

Learn how Microsoft enables Telemetry for ERP, S/4HANA & SAP SaaS on Azure

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Session ID #83791

Key Outcomes/Objectives

- Understand how the 'SAP at Microsoft' internal implementation leverages Telemetry and Monitoring across SAP on Azure
- 2. Learn best practices implementing SAP Telemetry and Monitoring on Azure
- 3. Maximize your SAP on Azure Telemetry investment for the future



Agenda

- 'SAP at Microsoft' introduction
- Key challenges we needed to solve
- How we did it with enterprise Telemetry
- Telemetry and Monitoring of the Future



SAP at Microsoft





PI/XI NW 7.3 Process Integration

DUET Enterprise 2.0

BSI Tax Factory

Tidal Enterprise Scheduler

Esker Faxing

RealTech

Others



Master Data Gov:

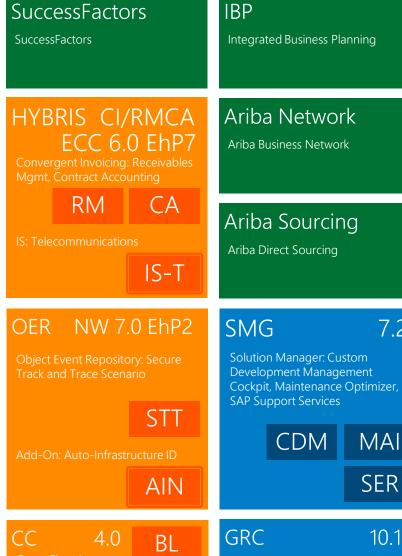
Business Partners

BP



BPC 11.1 on HANA

Concur

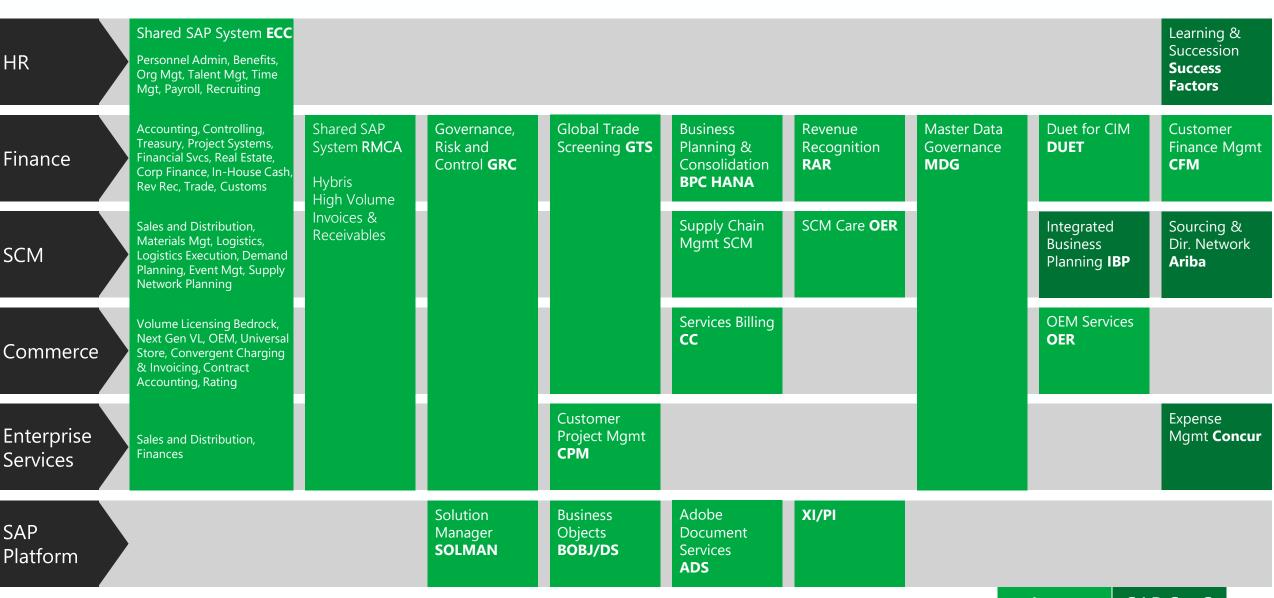


Governance.

