

Lifecycle Management

Leveraging customized reports and Integration API

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Enterprise Architect

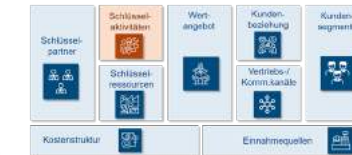
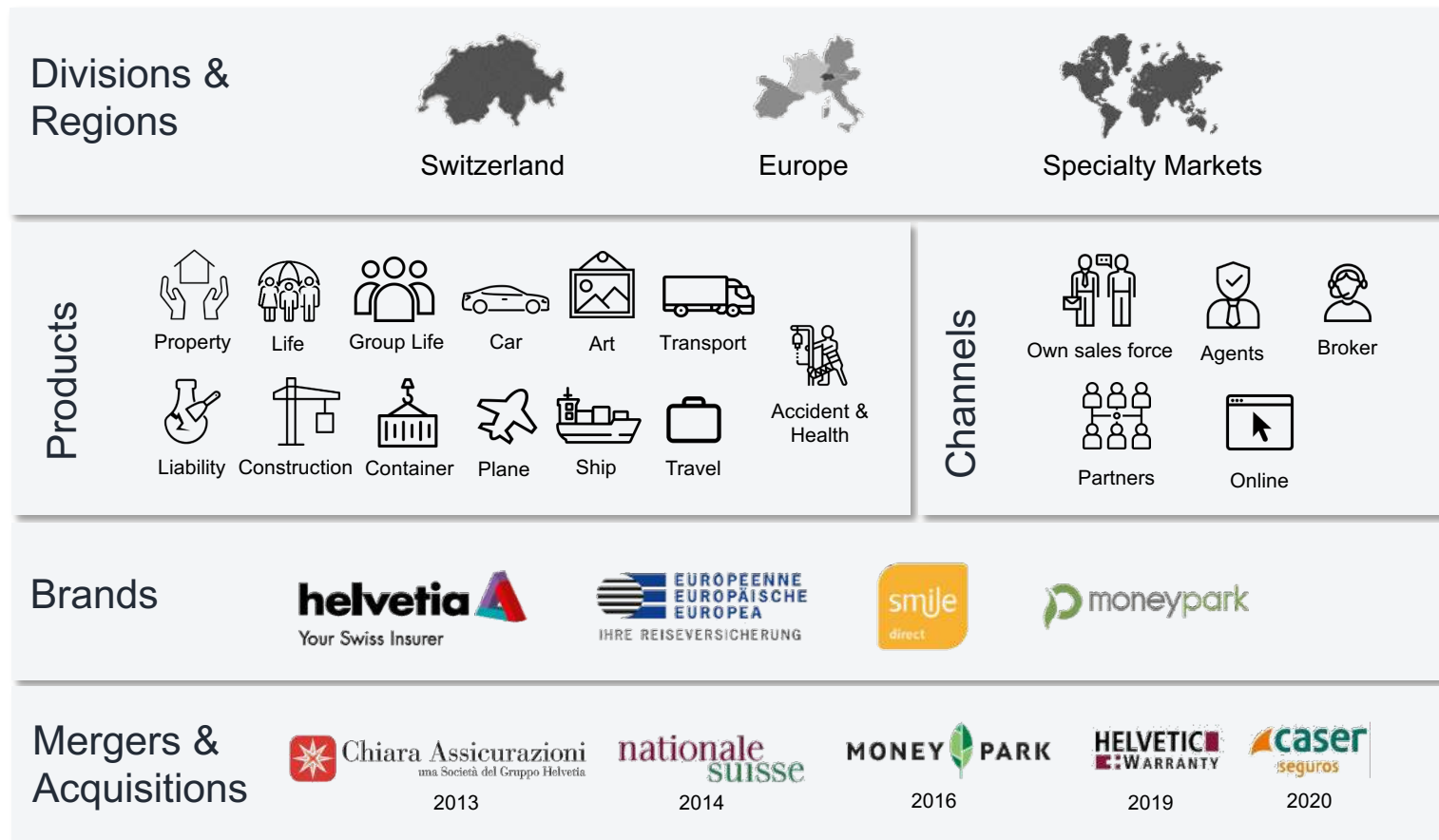
Helvetia Insurance
Bonn, 02.09.2020

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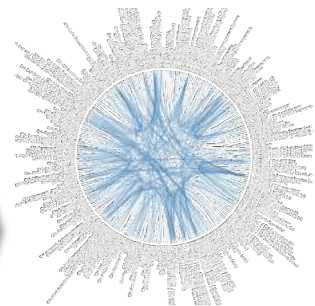
Helvetia Introduction

The Case for Enterprise Architecture Management

Helvetia is a **Swiss** all-lines insurer (Top 3) with business in **four European countries** and in **selected niche markets worldwide (Specialty Markets)**.



