEVA enables teams to use their data to unlock new value. We call this Performance Intelligence. AVEVA's comprehensive portfolio enables more than 20,000 industrial enterprises to engineer smarter, operate better and drive sustainable efficiency. AVEVA supports customers through a trusted ecosystem that includes 5,500 partners and 5,700 certified developers around the world. The company is headquartered in Cambridge, UK, with over 6,500 employees and 90 offices in over 40 countries.

Learn more at <u>www.aveva.com</u>