Risk & Compliance

GRC

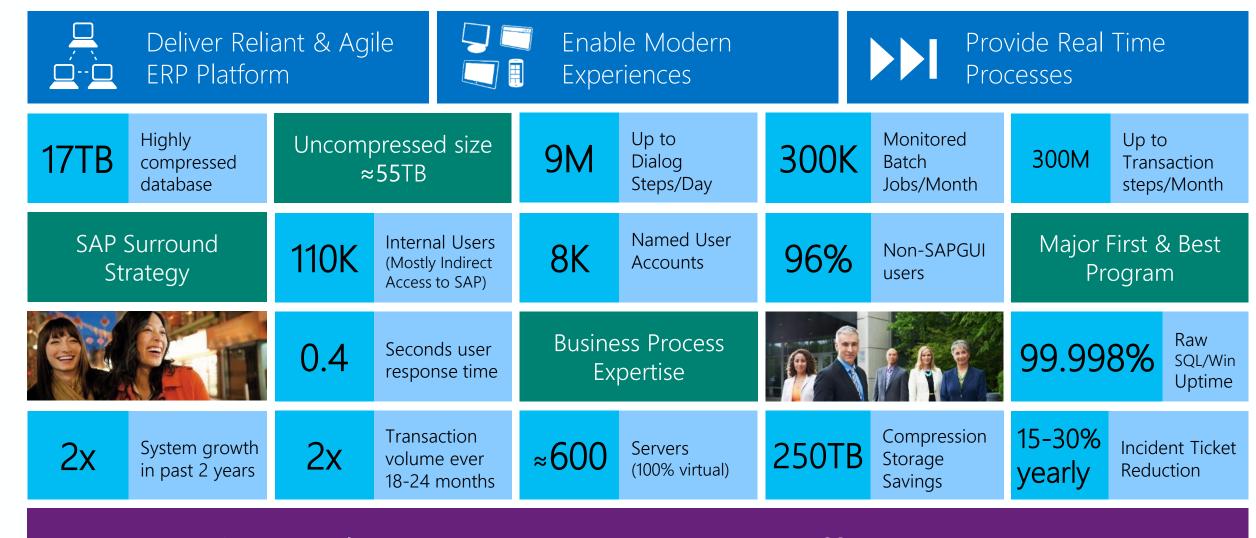
SAP Applications at Microsoft – Business View



Azure

SAP SaaS

SAP ERP by the Numbers



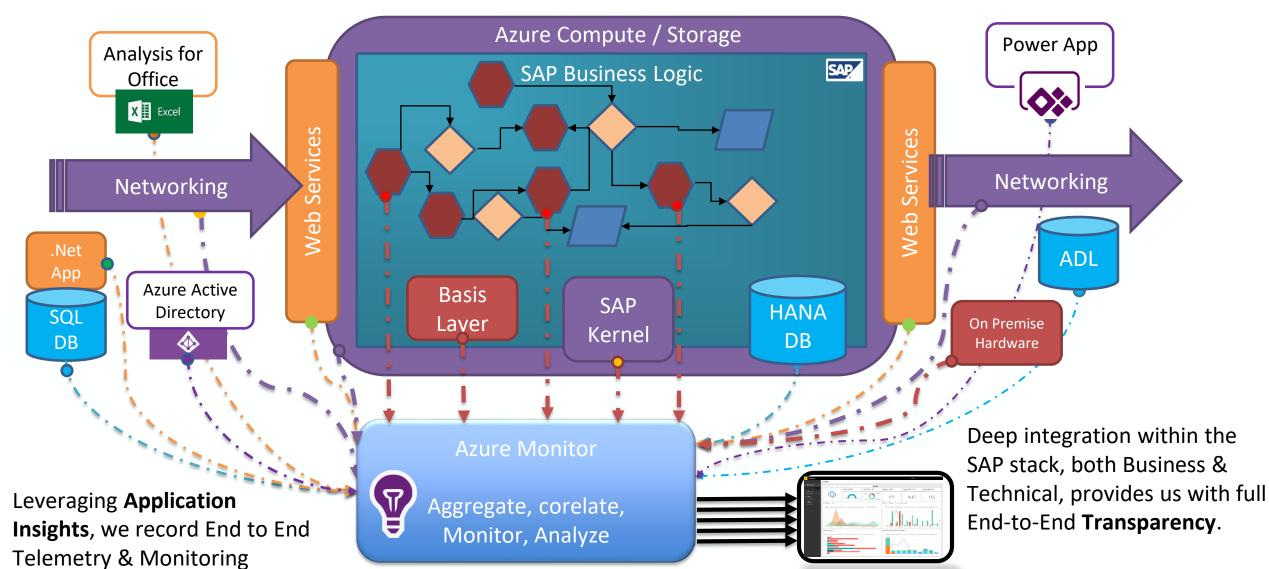
High Quality Enterprise Service Offerings via SAP

