



Integration Monitoring via Focused Run for SAP Solution Manager (FRUN)

Focused Run Product Management, SAP Digital Business Services, Customer Experiences & Solutions
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PUBLIC

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Agenda

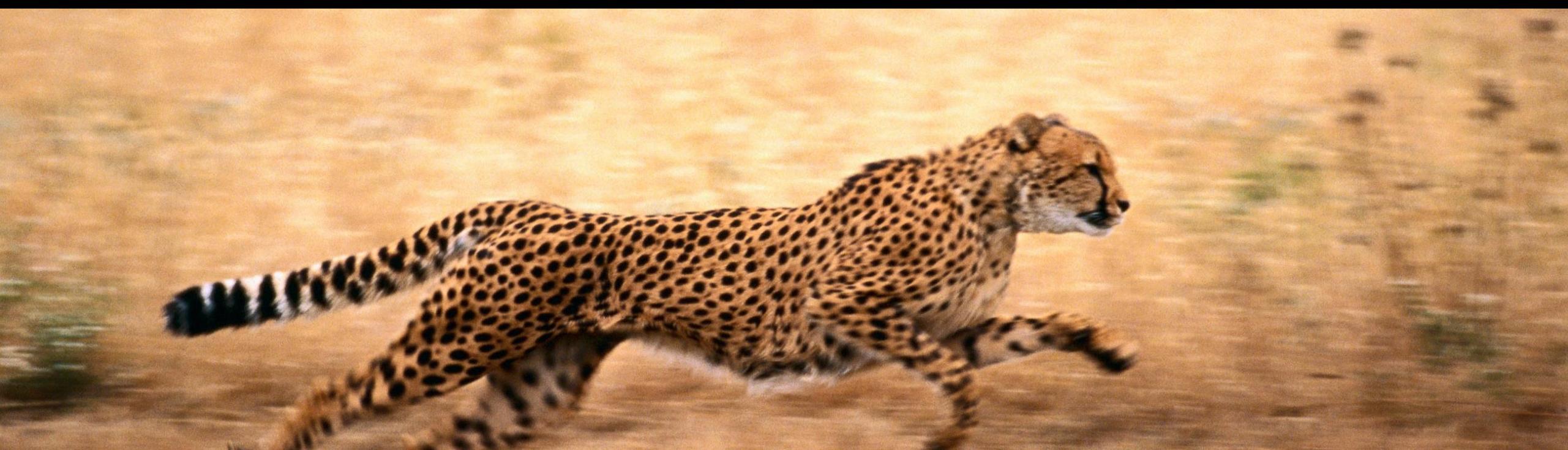
What is Focused Run?

Advanced Integration Monitoring

- Big Picture
- Demo – Integration & Cloud Monitoring UI
- Demo – Scenario Configuration

Summary and Help Links

What is Focused Run?



Focused Run – Mission statement

- Is a **powerful solution for service providers** who want to host their customers in a **central, scalable, safe, and automated environment with minimal TCO**
- **Addresses customers & partner with advanced needs** for example in configuration monitoring, user monitoring, integration monitoring, dashboarding & artificial intelligence
- Uses the **full power of SAP HANA as a platform**, including replication, partitioning, predictive analytics, and compression
- Is a **separate installation**, which can run **side-by-side with an existing SAP Solution Manager**
- Provides feature rich and powerful **functionality dedicated to operations of IT solutions**
- Isn't covered by maintenance fee, but **needs to be licensed separately from SAP**



Focused Run – Technical Architecture

Advanced Event & Alert Management (AEM)

Advanced System Management (ASM)

Advanced User Monitoring (AUM)

Advanced Integration Monitoring (AIM)

Advanced Configuration Monitoring (ACM)

Advanced Root Cause Analysis (ARA)

Advanced Dashboarding & Intelligence (ADI)

