Your transformation to the cloud - CB interface discovery takes care of connectivity

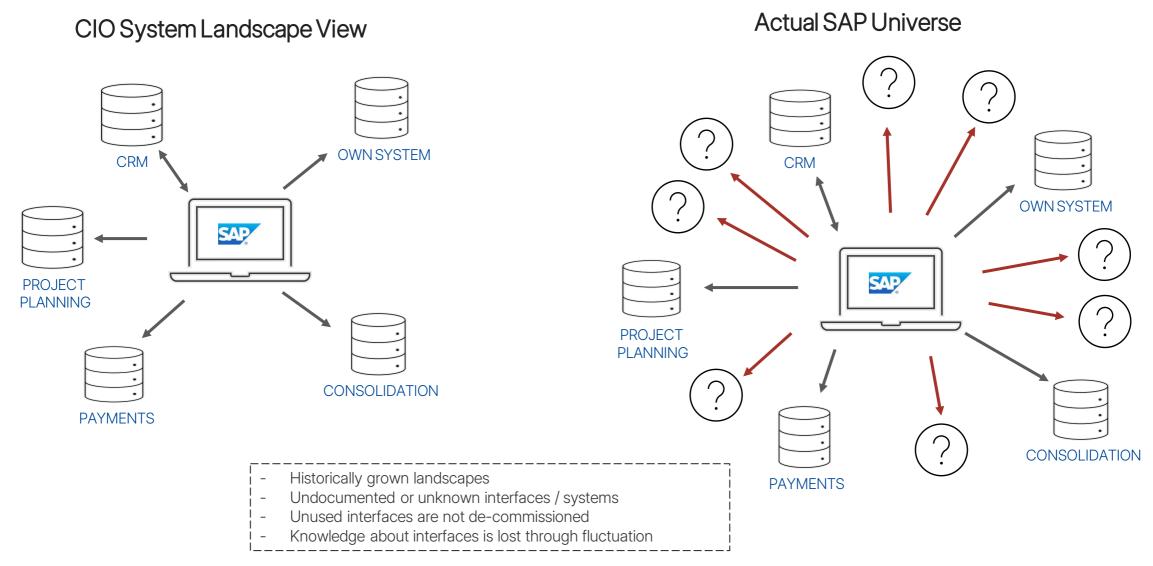
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Vice President Interface Management

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Product Manager CrystalBridge Cloud Suite





# Interface Topologies are often more complex than expected



#### DO YOU KNOW ALL YOUR INTERFACES?

# "We don't know what we don't know"

[Customer statement after ID Assessment]



### Challenges

#### PROJECT SITUATION

An IT change project or transformation project is planned or has already started (e.g. Cloud Move)?

Existing interface documentation is incomplete, outdated or potential gaps are unknown?

A "rapid" interface analysis shall be made to safeguard a transformation project?

#### **DAILY BUSINESS**

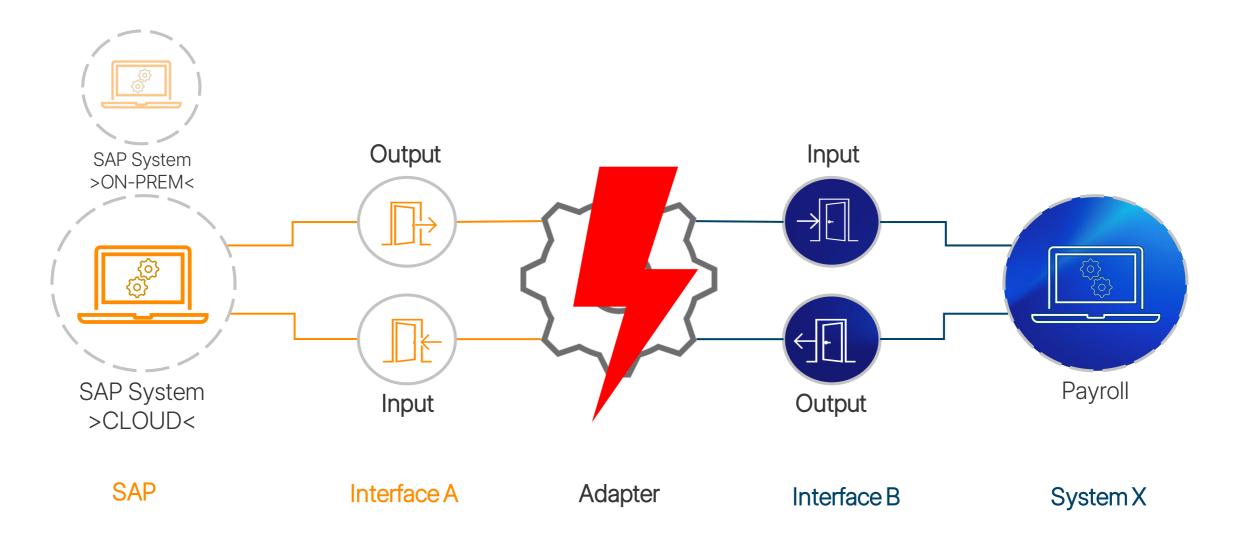
Are inventory and documentation of interfaces as well as continuous updates tasks of your IT?