Business
Model
Complexity



IT Landscape
Complexity

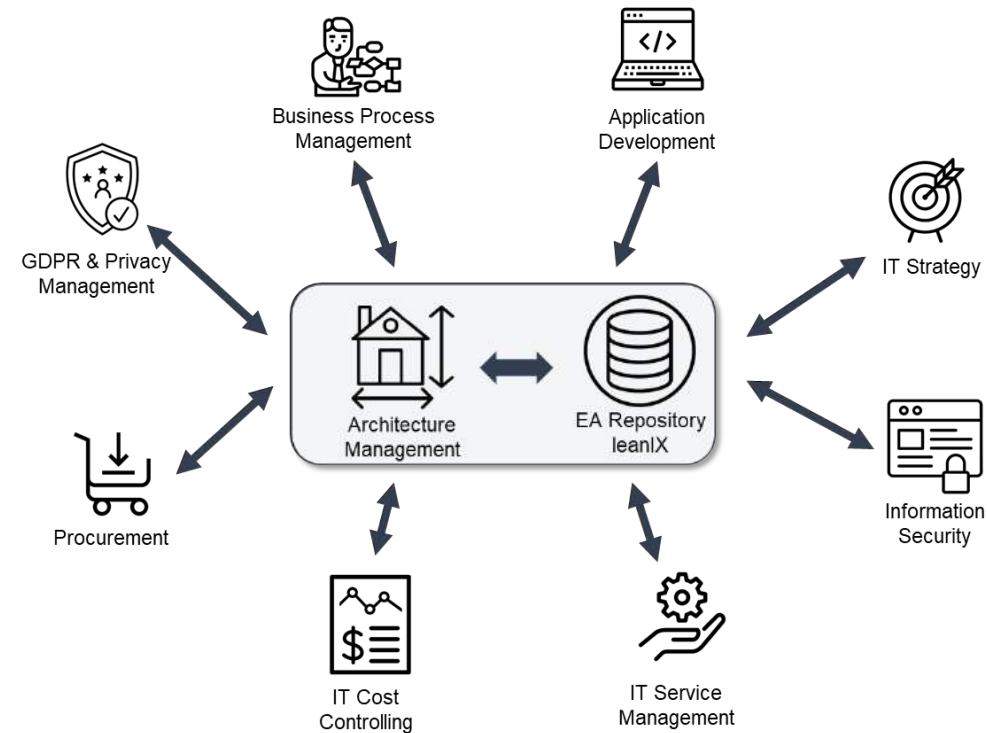
Enterprise Architecture
Management

Helvetia Introduction

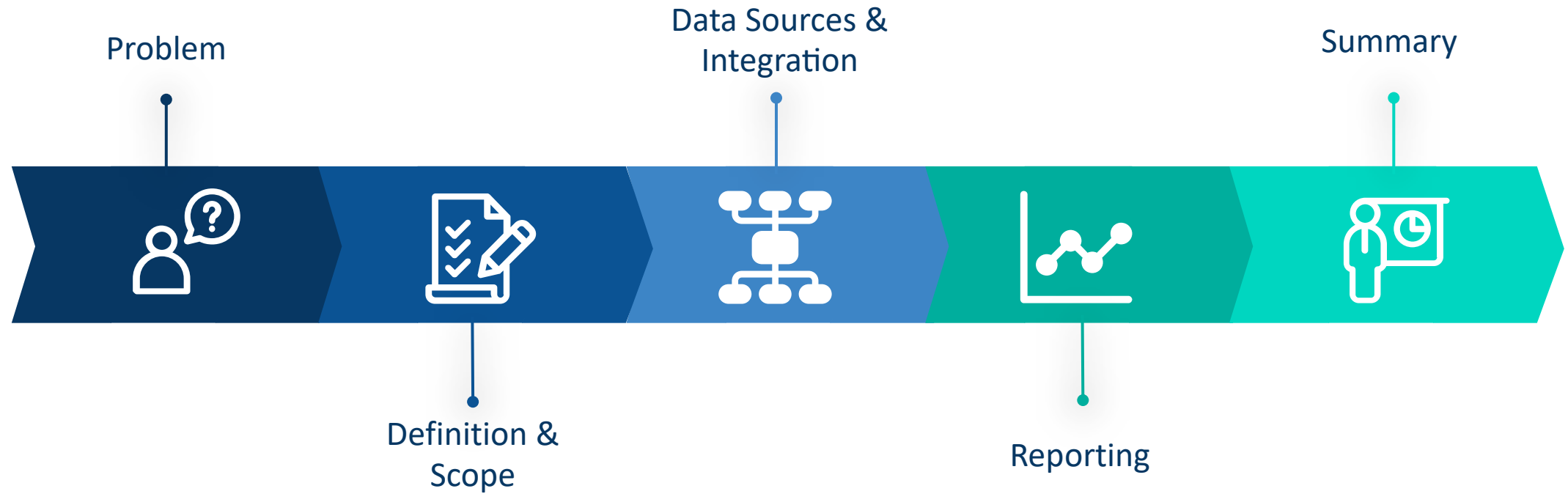
LeanIX Customer since 6/2014

IT Landscape footprint

Domain	21
Biz. Capability	157
Process	123
Business Area	76
Project	680
Application	1592
Interface	1871
Information Object	229
IT Component	850
Provider	411
Tech. Domain	40
Report	3