Key challenges we needed to solve

- A lack of understanding of SAP considered a 'black box' at Microsoft
- Talk the same language when measuring End to End Business Process health
- Modernize our SAP Telemetry & Monitoring



Evolving SAP on Azure – Telemetry & Monitoring



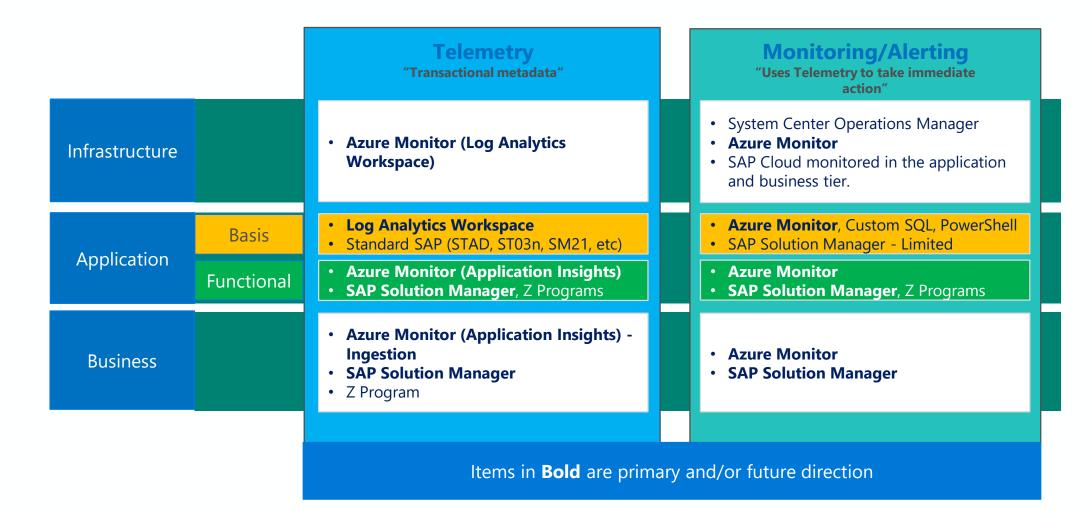
events at all levels of the Azure

stack.

PowerBI dashboards are built on top of AI data, offering true E2E KPI reporting and analysis.



SAP Telemetry and Monitoring Approach



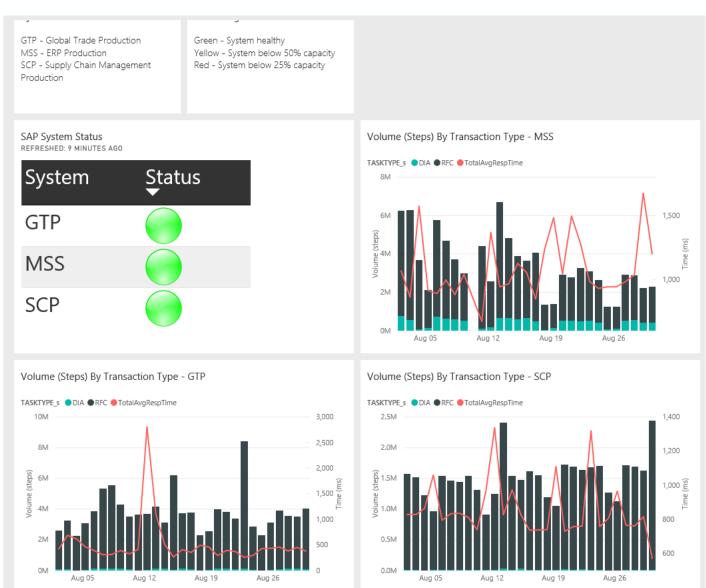


SAP Platform System Health Dashboard (PowerBI)