Focused Run Application Foundation

Landscape Management Database

Simple Diagnostic Agent & SAP Host Agent

Monitoring & Alerting Infrastructure

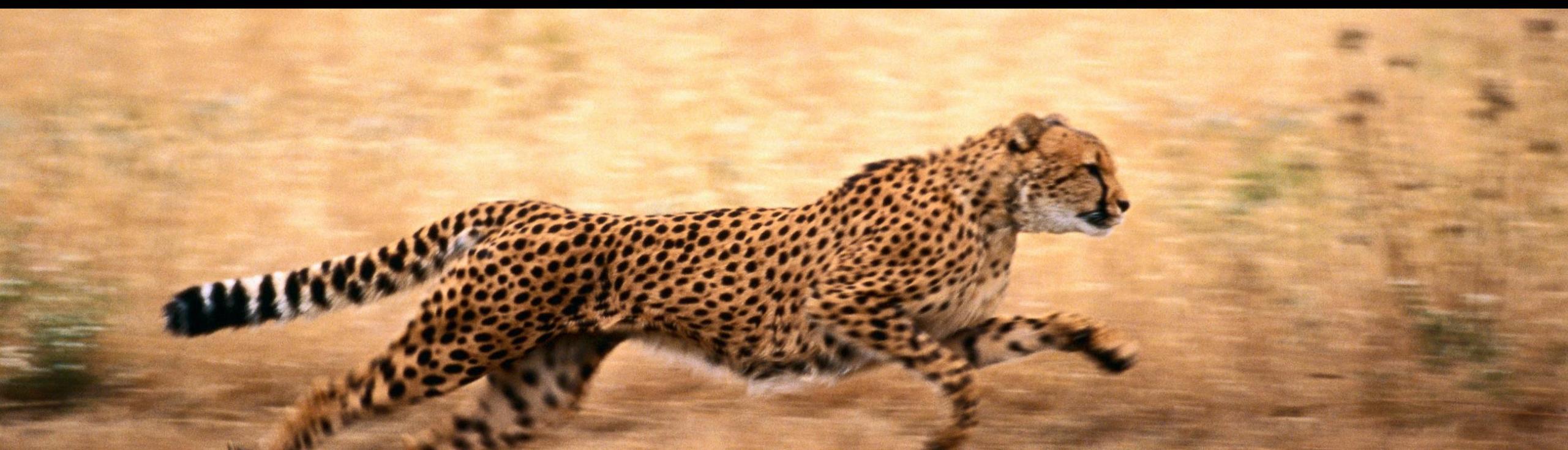
Expert Scheduling Framework

Simple System Integration

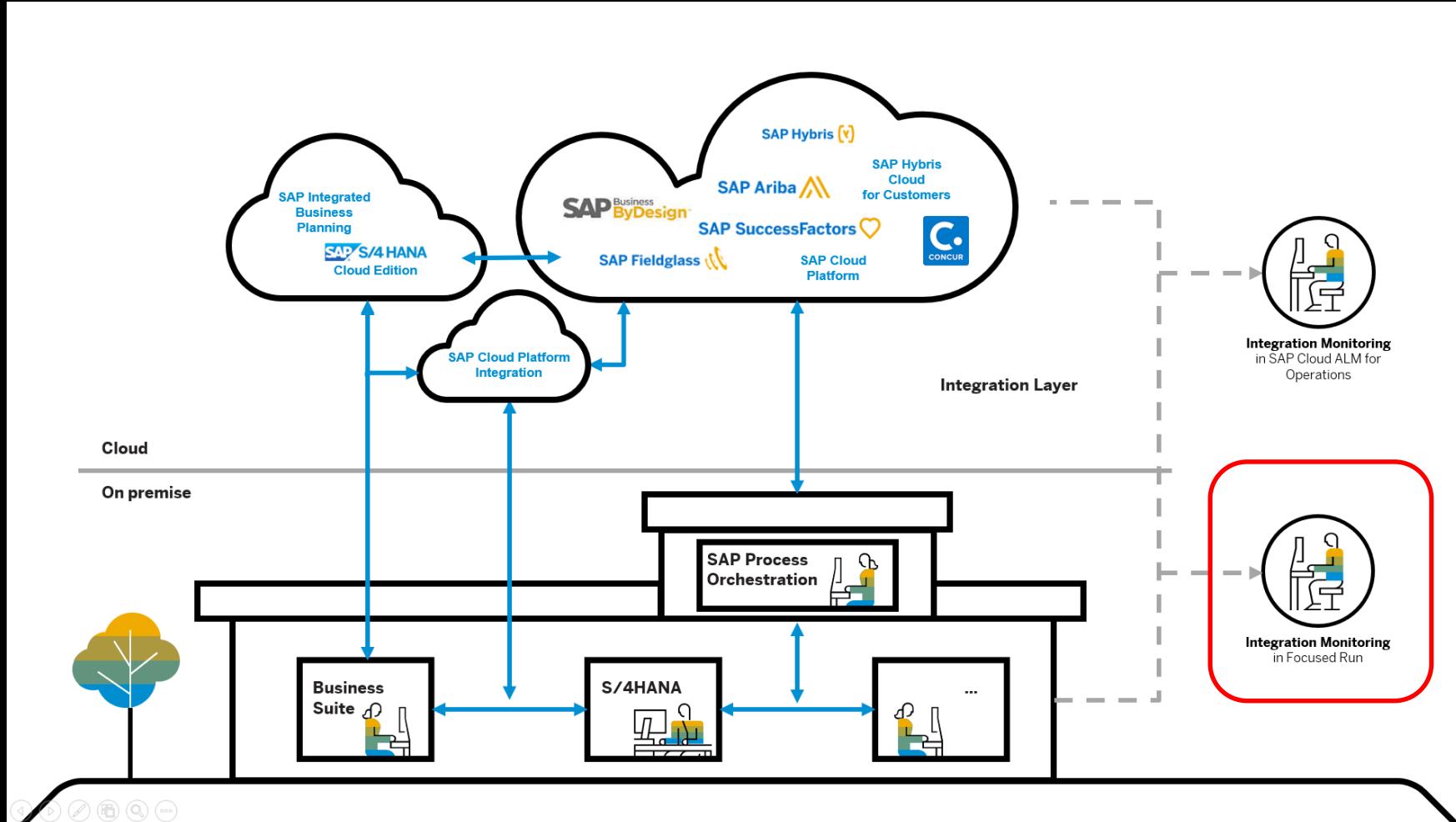
Guided Procedure and Setup Framework

SAP HANA + SAP NetWeaver ABAP + SAPUI5 as Technology Foundation

Advanced Integration Monitoring

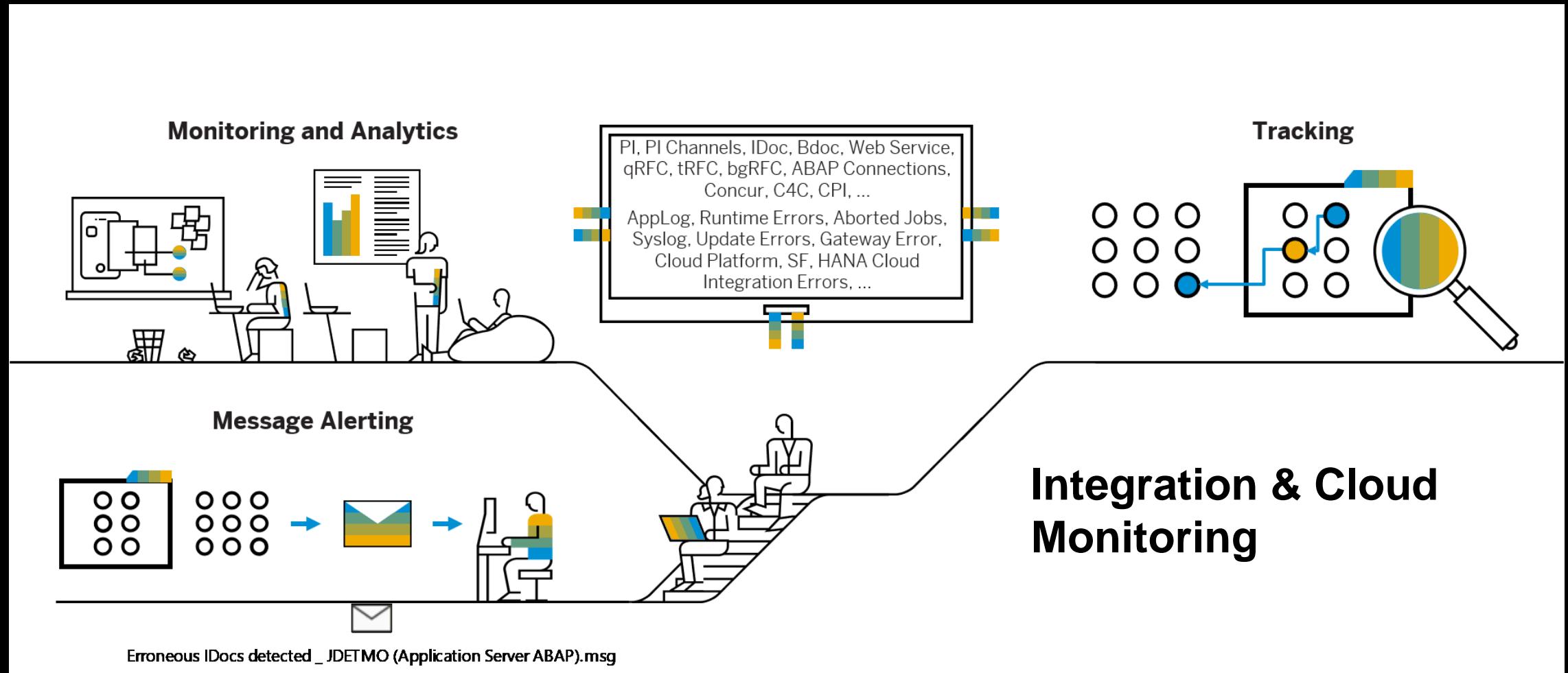


Big Picture

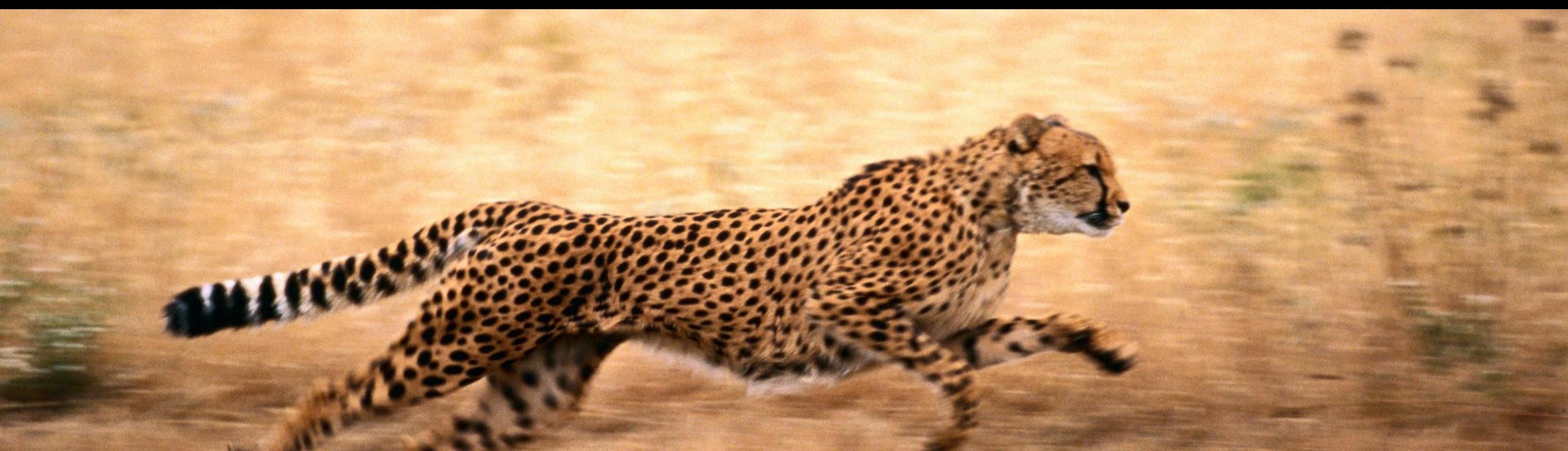


- ✓ provides one central overview of data exchange processes at application level in cloud-only and hybrid scenarios