You have undocumented interfaces although change management processes are in place?

You struggle to fulfill Audit requirements?

Interface Management doesn't really create enthusiasm, because you suspect what awaits you: recurring, time-consuming manual analysis?

# Are Interfaces important?



### **Interfaces are important!**

What can happen in **Projects** if you don't know your interfaces?



#### Reschedule Golive

→ Golive delayed or rescheduling required



# Post-Golive Problems

No option to continue with old system



#### New Implementation

Adaption resp. new implementation needs lead time!



#### **High Cost**

Rescheduling of Golive or failures after Golive can get quite expensive

### Basic Idea: Generate Topology Map based on Traffic

#### Traffic Systems



Railroad → Train, Tram, ..



Road → Car, Truck, Bike, ...

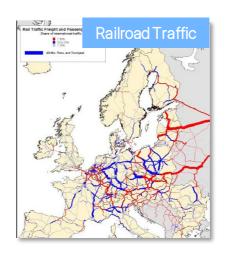


Air → Plane, Heli, ..

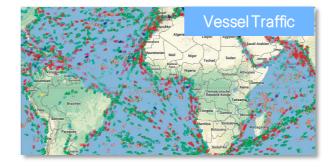


Traffic

#### Traffic Visualization via Topologies

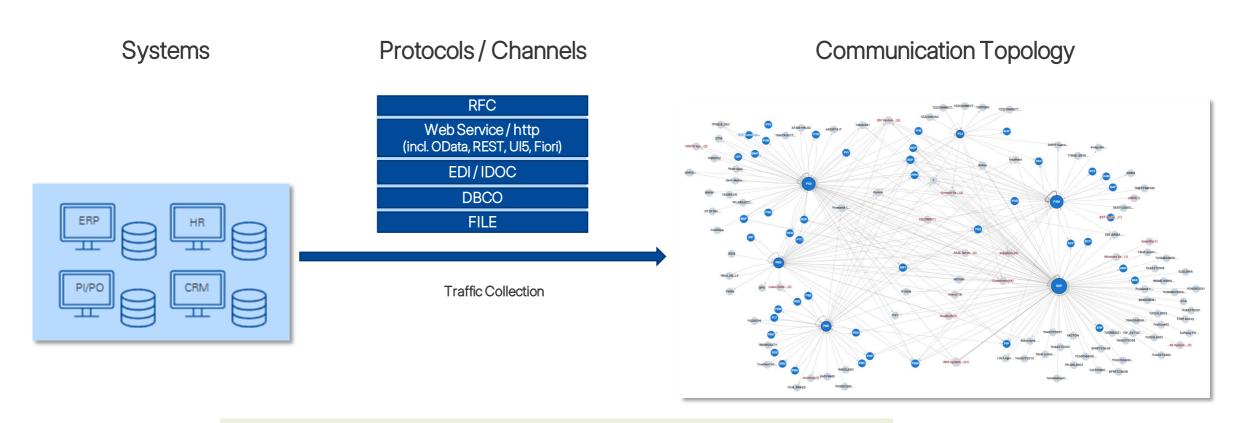






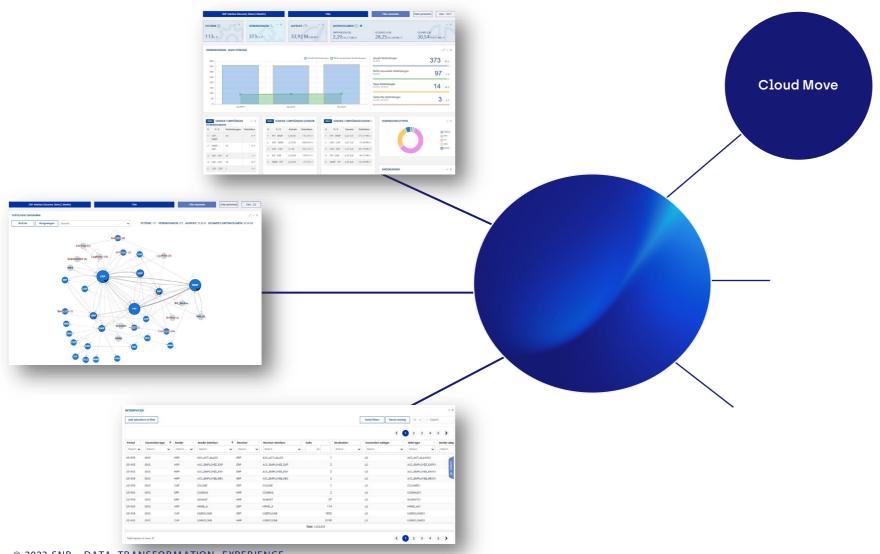