Simple Platform health checks

Also shows system load trends by work load type

Early MVP





Azure Monitor Logs for HANA

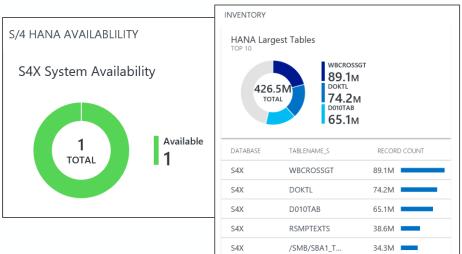
Current State

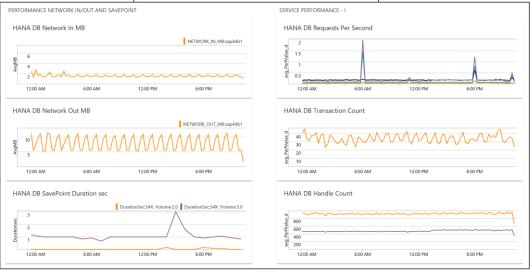
Allows combining different types of telemetry/events into a single location

Visibility across different HANA instances and technologies

Future Ideas

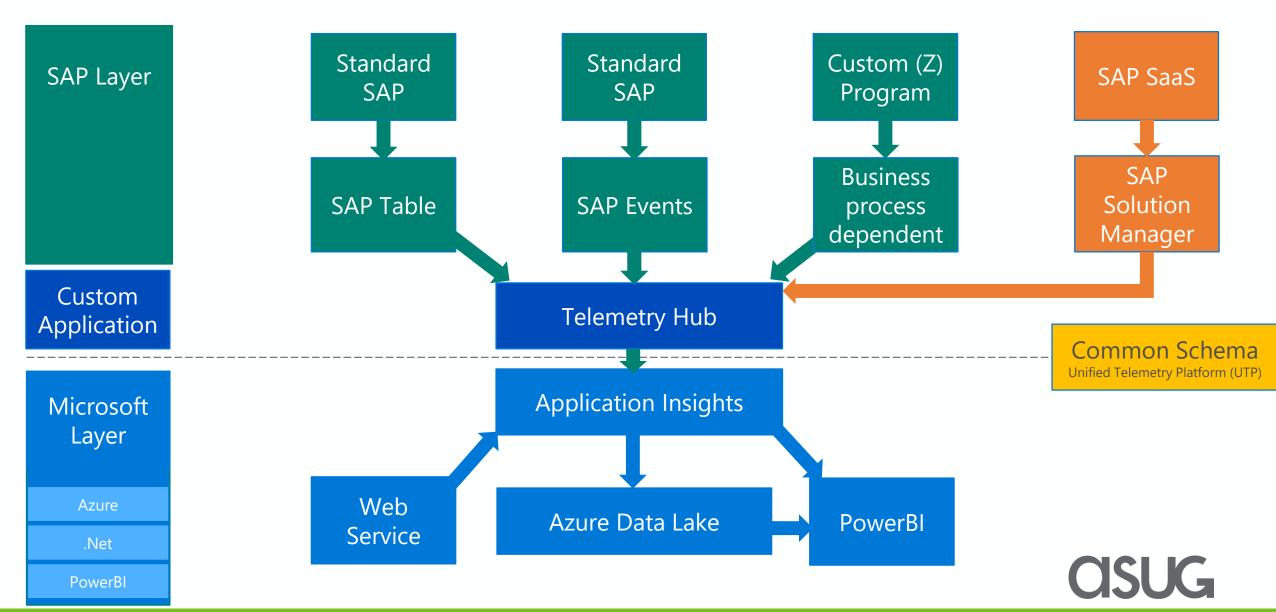
Ability to leverage machine learning for deeper insights into your HANA platform and SAP Systems