- ✓ end-to-end monitoring across all SAP applications and major technology services
- ✓ closing the gap between business and IT

How does it work and Usage Scenario



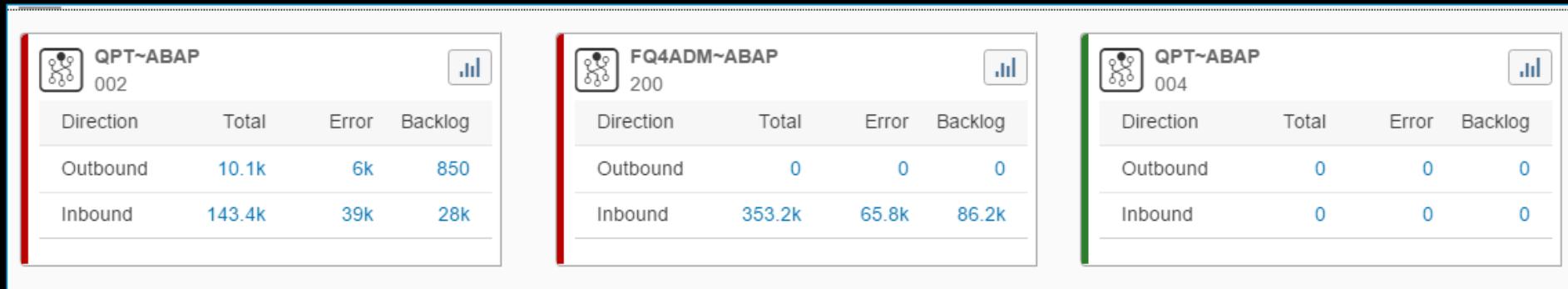
Integration & Cloud Monitoring Consumption UI



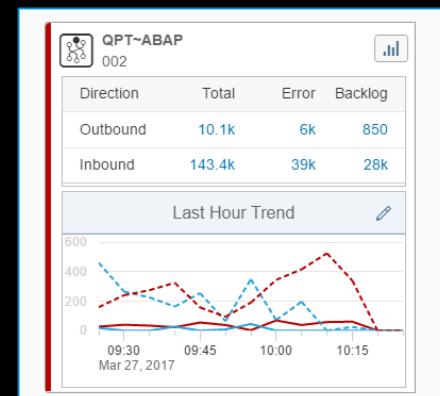
Example: Monitoring via Integration & Cloud Monitoring

By analyzing **Messages per System** the following questions can be answered:

What is the **message distribution** for my **business systems**?



How many **erroneous messages** do I have **in a specific system** and what is the **current trend**?