### ID Context: Generate Topology Map based on Traffic

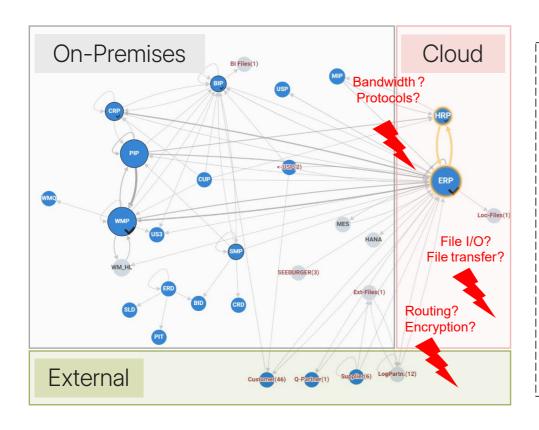


- Always up-to-date overview for SAP landscapes of any size
- Time savings due to significant reduction of manual effort
- Easy analysis of communication paths and data streams system-specific or cross-system
- Extensible via Customer API

# Interface Discovery Relevant and beneficial for all Project Types



### Interface Analysis – Use Case "Cloud Move"



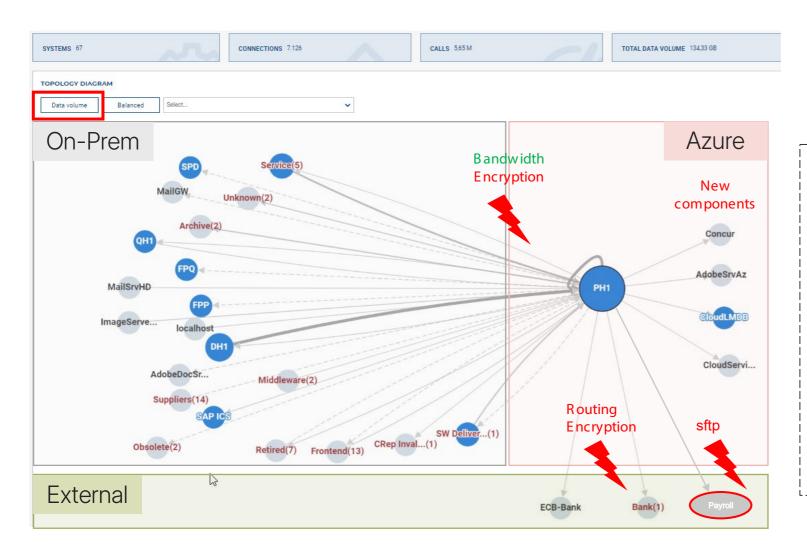
#### Scenarios

- 1. One or many SAP System(s) move to the cloud including / excluding environmental systems and/or non-production landscape(s)
  - · Cloud-specific limitations, flexibility and cost factors to be reviewed
- 2. Like (1) including any kind of business transformation, e.g. S/4 transition

#### Analysis Topics

- Analyze environmental systems / communication partners (on-prem and external)
- Analyze cloud-readiness of interfaces based on customer- / cloud-specific criteria
- Analyze bandwidth and secure communication requirements
- Create checklists for configuration adaptions
- Scenario 2: Analyze interfaces directly impacted by business changes