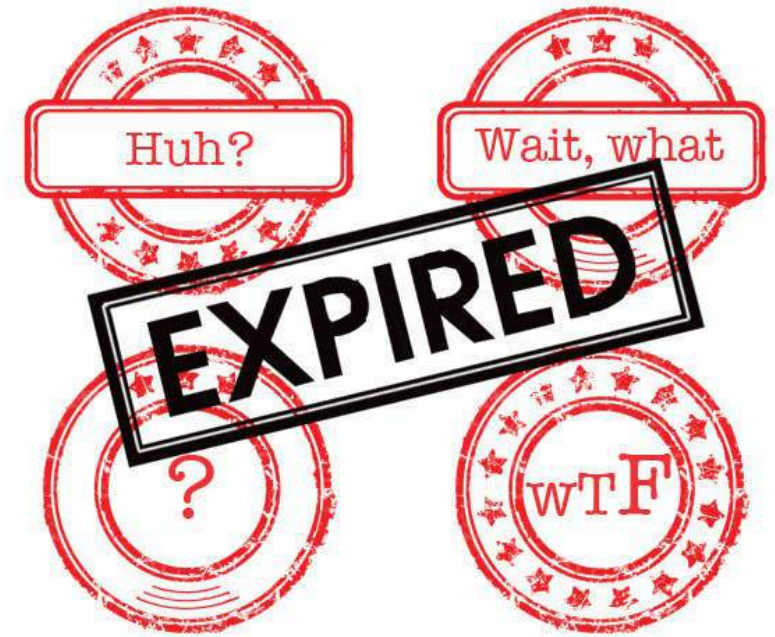
Agenda





What is Lifecycle Management?

The Expiration Date of IT Components





What is Lifecycle Management?

Focus & Goals

Monitoring the technical lifecycles of applications, based on the underlying IT components with focus on end-of-life

Goals:

- Increase landscape transparency
- Support landscape planning
- Increase risk awareness
- Input for budget planning

Typical Lifecycle Stages

Different Lifecycles for Apps & Components



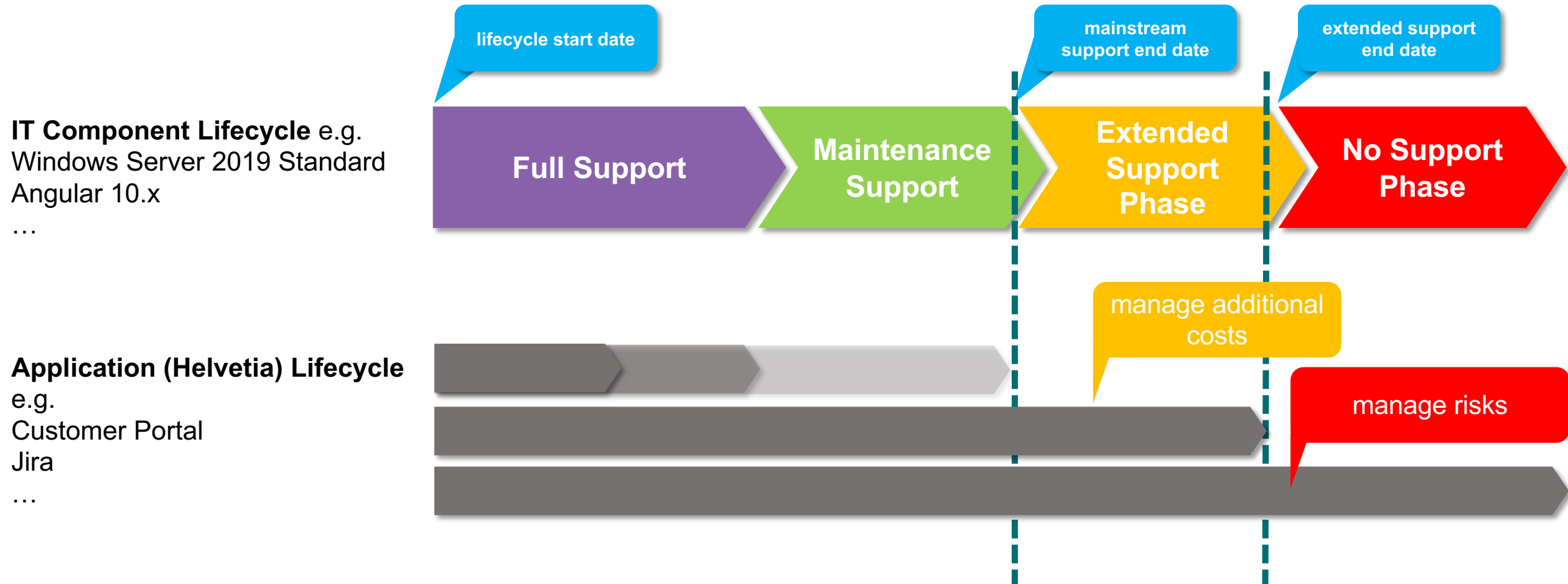
IT Component Lifecycle e.g.
Windows Server 2019 Standard
Angular 10.x
...