Example: Monitoring via Integration & Cloud Monitoring

Get a detailed **status overview** per business system on the incoming/outgoing messages for **different interfaces**

Direction	Message Type	Sender Port	Sender Partner Number	Receiver Port	Receiver Partner Number	Status Summary		Total
						486 (61.4%)	287 (36.2%)	
Inbound	INVOIC	A000000016	MIKO_EDI	A000000016	MIKO_EDI	486 (61.4%)	287 (36.2%)	792
Inbound	INVOIC	A000000016	PIRELLI	SAPQPT	0000000043	82,019 (80.7%)		101,574
Inbound	INVOIC	A000000016	WOS-V02-X	SAPQPT	0000000281	505 (85.0%)		594
Inbound	INVOIC	SAPX7T	Q7NCLNT001	SAPQPT	QPTCLNT002	2,085 (81.0%)		2,574
Inbound	INVOIC	SAPX7T	Q9NCLNT001	SAPQPT	QPTCLNT002	18,570 (45.1%)	11,907 (28.9%)	41,184
Inbound	MATMAS	SAPQ3A	Q3ACLNT002		QPTCLNT002	536 (45.1%)	549 (46.2%)	1,188
						25,145 (22.7%)	22,775 (19.2%)	47,920 (41.4%)

Define **on the fly** which **aggregated view** you would like to have on your data

View Settings

IDoc Overview

Timeframe

Status Group

Direction

Aggregate By

Display Mode

Top N

Example: Monitoring via Integration & Cloud Monitoring

Drilldown to **single messages** to check individual issues and message details

The screenshot shows the SAP Fiori IDoc Overview Cards interface. On the left, a table lists various IDocs with columns for Status, Direction, Document Number, Creation Time, Update Time, Status, Basic Type, Message Type, Receiver Port, Receiver Partner Number, and Receiver Partner Type. Most entries are successful (green), while some are errors (red). A specific error message is selected, highlighted with a blue border. To the right of the table, a detailed view is displayed in a card format. The card has tabs for 'Message Details', 'Custom Fields', and 'Status Records'. The 'Message Details' tab is active, showing fields like Name (000000081654269), Document Number (000000081654269), Status Group (Error), Creation Time (Mar 26, 2017, 4:05:32 PM), Update Time (Mar 26, 2017, 4:05:32 PM), Status (60), Basic Type (INVOIC02), Message Type (INVOIC), Message Variant (MM), Message Function, Sender Address, and Sender Port (A000000016).

Status	Direction	Document Number	Creation Time	Update Time	Status	Basic Type	Message Type	Receiver Port	Receiver Partner Number	Receiver Partner Type
Successful	Outbound	000000081668250	Mar 26, 2017, 5:05:13 PM	Mar 26, 2017, 5:05:27 PM	53	INVOIC02	INVOIC	CP1CLNT800	CP1CLNT800	LS
Successful	Outbound	000000081668249	Mar 26, 2017, 5:05:13 PM	Mar 26, 2017, 5:05:27 PM	53	INVOIC02	INVOIC	CP1CLNT800	CP1CLNT800	LS
Successful	Outbound	000000081668248	Mar 26, 2017, 5:05:13 PM	Mar 26, 2017, 5:05:27 PM	53	INVOIC02	INVOIC	CP1CLNT800	CP1CLNT800	LS
Error	Outbound	000000081668232	Mar 26, 2017, 5:05:13 PM	Mar 26, 2017, 5:05:14 PM	51	INVOIC02	INVOIC	CP1CL		
Error	Outbound	000000081668233	Mar 26, 2017, 5:05:13 PM	Mar 26, 2017, 5:05:14 PM	51	INVOIC02	INVOIC	CP1CL		
Error	Outbound	000000081668234	Mar 26, 2017, 5:05:13 PM	Mar 26, 2017, 5:05:14 PM	51	INVOIC02	INVOIC	CP1CL		
Error	Outbound	000000081668235	Mar 26, 2017, 5:05:13 PM	Mar 26, 2017, 5:05:14 PM	51	INVOIC02	INVOIC	CP1CL		
Error	Outbound	000000081668236	Mar 26, 2017, 5:05:13 PM	Mar 26, 2017, 5:05:14 PM	51	INVOIC02	INVOIC	CP1CL		
Error	Outbound	000000081668237	Mar 26, 2017, 5:05:13 PM	Mar 26, 2017, 5:05:14 PM	51	INVOIC02	INVOIC	CP1CL		

Check **status history and important payload fields** for the selected message

Example: Monitoring via Integration & Cloud Monitoring

The screenshot displays the SAP Integration & Cloud Monitoring interface. It includes:

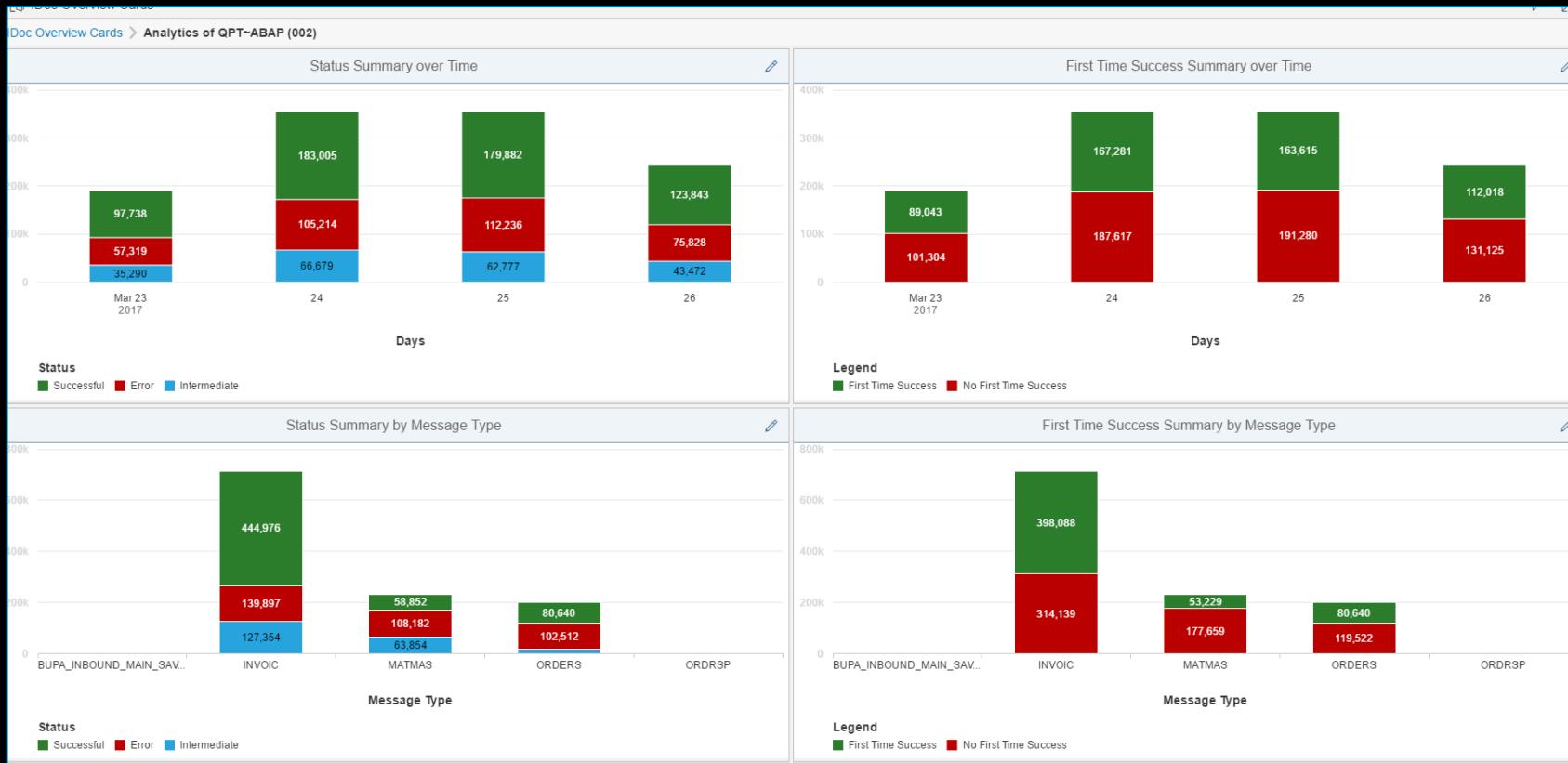
- Top Left:** Status Overview showing 1 RFC/HTTP Conn., 15 Integration Flows, and 0 Exceptions.
- Top Right:** Alert Ticker indicating "No Alerts with Current Rating Red or Yellow".
- Middle Left:** Scenario Topology diagram showing connections between SAPIT4 (SAP SuccessFactors), sfhcplay (SAP Cloud Platform Integr.), and QK8DLM (ABAP).
- Bottom Left:** Two line charts titled "Average Duration & Status Over Time" showing status over time from Jul 3, 2018, with a blue arrow pointing to a peak in the second chart.
- Bottom Right:** A detailed view of the scenario topology with specific status information for each node: QK8DLM (Outbound Status: green, Inbound Status: green, Related Exception(s): 11), sfhcplay (Status: green, Related Exception(s): 0), and SAPIT4 (Status: green, No Event Expected, Related Exception(s): 0).