Interface Topology (by Data Volume) - Future Cloud Projection



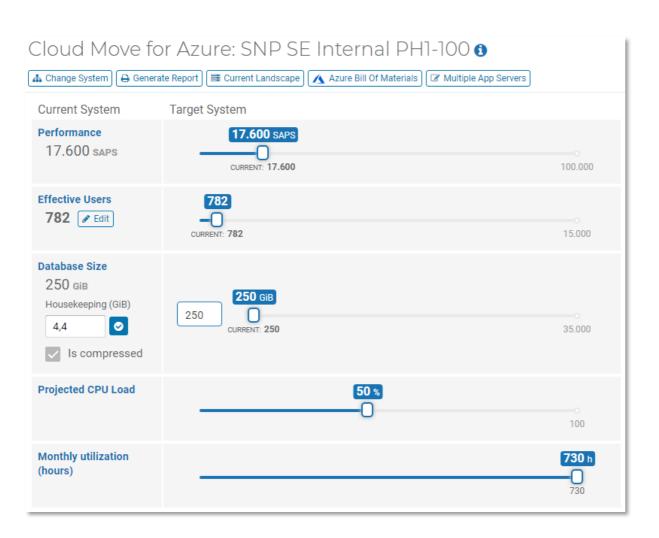
#### Scenario

- S/4 System PH1 to be moved to Azure (operated by SAP) including Document Archive
- Cloud-specific limitations
  - In-/outbound traffic only via SNP network
  - sftp to be avoided
  - Bandwidth

#### Analysis Topics (excerpt)

- Cloud readiness, especially file interfaces
- External communication partners
- Analyze bandwidth and secure communication requirements
- Checklists for configuration adaptions

Cloud Move Assessment in CrystalBridge Cloud Suite



#### **Prerequisites**

Analysis results (based on Analysis Extractor)

#### Results (excerpt)

- Cloud Planning: deployment options, sizing, pricing
- Cloud Provisioning: create customer tenant in Azure

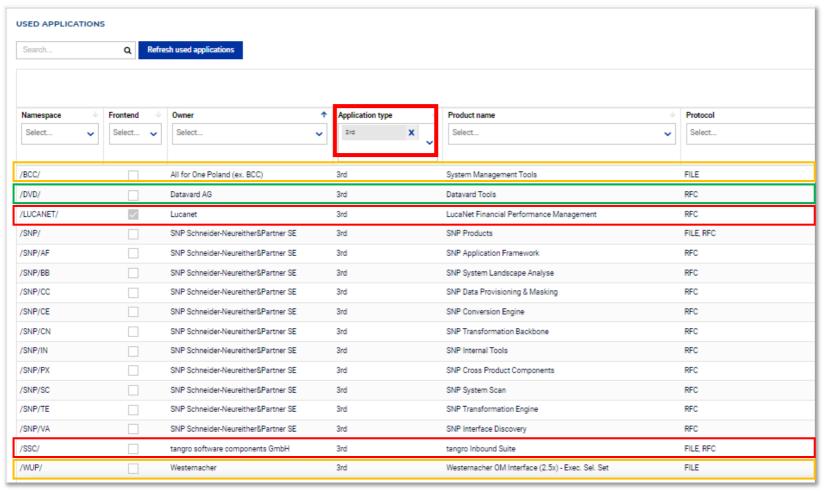
Application 9	Server						
		Basic			✓ Optimal		
Name	B	D8as v4			D16as v4		
SAPS		12.088			24.175		
vCPU		8			16		
RAM		32 GiB			64 gib		
Disk		512	512 giB		512 GiB		
Three Years Reservation		418,32 \$			523,74 \$		
One Year Reservation		489,76 \$			654,60 \$		
Pay-As-You-Go		784,80 \$		1.065,12 \$			
HANA Datab	ase Server						
		Bas	sic	•	Optimal 🛕		
Name		M32Is		M64ls			
vCPU	32		2	64			
RAM		256 бів			512 giB		
Disk		1.792	1.792 GiB <b>❸</b>		2.560 <b>GiB 1</b>		
Three Years Re	servation	961,	961,31 \$ 1.573,69 \$		1.573,69 \$		
	vation	1.592,73 \$ 2.753,02 \$		2.753,02 \$			
One Year Reser		2.663,40 \$		4.619,02 \$			

Overview of Reports

- Analysis of different areas like
  - Content Repositories
  - RFC staging / runtime checks
  - Security aspects (e.g., https/SNC usage)
- Analysis of identified traffic
  - Quantitative figures (connections, calls, volumes)
  - Connections from/to non-SAP Systems
  - Connections from/to non-production Systems
  - Interfaces by User / Caller
- 3rd party products in use

- Cloud Readiness (technical)
  - File interfaces (including LSMW)
  - Review of In- / Outbound traffic
  - Checklists for configuration adaptions
- Interface Inventory
  - Interfaces by Protocol
  - Interfaces by User
  - Interfaces by Caller
  - Interfaces by Business Area