Typical Lifecycle Stages

Different Lifecycles for Apps & Components



Component & Version Scope

The Ops Responsibility Defines the Tracking Scope



In-house development	Standard software	IaaS	PaaS	SaaS
Application	Application	Application	Application	Application
Middleware	Middleware	Middleware	Middleware	Middleware
Runtime	Runtime	Runtime	Runtime	Runtime
Database	Database	Database	Database	Database
OS/Container	OS/Container	OS/Container	OS/Container	OS/Container

Lifecycle Management

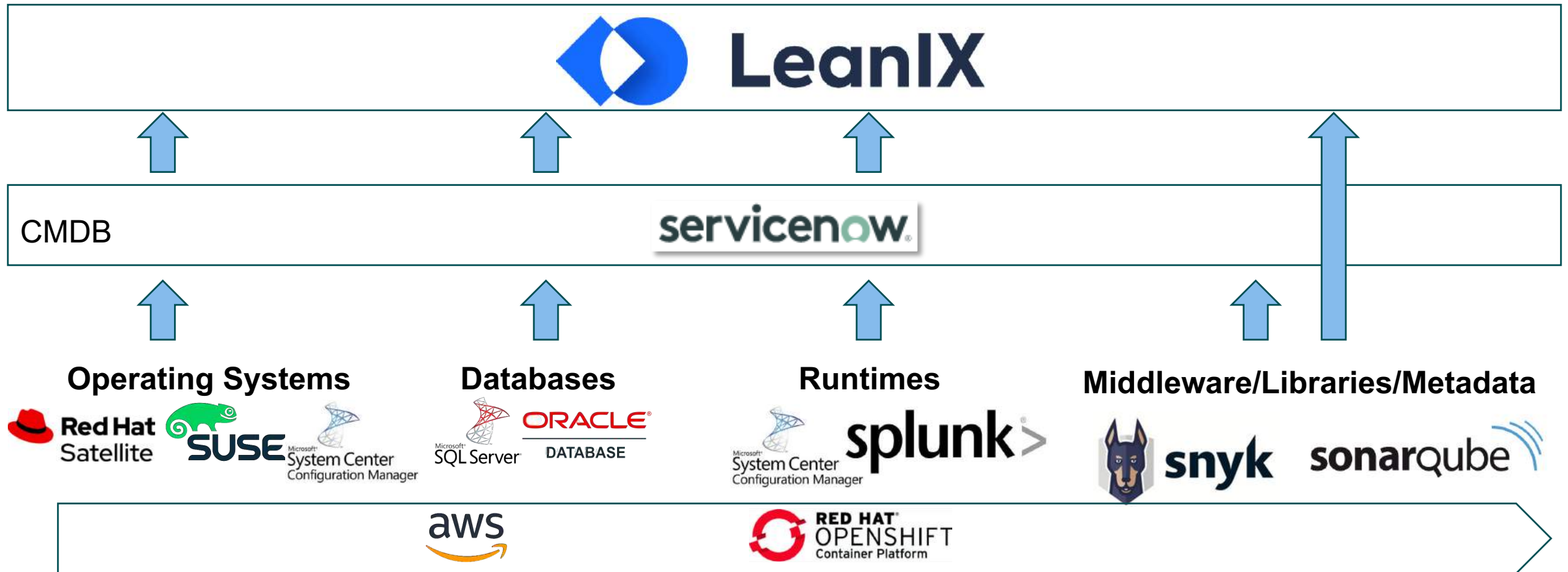
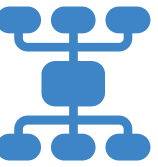
Semantic Versioning: **MAJOR.MINOR.PATCH**