Get an overview on **exceptions, usage and performance** of scenario related end-to-end message flows.

Drill down to the **graphical visualization** of the **single end-to-end messages flow**.

Example: Analytics via Integration & Cloud Monitoring

Get an overview on **historical data** for the different integration types to identify **trends** and compare **different time periods**.



Example: Tracking via Integration & Cloud Monitoring

Where is my document? Use the new **Enhanced Document Tracking** feature to find your document independent on categories and components

The screenshot shows the SAP Integration & Cloud Monitoring interface. At the top, it displays "Integration & Cloud Monitoring" and a document ID "7261947544". A modal window titled "Document Tracking" is open over a list of tracking entries. The modal contains tabs for "Message Details", "Processing Details", and "Custom Headers". The "Message Details" tab is selected, showing the following data:

Name	Value
Artifact Name	Replication Flow
Message ID	AFISdJ5hGThDn32ILhxYN_HYa-LR
Correlation ID	AFISdJ6xBLXk5dxWlfm9J2_cLbWT
AletrID	
CorrelationId	AFISdJ6xBLXk5dxWlfm9J2_cLbWT
ArtifactType	INTEGRATION_FLOW
iFlow	Inbound_Flow

Below the modal, the main interface shows a table with columns: Status Group, System, Document ID, Document Description, and Date. The table lists seven entries, all under the "SUCCESSFUL" status group and "SAP_HCI~hcibeta2 (CPI)" system. The document ID for all entries is "AFISdJ5hGThDn32ILhxYN_HYa-LR". The document description is "Employee = 7261947544". The dates range from 12/15/18 to 12/17/18.

Example: Alerting via Integration & Cloud Monitoring

The screenshot shows the SAP Integration & Cloud Monitoring interface. On the left, there's a summary bar with counts for Components (20), Not Rated (8), Success (0), Warning (0), Error (12), and In Process (0). Below this is a 'Component Overview' section for today, divided into Systems and Cloud Services. It lists several application servers (EE1TMO, EE2TMO, E73TMO, FA7SSC, FT4ADM, JDE7TMO) with their respective ABAP stacks and connection metrics. A central 'Alert Ticker' window is open, displaying a list of alerts related to iFlows and PI messages.

Get an overview on **scenario related alerts**. Use forward navigation to analyze the alerts in the Alert Inbox

Handle alerts with action like Add Comment, Assign Processor, ...

The screenshot shows the SAP Alert Management - Alert Detail screen for an alert titled 'Erroneous iFlows detected in SAP Cloud Platform Integration'. The alert was created 223 days ago and last updated 3 minutes ago. It has a priority of High, status of Open, and severity of 5. The processor is CH1-SSC-01 and the customer is SSC. The alert details include information about erroneous iFlows, PI messages, and RFC logons. A yellow arrow points from the 'Alert Ticker' in the previous screenshot to this detail screen. The right side of the screen shows a timeline of metrics and a table of failed message details.

Status Group	Status Details	Update Time	Processing Time	Message ID	Artifact Name
Failed	javax.script.ScriptExcept...	Jul 5, 2018, 2:51:59 PM	7 ms	AFmTcsu30dzOx_533880I4w4EKR	ErrorHandlingDemoRou...
Failed	javax.script.ScriptExcept...	Jul 5, 2018, 2:49:59 PM	7 ms	AFmTclOgcWQl-KTA1zgW3kJAzkwu	ErrorHandlingDemoRou...
Failed	javax.script.ScriptExcept...	Jul 5, 2018, 2:47:59 PM	13 ms	AFmTdufNd682YppqIEHycVr85rp	ErrorHandlingDemoRou...
Failed	javax.script.ScriptExcept...	Jul 5, 2018, 2:45:59 PM	7 ms	AFmTcWNQgL8zKpta8frsia3ZWBM4	ErrorHandlingDemoRou...

Integration & Cloud Monitoring

Additional Features – Scope Selection

The Integration & Cloud Monitoring offers an **advanced scope selection**.

As **application support users** you can open the application via **systems** and **cloud service selections**

This screenshot shows the 'Scope Selection' dialog for 'Technical Systems'. It has two tabs: 'Scenario Specific' and 'Component Specific', with 'Component Specific' selected. The main area displays a table of systems:

ID	Type	Description
E73TMO	ABAP	ROT-TMO-03
EE1TMO	ABAP	ROT-TMO-03
EE2TMO	JAVA	ROT-TMO-03
FA7SSC	ABAP	CH1-SSC-01
FA7TMO	ABAP	ROT-TMO-03

Below this is another section for 'Cloud Services' with similar filtering and selection options.