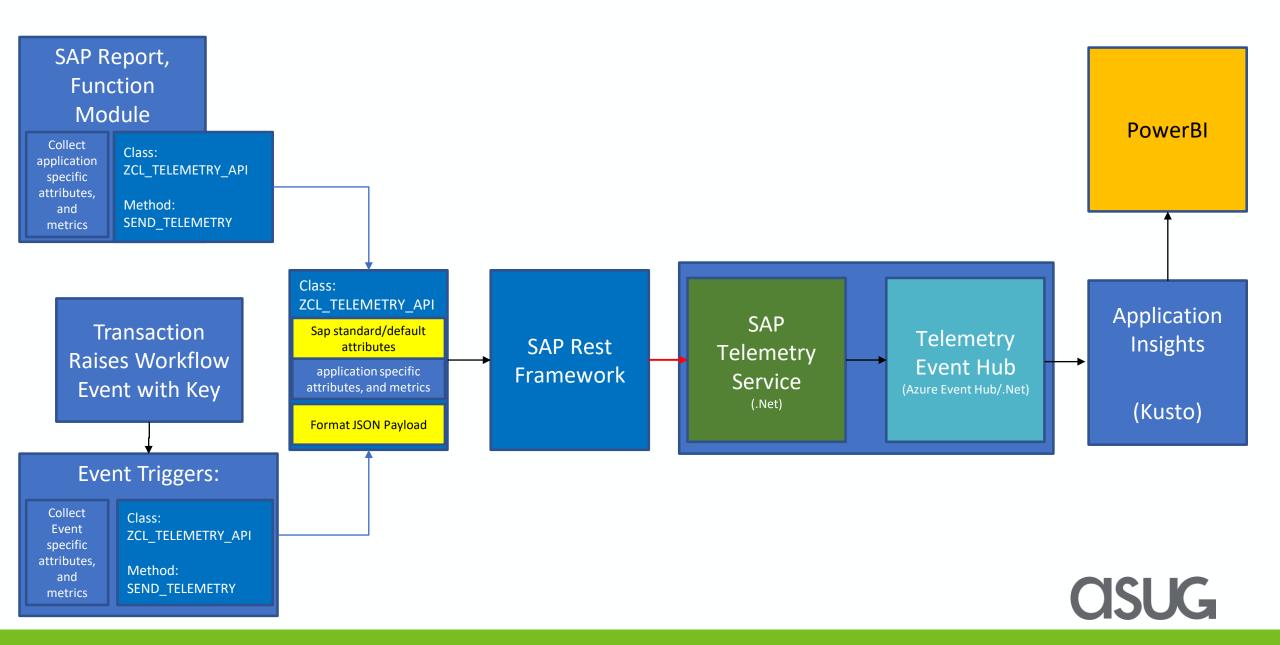




Using Application Insights for SAP Telemetry



The Microsoft SAP Telemetry Pipeline

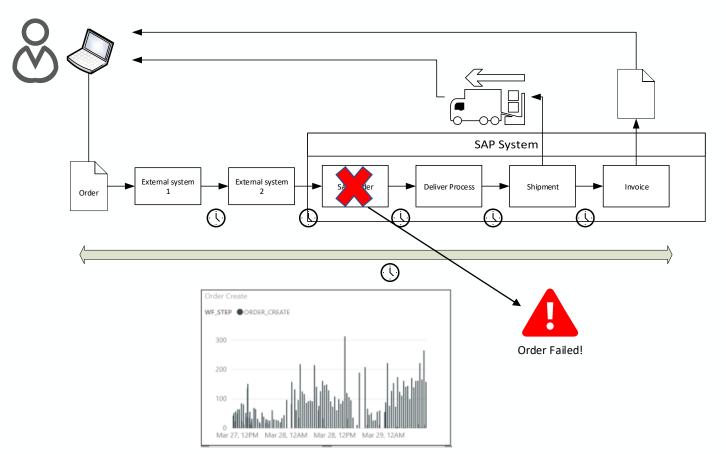


Enabling Enterprise Business Process Telemetry

What is Business Process Telemetry?

Business Process Telemetry captures the critical events of a business transaction as it flows across the application landscape.