Patching & Hardening



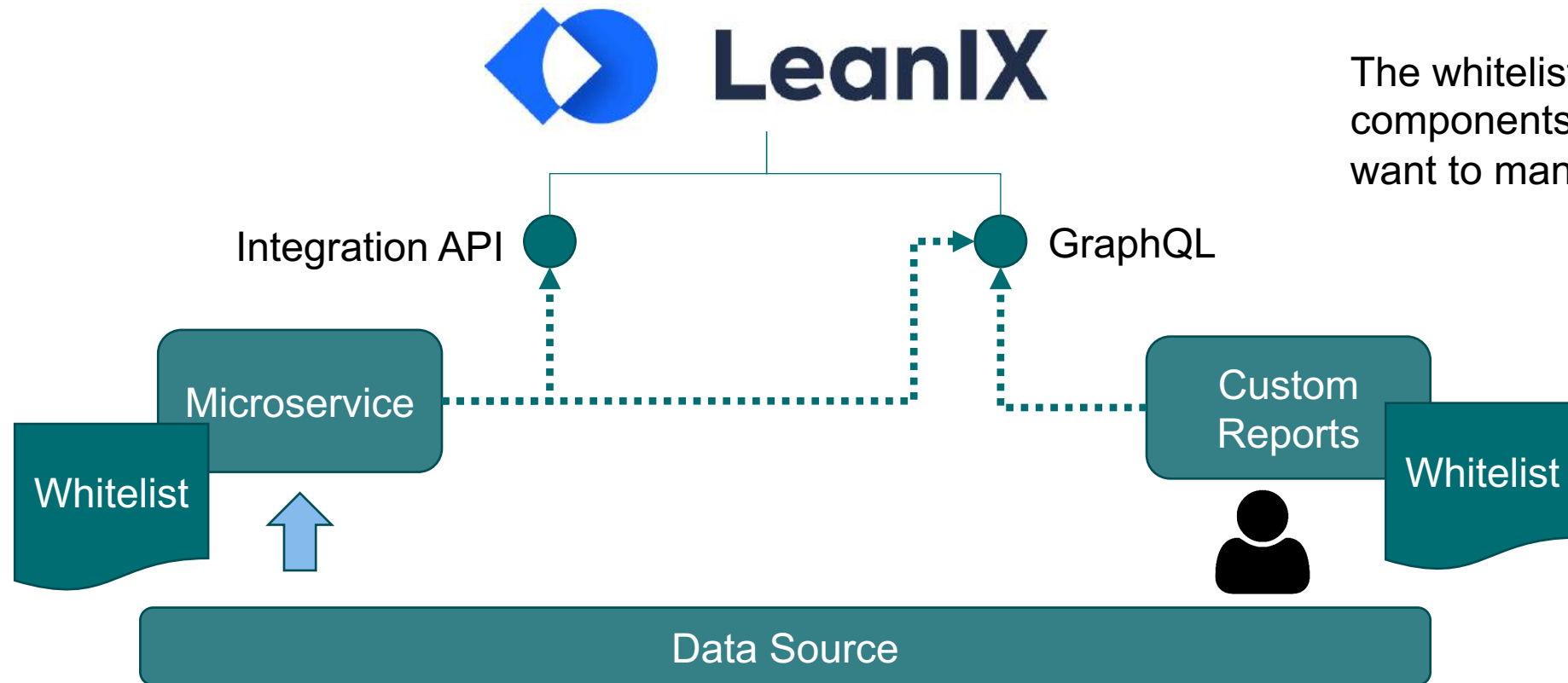
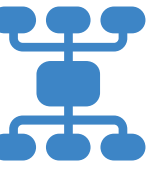
Data Sources