As **integration owner** you can open the application via **scenario's selection**

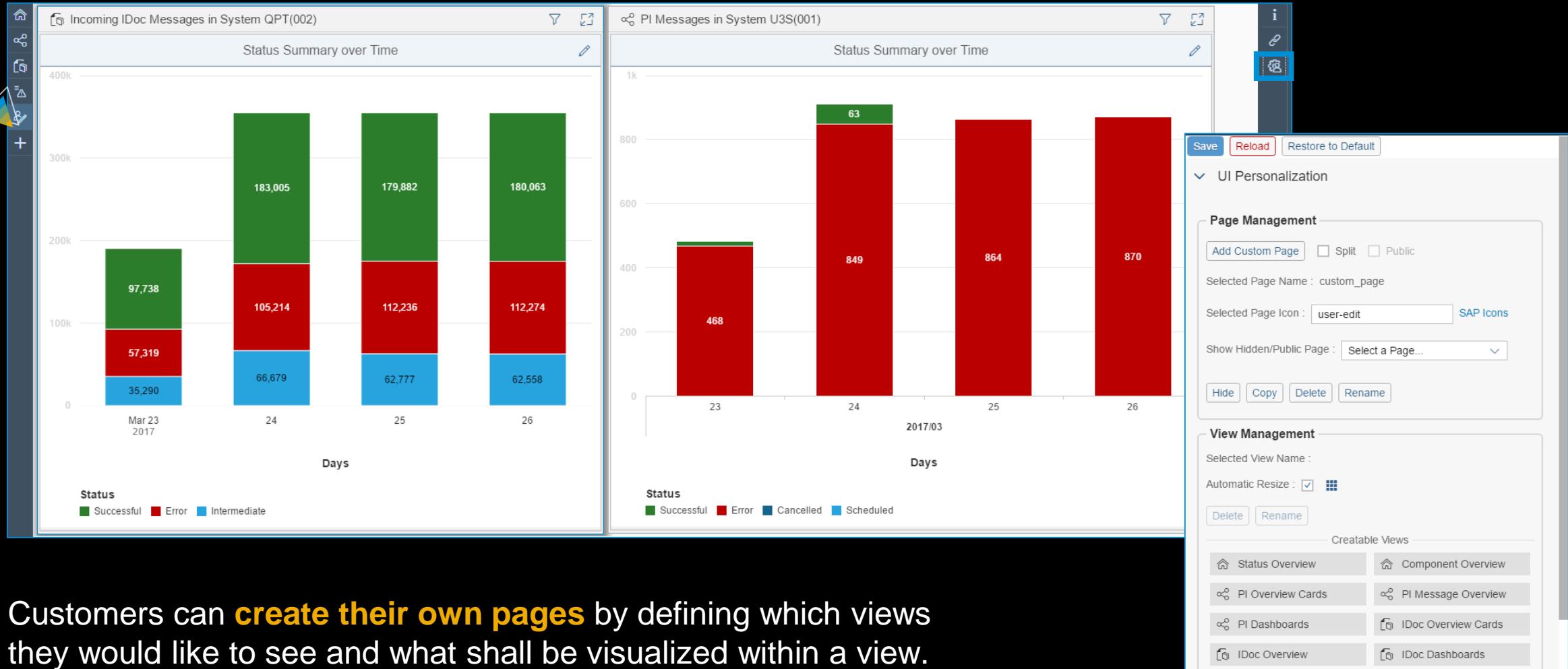
This screenshot shows the 'Scope Selection' dialog for 'Integration Scenarios'. It has two tabs: 'Scenario Specific' and 'Component Specific', with 'Scenario Specific' selected. The main area displays a table of scenarios:

Name	Description
Hybrid Scenario	Hybrid Scenario Demo
SAP Ariba Network Integration	Integration of S/4 HANA oP with Ariba Network via SAP CPI
SAP Hybris C4C Integration	Integration of SAP ERP with SAP C4C via SAP CPI

At the bottom right, there are buttons for 'Set as Default' and 'Select'.

Integration & Cloud Monitoring

Additional Features – Personalization

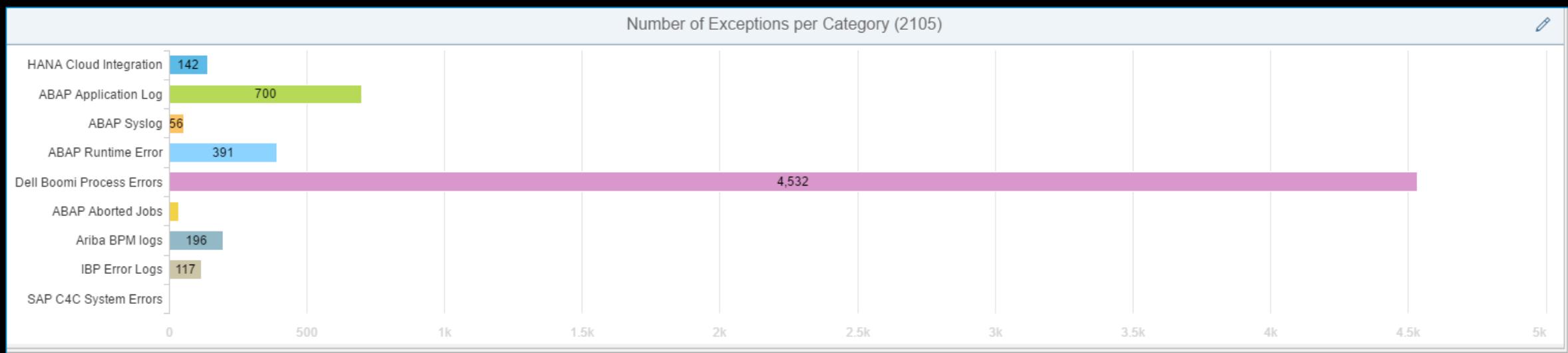


Customers can **create their own pages** by defining which views they would like to see and what shall be visualized within a view.