Why enable Business Process Telemetry? Automated Measurements, Statistics, Alerting and Monitoring





Orders Outside of SLA

Total

IDOC_CREATE_HOUR ▼	Bill_Outside_SL/
3/29/2019 12:00:00 AM	
3/28/2019 11:00:00 PM	
3/28/2019 10:00:00 PM	
3/28/2019 6:00:00 PM	
3/28/2019 5:00:00 PM	

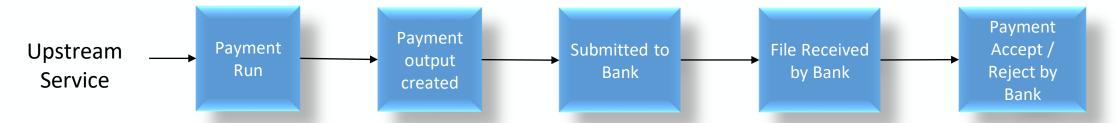


Key Personas

Role	What I Need	Value I will get
Business User	I need visibility to the status of my business transactions as they flow through the MS/SAP ecosystem.	I will no longer need to create service tickets to get the status of my SAP transaction flow.
Engineering Team	We want to know business process issues before it impacts business operations and leads to customer satisfaction issues. We need end to end visibility of business transactions through SAP telemetry data in a common consumption format (UTP) with shared keys.	We no longer need to check multiple SAP transactions to investigate business process issues. to identify which step the business process has failed/stuck. We will improve the Mean Time-To-Detect (MTTD) and Mean-Time-To-Resolve (MTTR) with the right telemetry data and avoid business disruption for our customers.
Executives	As an executive I need to ensure our business processes are flowing smoothly. If there are critical failures, I need to know before my customers or partners.	I will have trust that my business process executes seamlessly all the time and errors get proactively address with no impact to customers or partners.



Finance (Payments) - PowerBI Dashboard





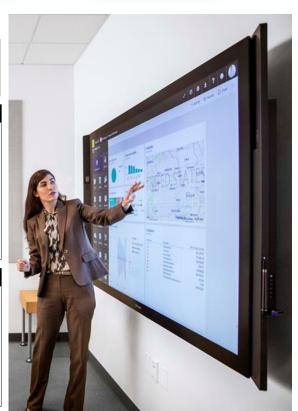


Company Code

Payments Ser	vice UTP data - MS	SS Payments			
Date Range	# Payment Runs	# Payment Runs Completed	# PAIN001 Created	# Pay Medium Created	# Received by Pay Network
2/19/2019 3/26/2019	420	420	374	374	324

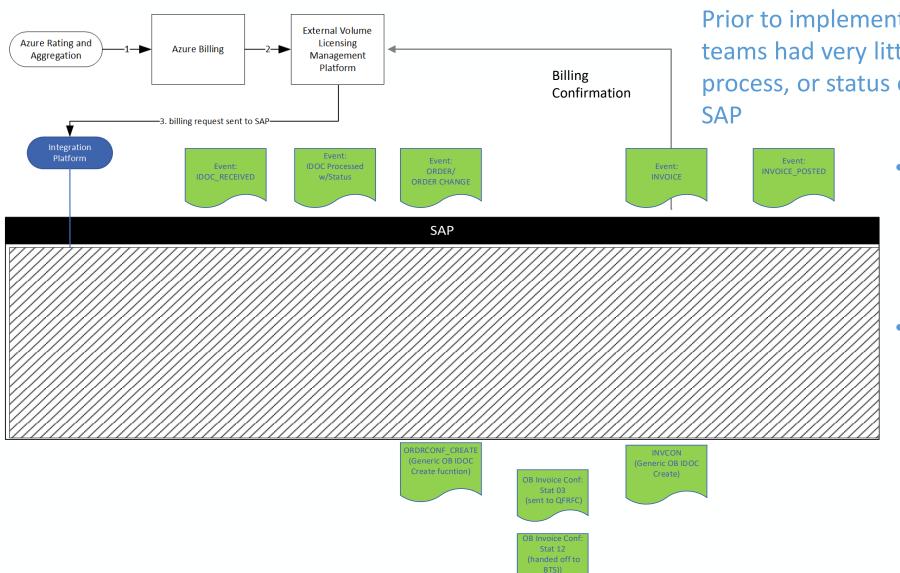
XCV	Payment Runs						
Search	▲ XCV	Payment Run Started	Payment Run Completed	PAIN001 Created	Payment Medium Created	Submitted to Bank	Received by Payment Ne^
20190313-ZTUR1	20190313-ZTUR1	Completed	Completed	Completed	Completed	•	Completed
20190315-Z1614	20190315-Z1614						Completed
20190315-ZMSC4	20190315-ZMSC4			Completed	Completed		
	20190318-Z1038	Completed	Completed	Completed	Completed		Completed
20190318-Z1038	20190318-Z1180	Completed	Completed	Completed	Completed		Completed
20190318-Z1180	20190318-Z318A	Completed	Completed	Completed	Completed		Completed
20190318-Z318A	20190318-Z4201	Completed	Completed	Completed	Completed		Completed
20190318-Z4201	20190318-ZAPSL	Completed	Completed	Completed	Completed		Completed