Redirect Data to the Architecture Repository

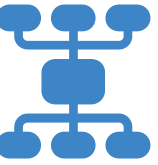


Integration

Whitelisting Required Components

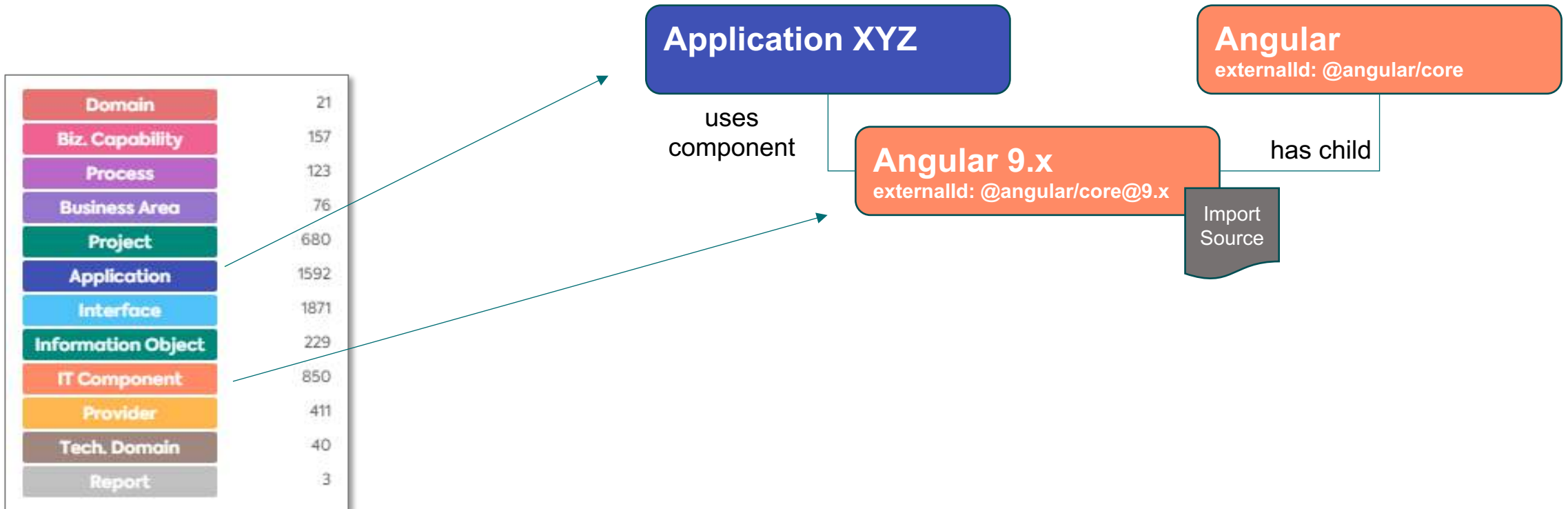


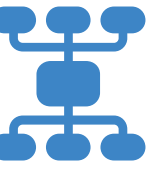
The whitelist defines the components that we want to manage



Import Procedure

IT Components have a Hierarchy too





Import Procedure

Tags Help to Identify Obsolete Relations

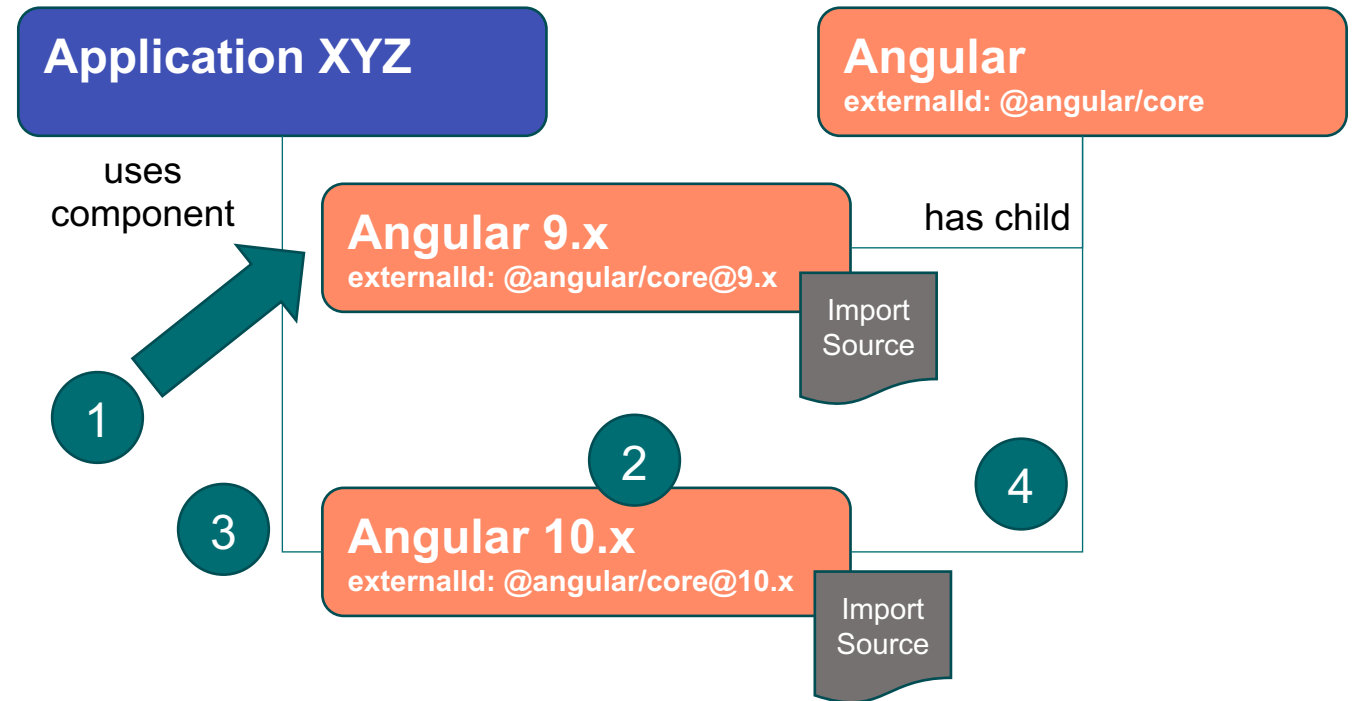
Four steps to update LeanIX

1. Delete relation application - component
2. Create component (if it does not exist already)
3. Relate application - component
4. Relate component - component

Delete Relation

The deletion of the relation is controlled by a tag.

e.g. CMDB: Operating System
Snyk: Dependencies



Custom Import Report

Manual Upload for some Use Cases



xlxs

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Lifecycle
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Application Roadmap
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CITO Standard
IT Component Landscape
Viewed 8 months ago