Integration & Cloud Monitoring

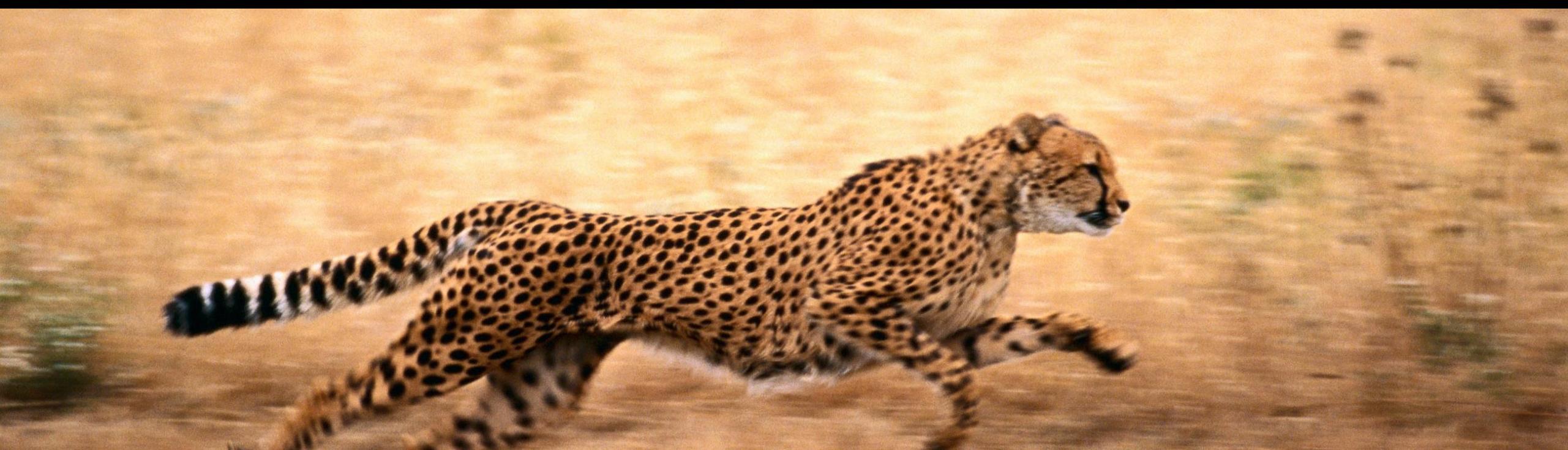
Additional Features – Exception Monitoring

Get an **overview on the integration relevant exceptions** in your **hybrid scenarios** and check which area currently has the highest number of issues.



Check integration relevant **exceptions** that occur on the **on premise systems** as well as exceptions which are related to **SAP public cloud services**.

Integration & Cloud Monitoring Configuration



Configuration Overview

The screenshot displays the SAP Integration & Cloud Monitoring interface, providing a comprehensive overview of integration scenarios and system health.

Top Bar: SAP Integration & Cloud Monitoring | Enter search query... | Last refresh : 03.01.2019 08:48:38 | Date: 14 | Refresh | Settings | Log Out

Status Overview - All Integration Scenarios - Today:

Category	Count
Integration Scenarios	3
Not Rated	0
Success	0
Warning	0
Error	3

Scenarios Overview - Today:

Scenario	Components	Communication Paths
Hybrid Scenario	6	8
SAP Ariba Network Integration	3	2
SAP Hybris C4C Integration	3	2

Alert Ticker - All Integration Scenarios:

- Errenous iFlows detected in SAP Cloud Platform Integration (HCI (SAP Cloud Platform Integration)) 8 minutes ago
- Errenous PI Messages detected (EE2TMO (Application Server Java)) 7 hours 40 minutes ago
- Errenous iDocs detected (Outbound) (EE1TMO (Application Server ABAP)) 129 days ago

Systems:

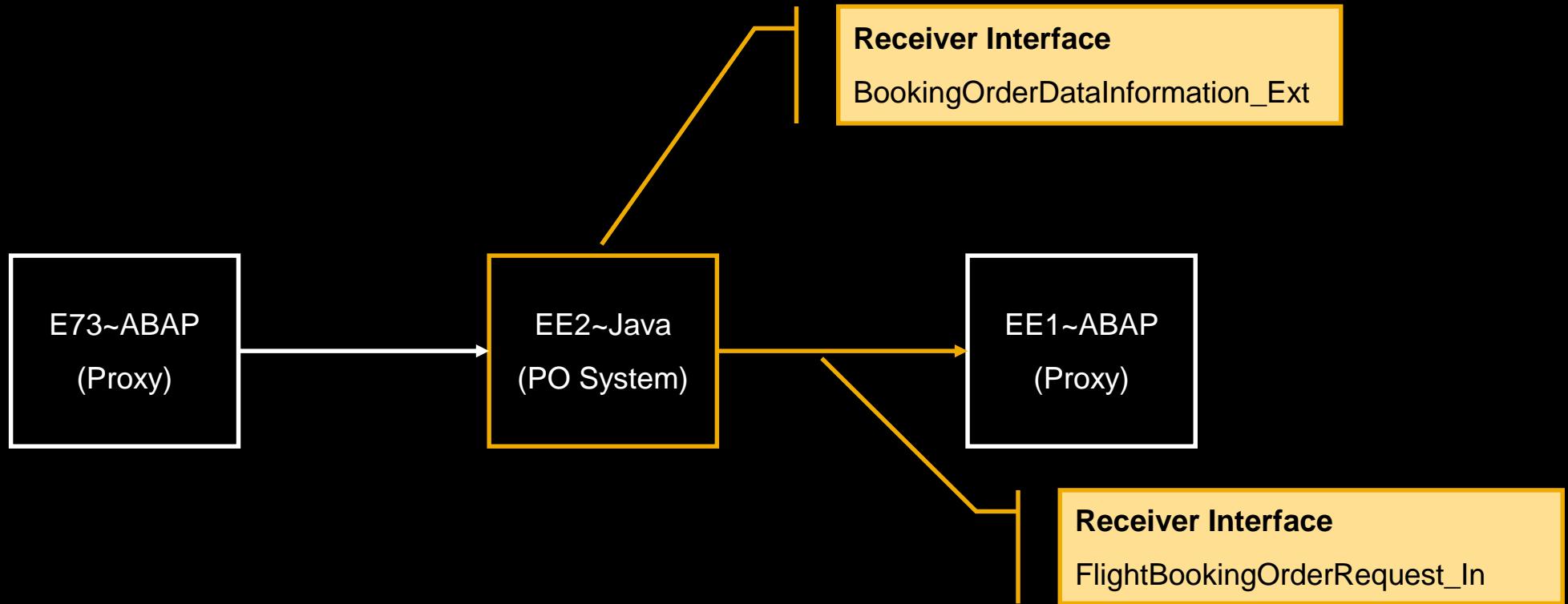
Configured Systems (8)

- C74ADM(ABAP)
- IDoc
- E73TMO(ABAP)
- Connection Monitoring (SM59), IDoc, PI Messages
- EE1TMO(ABAP)
- BDoc, Connection Monitoring (SM59), IDoc, PI Messages, Web Service...
- EE2TMO(JAVA)
- PI Communication Channels, PI Messages
- ESUADM(ABAP)
- Connection Monitoring (SM59)
- FT4ADM(ABAP)
- ABAP Aborted Jobs, Connection Monitoring (SM59), HTTP (Performance...
- JDETMO(ABAP)
- ABAP Aborted Jobs, Connection Monitoring (SM59), IDoc, Web Service...
- QPTDLM(ABAP)
- ABAP Aborted Jobs, ABAP Gateway Errors, ABAP Runtime Error, ABA...