3<sup>rd</sup> Party Products Usage and Impacts



To be decommissioned

New implementation

Frontend application → adaptions on each frontend

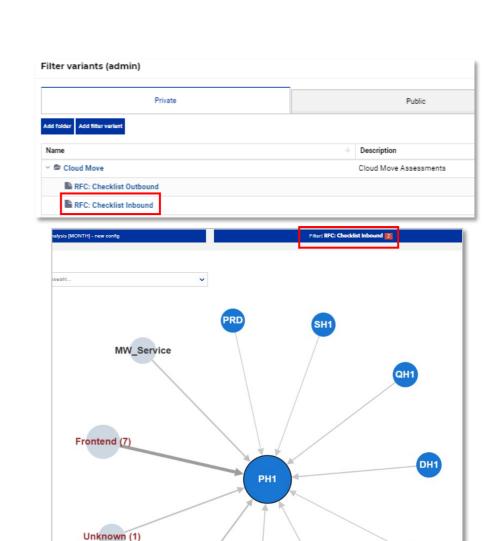
Upgrade of scan server and SAP backend required To be decommissioned

# **Examples from SNP-internal Project**

### Checklist for Inbound RFC Configuration

#### PH1 RFC Checklist Inbound.xlsx

Sender	Destination	Subtyne	Category	lisage	Location	Purpose
DC7	IFS PH1 COLLECT	3	Service	Dev	Local	Tech
_	PH1 100	3	0011100	Dev	Local	Арр
	SNP TB PH1 100	3		Dev	Local	Арр
	PH1 100	3		Dev	Local	Арр
ImageServer		Т		Prod	Local	Tech
	{525781c5-5da4-42cd-bdf5-480a7e647819:EnvironmentEntry}25	Т		Test	Local	Tech
MW Serv T	{2b3e42c9-ca0d-481b-8747-4134c3c5a376:EnvironmentEntry}25	Т		Test	Local	Tech
MW_Serv_T	{For_SAP_Connection_Test:EnvironmentEntry}0	T		Test	Local	Tech
MW_Serv_T	{1363e2db-5bca-422f-8879-e41bcee797fa:EnvironmentEntry}37	T		Test	Local	Tech
MW_Service	{caae27d8-8468-4fc3-bf53-cafad0a6ed64:EnvironmentEntry}25	T		Prod	Local	Tech
MW_Service	{bdd16a5a-cb16-43bf-8128-d953820edcf2:EnvironmentEntry}0	Т		Prod	Local	Tech
MW_Service	{2b3e42c9-ca0d-481b-8747-4134c3c5a376:EnvironmentEntry}0	Т		Prod	Local	Tech
MW_Service	{59731de3-bbd1-49eb-a5cc-e412b1fd9edb:EnvironmentEntry}25	T		Prod	Local	Tech
MW_Service	{1363e2db-5bca-422f-8879-e41bcee797fa:EnvironmentEntry}0	T		Prod	Local	Tech
MW_Service	{b0ebfad0-704a-4fe1-8bec-f6c335412a95:EnvironmentEntry}0	T		Prod	Local	Tech
MW_Service	{1363e2db-5bca-422f-8879-e41bcee797fa:EnvironmentEntry}0	T		Prod	Local	Tech
MW_Service	{b0ebfad0-704a-4fe1-8bec-f6c335412a95:EnvironmentEntry}0	T		Prod	Local	Tech
MW_Service	{59731de3-bbd1-49eb-a5cc-e412b1fd9edb:EnvironmentEntry}25	T		Prod	Local	Tech
MW_Service	{caae27d8-8468-4fc3-bf53-cafad0a6ed64:EnvironmentEntry}0	T		Prod	Local	Tech
PRD	SNPPROD_PH1_100_XX	3		Prod	Local	Tech
QH1	SNP_TB_PH1_100	3		Test	Local	Арр
QH1	PH1_100	3		Test	Local	Арр
SH1	WORKFLOW_REFERENCE_100	3		Sand	Local	Арр
SNP002NB020	snp0130_P	T	Frontend	Prod	BUKRS 002	Frontend
SNP002NB057	PH1	3	Frontend	Prod	BUKRS 002	Frontend
snp002nb159	snp0130_P	T	Frontend	Prod	BUKRS 002	Frontend
SNP011NB294	BWL_PH1	T	Frontend	Prod	BUKRS 011	Frontend
SNP012NB011	PH1	3	Frontend	Prod	BUKRS 012	Frontend
SNP014NB004	snp0130_P	T	Frontend	Prod	BUKRS 014	Frontend



MW\_Serv\_T

ImageServe...

?snp0134

#### RISE with SAP: Cloud Move to Azure

In mid-June 2022, we successfully moved our production SAP S/4HANA system to the Azure cloud as part of "RISE with SAP."

**CrystalBridge Interface Discovery** gave us confidence that nothing was overlooked. In addition to providing a complete view of all interfaces, the automatically generated cutover checklists also helped us to work through all the relevant configuration settings and enabled smooth operation after the go-live.