Application Portfolio
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Application Roadmap
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Choose File

cmdb_rel_ci (15).xlsx

If your report does not load, there might be a security issue. Open the following link to check: <https://localhost:8080?v=7a9da4dcdf1&reportId=dev&bookmark=default>

Name	APP-ID	OS
CommVault Backup	93624533-3de4-45fa-8bf7-4058abd1a8d8	10.0.14393, 6.3.9600, 10.0.17763,
Compass	8324bf52-38d9-4c89-a4d4-ac6b71c620ef	Red Hat Enterprise Linux Server 7.8, SUSE Linux Enterprise Server 11,
Compuware Enterprise Service	28c7c686-5270-42cd-938d-5127c2993bf3	6.1.7601,
Contact Center - Agent Peripheral Gateway	6da84a6b-289a-4231-9c85-731388d09505	6.3.9600,
COR-Office (NAG)	6f910b08-b11e-4637-955e-b828645ab2f9	10.0.14393,

< 1 2 3 4 5 6 >

Name	componentID	LeanIX Name
SUSE Linux Enterprise Server 11		
6.3.9600		
10.0.14393		
6.0.6003		
10.0.17763		
6.1.7601		
Red Hat Enterprise Linux Server 7.8		
SUSE Linux Enterprise Server 12	fe15ecde-56c4-4f0b-9108-fe0b384d45ad	SUSE Linux Enterprise Server 12 SP3
Red Hat Enterprise Linux 8.2		
Other 2.6.x Linux (64-bit)		

< 1 2 3

Content Summary

Mapping

Start Import

Application Lifecycle View

Custom Report



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lifecycle

Further information like descriptions can be found at <https://wiki.helvetia.group/x/e6uNCw> (right click, open in new tab/window)

Dashboard Application Lifecycle View Component Lifecycle View Component Status View Component Dependency View Matrix

CF x CH x validated components: ☒

Name	IT Ressort	Lifecycle (based on used components)	Current status	sourcing	Business Criticality
CF-3Scale API Mgt	not assigned	2018 2019 2020 2021 2022 2023	no lifecycle	paas	
CF-ACD - Automatic Call Distribution (VOIP)	I&O	2018 2019 2020 2021 2022 2023	no lifecycle	internalHosting	
- CF-ADDACTIS	CITS	2018 2019 2020 2021 2022 2023	end of life	internalHosting	Mission critical
Microsoft SQL Server 2008		2018 2019 2020 2021 2022 2023	end of life		
Microsoft Windows Server 2012 Enterprise Ed.		2018 2019 2020 2021 2022 2023	phase out		
+ CF-ADDACTIS IBNRS	CITS	2018 2019 2020 2021 2022 2023	end of life	internalHosting	Mission critical
+ CF-ADDACTIS Modelling	CITS	2018 2019 2020 2021 2022 2023	end of life	internalHosting	Mission critical
+ CF-ADDACTIS Workflow	CITS	2018 2019 2020 2021 2022 2023	end of life	internalHosting	Mission critical
CF-AWS Cloud Platform	I&O	2018 2019 2020 2021 2022 2023	no lifecycle	paas	
CF-AXCO Insurance Information (ext.)	BIZ	2018 2019 2020 2021 2022 2023	no lifecycle	saas	
+ CF-AccessProxy	CSS	2018 2019 2020 2021 2022 2023	end of life	internalHosting	
+ CF-Across	BIZ	2018 2019 2020 2021 2022 2023	phase out	internalHosting	Business operational
+ CF-Active Directory (AD)	I&O	2018 2019 2020 2021 2022 2023	phase out	internalHosting	
CF-Admin Workstation & Historical Data Server (VOIP)	I&O	2018 2019 2020 2021 2022 2023	no lifecycle	internalHosting	
CF-Adobe AEM Forms (WCF)	FES	2018 2019 2020 2021 2022 2023	no lifecycle	internalHosting	
CF-Adobe Experience Manager (AEM)	FES	2018 2019 2020 2021 2022 2023	no lifecycle	internalHosting	Mission critical
CF-Allegro (Confluence)	I&O	2018 2019 2020 2021 2022 2023	no lifecycle	internalHosting	Mission critical
+ CF-App Connect Enterprise (ACE)	D&A	2018 2019 2020 2021 2022 2023	active	internalHosting	Business critical
CF-Application Root Cause Analytics	CSS	2018 2019 2020 2021 2022 2023	no lifecycle	internalHosting	
CF-Appio	ITSM	2018 2019 2020 2021 2022 2023	no lifecycle	saas	
CF-Architecture Decision Log	AM	2018 2019 2020 2021 2022 2023	no lifecycle	internalHosting	
CF-Atlas DBaaS	FES	2018 2019 2020 2021 2022 2023	no lifecycle	paas	

IT Component Lifecycle View Custom Report



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Reports Filter lifecycle

All Report Types

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Manage Reports

Further information like descriptions can be found at <https://wiki.helvetia.group/x/e6uNCw> (right click, open in new tab/window)