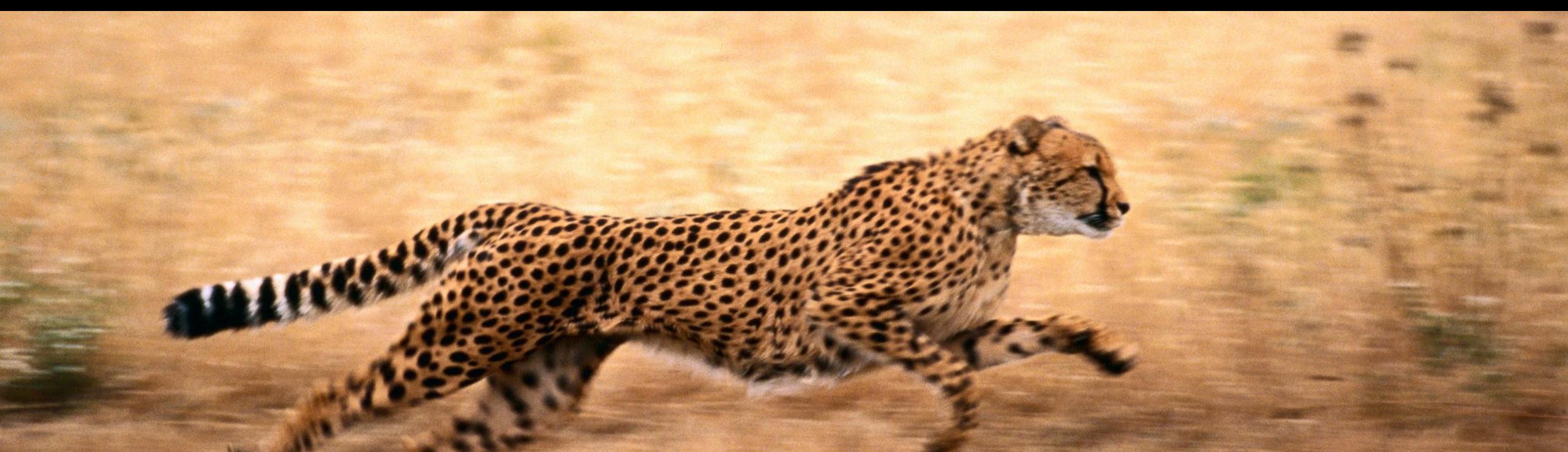
Navigation:

- > Cloud Services
- > Scenarios
- > Settings

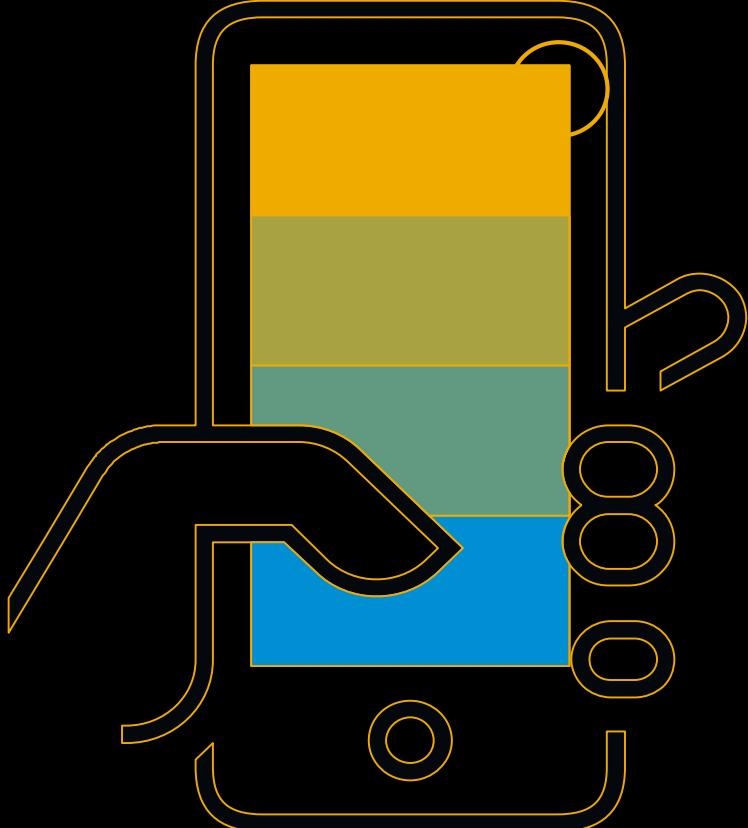
Scenario Creation – Demo



Summary and Help Links



Summary and Help Links



<https://support.sap.com/en/alm/focused-solutions/focused-run-expert-portal.html>

Advanced Event & Alert Management (AEM)

Advanced System Management (ASM)

Advanced User Monitoring (AUM)

Advanced Integration Monitoring (AIM)

Advanced Configuration Monitoring (ACM)

Advanced Root Cause Analysis (ARA)

Advanced Dashboarding & Intelligence (ADI)

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<https://support.sap.com/en/alm/focused-solutions/focused-run-expert-portal/integration-cloud-monitoring.html>

The screenshot shows the SAP Support Portal interface. At the top, there is a navigation bar with links for 'My Support', 'Products', 'Tools', 'Maintenance', 'Offerings & Programs', 'Application Lifecycle Management', and search functions. Below the navigation bar, the page title is 'Integration & Cloud Monitoring'. Underneath the title, there are links for 'Integration & Cloud Monitoring', 'Relevant Notes', 'Content', and 'Release Notes'. A large section titled 'Integration & Cloud Monitoring' contains a 'Scope' heading and a detailed description of the service's purpose: 'Integration and Cloud Monitoring provides monitoring of data exchange in-between different systems within a system landscape or between systems within a landscape and external components (e.g. public cloud services). Data is collected on managed system side (e.g. for IDocs and PI Messages) and transferred to the Focused Run system or is directly pulled from APIs exposed by the public cloud services into the Focused Run'.

Thank you.

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