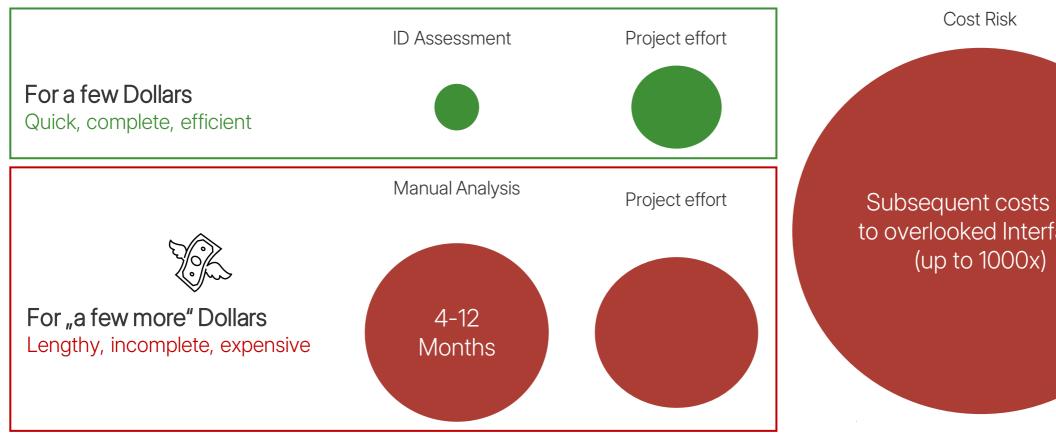


**Matthias Schirner**, Manager Global Internal SAP, SNP Group Project Lead RISE with SAP





### Interface Discovery vs. Manual Procedure

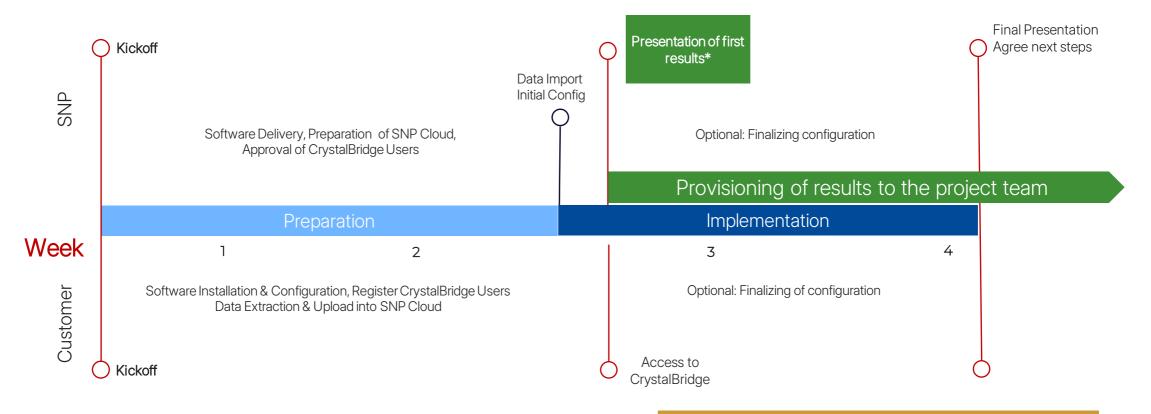


Subsequent costs due to overlooked Interfaces

## **Typical Assessment Project**

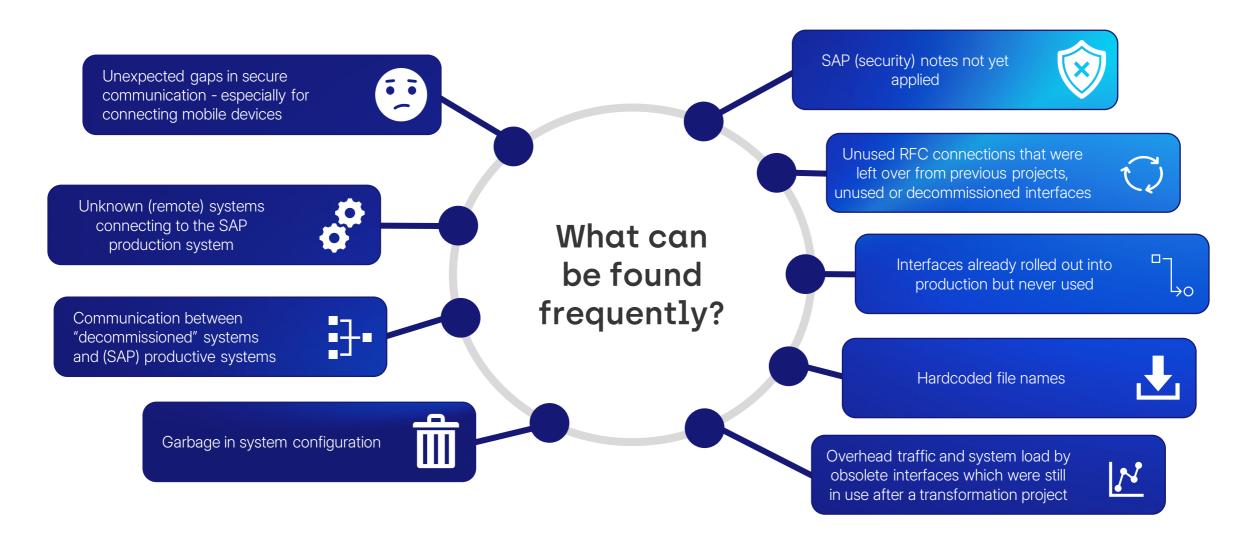
#### Assessment Scope:

- Analysis period: 2-3 months
- 1 Analysis system (or more)
- Optional: File Interfaces, SAP PI/PO

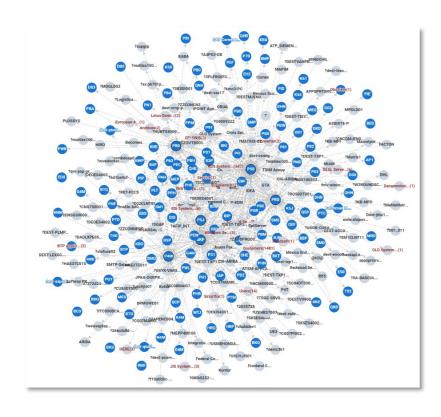


\*in urgent cases: results can be delivered "overnight"

## Interface Discovery – Typical "Findings"



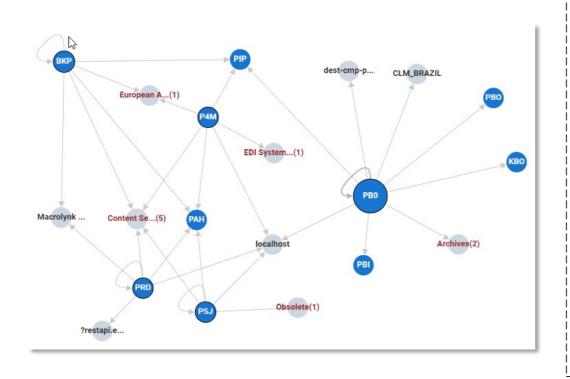
## Interface Analysis Example: Unused Interfaces



#### Scenarios

- Analyze reasons, e.g.
  - Lack of training?
  - Implemented functionality not needed?
  - Problems in end-to-end connectivity / process integration?
- Test Management