Dashboard Application Lifecycle View **Component Lifecycle View** Component Status View Component Dependency View

validated components: ☒

Name	component lifecycle phase	Tech. Domain	application lifecycles state			
			no life cycle	active	phase out	end of life
Oracle Database Enterprise Edition 12.1	active	Infrastructure Components / Database	19	114	13	12
Red Hat JBoss EAP 7	phase out	Development Components / Application Development / Middleware	24	57	2	0
Microsoft Windows Server 2012 R2 Standard	phase out	Infrastructure Components / Server OS	0	40	5	1
Red Hat Open Java Development Kit 11	active	Development Components / Programming Languages	25	23	0	0
Microsoft Windows Server 2012 Enterprise Ed.	phase out	Infrastructure Components / Server OS	0	21	0	0
Red Hat Enterprise Linux 7	active	Infrastructure Components / Server OS	2	17	0	1
Microsoft Windows Server Standard 2016	active	Infrastructure Components / Server OS	3	16	0	0
IBM ConnectDirect	active	Development Components / Application Development / Middleware	0	13	1	1
IBM IMS Database 14	active	Infrastructure Components / Database	0	7	1	0
Apache HTTP Server 2.4	active	Development Components / Application Development / Middleware	0	4	0	2
IBM MQ 9	active	Infrastructure Components / Integration	0	3	0	0
Microsoft SQL Server 2016 Enterprise Edition SP2	active	Infrastructure Components / Database	0	3	0	0
JavaServer Faces 2.3	active	Development Components / Application Development / Presentation Layer	0	2	0	0
Microsoft Internet Information Services 8.5	active	Development Components / Application Development / Middleware	0	2	0	0
Red Hat Open Java Development Kit 8	active	Development Components / Programming Languages	0	2	0	0

Identify the lifecycle of the it components and how often it is used in applications

IT Component Phase Change View

Custom Report



helvetia **Dashboard** **Inventory** **Reports** **Diagrams**

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Dashboard Application Lifecycle View Component Lifecycle View **Component Status**

validated components: ☒

2020-01-01 ~ 2020-09-30

Name	component lifecycle phase today(20.08.2020)	component lifecycle phase change between 01.01.2020 and 30.09.2020	
		from	to
Camunda BPM 7.10	end of life	active	end of life
Google Angular 7	end of life	phase out	end of life
Google Angular Material 7	end of life	phase out	end of life
IBM DB2 Workgroup Server Edition (LUW) 10.5	end of life	active	end of life
Microsoft Windows Server 2008 Enterprise Ed. SP 2	end of life	phase out	end of life
Microsoft Windows Server 2008 Standard Ed. SP 2	end of life	phase out	end of life
Red Hat Enterprise Linux 7	active	active	phase out
Red Hat JBoss EAP 7	phase out	active	phase out

Identify the phase changes of IT components for a defined time frame

IT Component Criticality Custom Report



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Reports Filter << lifecycle

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Dashboard Application Lifecycle View Component Lifecycle View Component Status View **Component Dependency View** Matrix

validated components: ☒

Name	component lifecycle phase	Business criticality				
		no criticality	Administrative service	Business operational	Business critical	Mission critical
Oracle Database Enterprise Edition 12.1	active	96	1	5	3	53
SUSE SuSE Enterprise Linux 11 SP4	end of life	151	1	5	7	29
Red Hat JBoss EAP 7	phase out	53	0	2	1	27
Oracle Java Runtime Environment 8	end of life	32	0	3	5	26
Red Hat JBoss EAP 6	end of life	34	0	2	8	19
Red Hat Open Java Development Kit 11	active	25	0	2	2	19
Microsoft Windows Server 2008 Standard Ed. SP 2	end of life	28	2	0	4	16
Microsoft Windows Server 2012 R2 Standard	phase out	27	0	2	2	15
Google Angular 6	end of life	6	0	3	2	11
Microsoft SQL Server 2008	end of life	8	0	2	5	11
Microsoft Windows Server 2012 Enterprise Ed.	phase out	9	0	1	1	10
IBM Connect:Direct	active	5	0	0	3	7
Microsoft Windows Server 2008 Enterprise Ed. SP 2	end of life	18	0	2	4	7
IBM DB2 Workgroup Server Edition (LUW) 10.5	end of life	14	0	6	4	6
IBM IMS Database 14	active	3	0	0	0	5

Identify the importance of the IT component based on the criticality of the application that uses it

Custom Report Stack

Ingredients



UI Framework



Ant Design

web application
framework



React

Code



TypeScript

Library/CLI

@leanix/reporting

Summary



- Define the scope and use cases for the Lifecycle Management
- Lifecycle Management is a widely used term, sometimes a wildcard for *.*
- > 80% of time will be identifying data sources, artefacts and finding ways for mapping
- Automatize the "data entry" as much as possible – manual data entry will lead to obsolete information
- Find alliances!
- Be patient!