Payment Details					
End to End ID	Batch Number	Batch Created	Accept/Reject by Bank	Reject after Accept	Reject/Reversal Update
15000150191639	90373	Completed	Completed	Completed	Completed
15000619461548	90709	Completed	Completed	Completed	Completed
15001637671429	90166	Completed	Completed	Completed	Completed
15002072971078	90097	Completed	Completed	Completed	Completed
15002074211078	90634	Completed	Completed	Completed	Completed
15002074701078	90634	Completed	Completed	Completed	Completed
15002528371290	90602	Completed	Completed	Completed	Completed





Order to Cash Business Process (Volume Licensing)



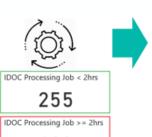
Prior to implementing Telemetry, our partner teams had very little visibility to the business process, or status of their billing requests in SAP

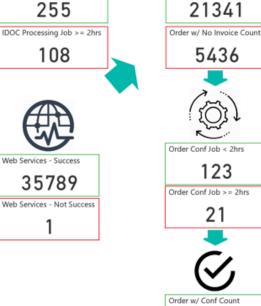
- Now, our partner teams can access detailed tracking of all their transactions as they flow across the eco system.
- Internally, we can now automatically detect failures and service level breaches in near real time; as well as track volumes and performance.



Volume Licensing – PowerBI Dashboard







22581

4279

Order w/o Conf Count



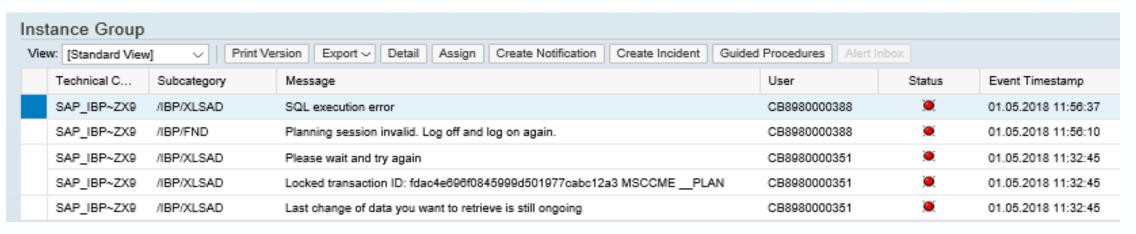


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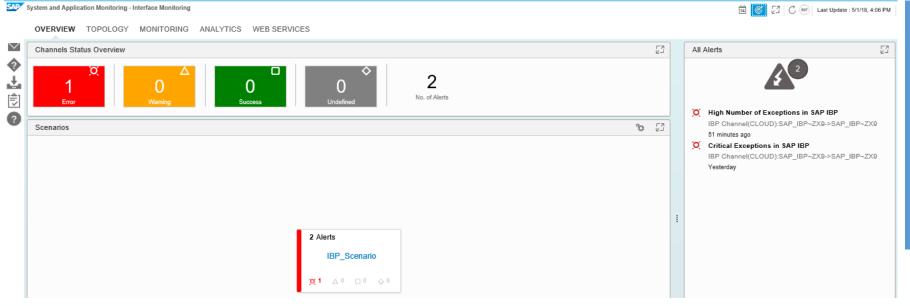