  - Focus tests on high frequently used interfaces, e.g. after upgrades/patches
- System Cleanup
  - Decommission unused interfaces
  - Remove obsolete configuration

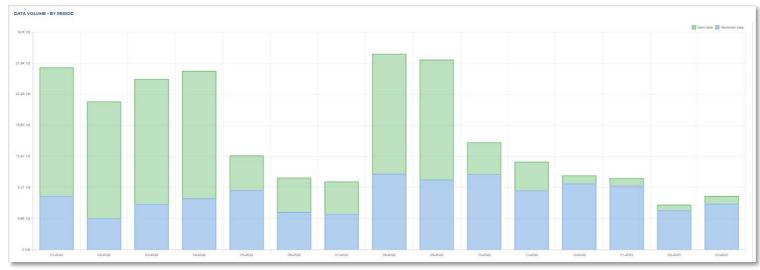
### Interface Analysis Example: Insecure Interfaces

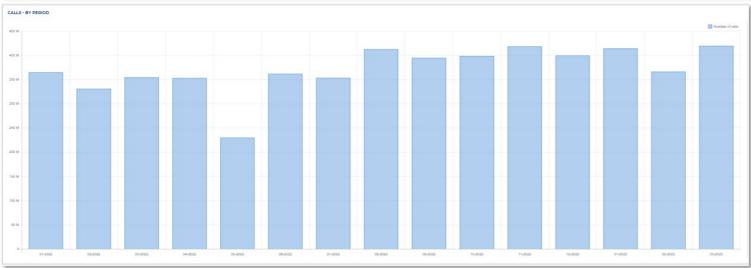


#### **Scenarios**

- Analyze potential impacts
  - Affected interfaces and sensitivity?
  - Are all affected interfaces known / are some unexpeted or unwanted?
  - Analyze callers and involved users
- Analyze reasons, e.g.
  - Gaps in HTTPimplementation: internal and/or external communication affected?
  - Errors / defects in technical configuration?
  - Analyze improper implementation of requirements
- Security / Compliance / Audit
  - Analyze risks associated with missing encryption
  - Analyze deviations from compliance regulations / procedures
  - Analyze deviation from audit requirements

### Interface Analysis Example: Data Volume / Call Statistics



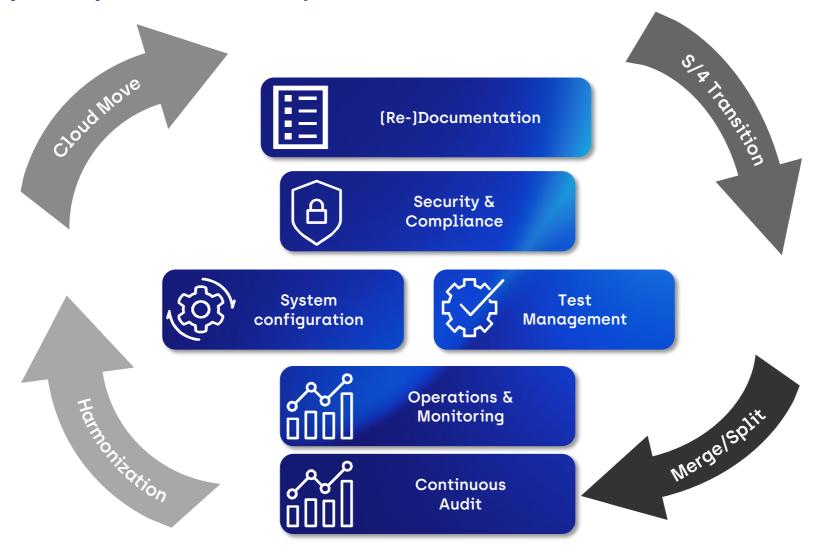


#### Scenarios

- Analyze Statistical Data
  - Bandwidth requirements changing?
  - Unusual deviations identified?
  - Implemented optimizations getting effective?
  - Increasing/decreasing or periodic business?
- Infrastructure / Operations Planning
  - Analyze resource requirements

#### **Use Cases Overview**

Support Day-to-day Business and Projects



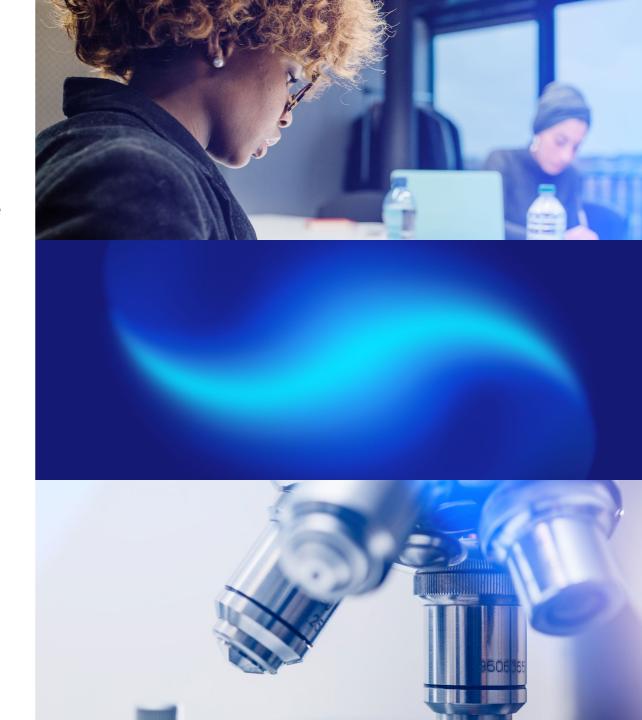
### **Interface Discovery Benefits**

#### FOR (CLOUD MOVE) PROJECTS

- Discovery of all interfaces of project-relevant systems –
  in a very short time, if necessary, also shortly before go-live
- Safeguarding: Avoid unpleasant, costly surprises during or after the golive
- Cost savings: reduce "trial & error" test cycles, support cutover planning, avoid costly outages after go-live
- Seamless switch to continuous usage

#### AS INTEGRAL PART OF INTERFACE MANAGEMENT

- Automated and determination of changes in the interface landscape and their use
- Facilitated documentation
- Support Security, Compliance and Audits
- Continuous support in day-to-day business



# Thank you

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