SAP SaaS – Enabling IBP Monitoring via SolMan







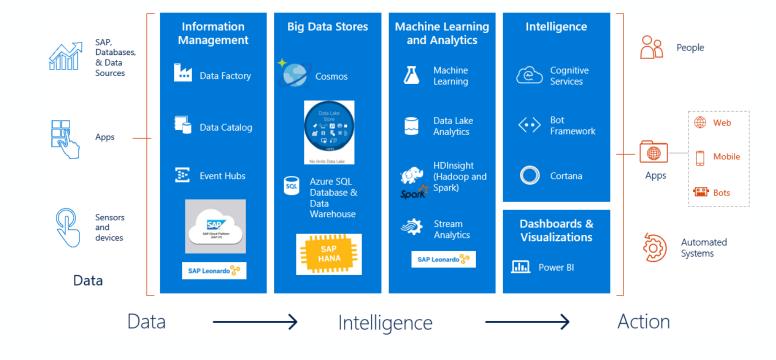
- Exception Monitoring Cockpit with IBP Exceptions.
- Enable Alerting Email notifications for failures.
- Interface Channel Monitoring.



S/4HANA (Future)



- S/4HANA will leverage our current solution for business process monitoring
- Adapt business
 processes for S/4HANA
 greenfield

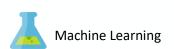




SAP Telemetry and Monitoring – What next?

- Machine Learning for Predictive Analytics
- End to End Alerting
- Telemetry based automation

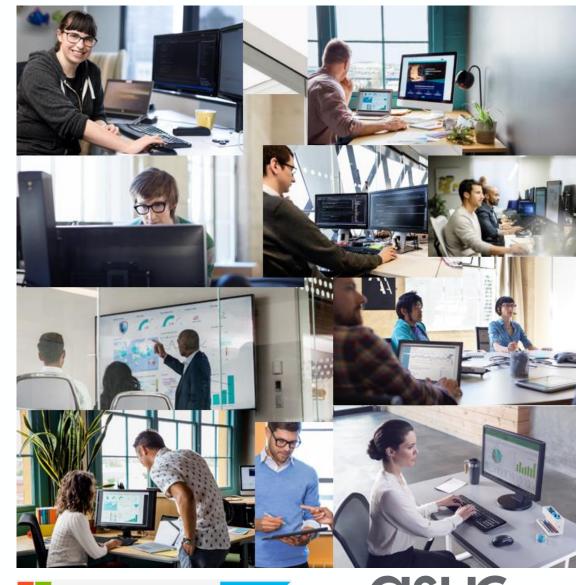










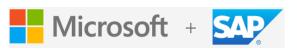








SAP on Azure Links and Information



Come and see our Telemetry & Monitoring demo at the Microsoft booth!

SAP on Azure: Your trusted path to innovation in the cloud

How Microsoft moved its SAP workload to the cloud

Managing Microsoft Azure Express Route

Strategies for Migrating SAP systems to Microsoft Azure

Right-Sizing And Tight-Sizing SAP For Azure

Running SAP Workloads On Azure (Incl. HANA)

Running SAP Apps On The Microsoft Platform

Channel 9 SAP on Azure

SAP HANA on Azure

Channel 9 SAP HANA on Azure



About the Speakers



Enda Sullivan

SAP Program Manager, Microsoft

Enda has worked at Microsoft for over 15 years. He is currently focused on enabling Microsoft's digital transformation with SAP on Azure for the 'SAP at Microsoft' internal implementation. He focuses on enabling Go-To-Market (GTM) scenarios and showcasing customer scenarios from the 'SAP at Microsoft' implementation, as well as leading the strategic rhythm of business with SAP AG and Microsoft executive teams. Prior to Microsoft Enda spent 12 years in various SAP lead roles across Europe and the US.

Blake Barrow

SAP Architect, Microsoft

Blake started working with SAP as an Analyst and Programmer for a major medical company in 1995 and has been at Microsoft for the last 13 years. At Microsoft, Blake has had various analyst and architecture roles supporting our Order to Cash and procurement processes for Supply Chain and Volume licensing. He is currently the architect for the MS-SAP Telemetry solution, and Business Analytics.

Aron Stern

SAP Architect, Microsoft

Aron has over 14 years of experience working with SAP at Microsoft in technical roles. He was the lead architect for Microsoft's internal SAP migration to Azure and continues to get involved in all things Azure related.









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Presentation Materials

Access the slides from 2019 ASUG Annual Conference here:

http://info.asug.com/2019-ac-slides



Q&A

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