FrieslandCampina's Adoption of SAP Private Link for Enhanced Communication Security

Hiren Asher, Royal FrieslandCampina

SAPinsider
2023

SAPinsider

Story Line

- About Royal FrieslandCampina

- Challenges & Focal point

- Our North Star – Architecture

- Private Link
  - Problem Statement/Challenges(Tech)
  - How did we approach
  - Benefits

- Key Points to take home

- Where to find more information

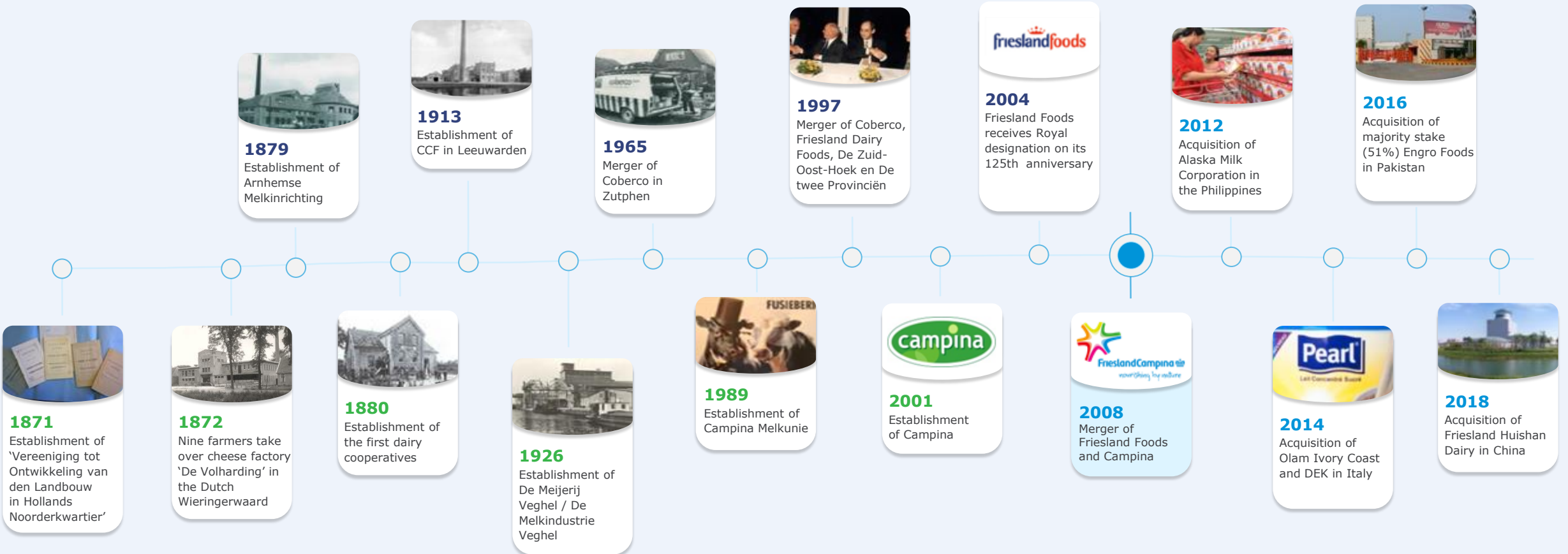# Raise your hand… if you like Chocomel

About Royal FrieslandCampina

Our cooperative heritage inspires us to continuously improve

We are proud of our history, which dates back to 1871, when a few Dutch farmers decided to combine forces to start up a cheesemaking factory. This small enterprise has grown into one of the world's leading players in the global dairy industry: FrieslandCampina.

150 years of dairy expertise

1879
Establishment of Arnhemse Melkinrichting

1913
Establishment of CCF in Leeuwarden

1965
Merger of Coberco in Zutphen

1997
Merger of Coberco, Friesland Dairy Foods, De Zuid-Oost-Hoek en De twee Provinciën

2004
Friesland Foods receives Royal designation on its 125th anniversary

2012
Acquisition of Alaska Milk Corporation in the Philippines

2016
Acquisition of majority stake (51%) Engro Foods in Pakistan

1871
Establishment of 'Vereeniging tot Ontwikkeling van den Landbouw in Hollands Noorderkwartier'

1872
Nine farmers take over cheese factory 'De Volharding' in the Dutch Wieringerwaard

1880
Establishment of the first dairy cooperatives

1926
Establishment of De Meijerij Veghel / De Melkindustrie Veghel

1989
Establishment of Campina Melkunie

2001
Establishment of Campina

2008
Merger of Friesland Foods and Campina

2014
Acquisition of Olam Ivory Coast and DEK in Italy

2018
Acquisition of Friesland Huishan Dairy in China

FrieslandCampina
nourishing by nature

Our purpose as a starting point

**Better nutrition
for the world**

**A good living
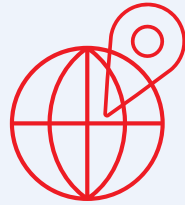for our farmers**

**Now and for
generations to come**

nourishing by nature

FrieslandCampina at a glance

14.1 billion
euros revenue

Facilities in
31 countries

21,715
Employees

15,137
Member dairy farmers

Export to
>100 countries

Every day
millions
of consumers

FrieslandCampina
nourishing by nature

FrieslandCampina
nourishing by nature

Passion
for nutrition

Global

NEDGOLD Milk Powder
Debic
FrieslandCampina Ingredients
Friso
DFE pharma
Friso

America

Europe

Asia

Middle East

Africa

Friesche Vlag · Nutroma · NOYNOY · Fristi · Pöttyös · Chocomel · Holland Master

Campina · Valess · Napolact · Optimel · Parrano · Vifit · Royal Hollandia

YAZOO · Mona · millán vicente · Lattiz · MILNER · Milli

ALASKA · OLPER'S · Tarang · BLACK & WHITE · FRISIAN FLAG · FOREMOST · DUTCH LADY

RAINBOW

Peak · Three Crowns · BONNET ROUGE

Our world is changing across all stakeholders & domains, a big opportunity to become the leading Nutrition Company

Consumer Reach

Customer Engagement

Supply Chain Network

Support Functions

Farmer Life

Technology Developments

Employee & Talent

Planet & Sustainability

Ecosystems, Partners & M&A

Win with Nutrition

Serve the 24/7 Customer & Consumer

Nourishing a Better Planet

Elevate our Essentials

Challenges & Focal Point

Challenges & Focal Point

Data Breach is costly
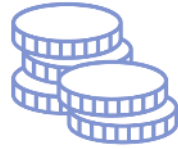
USD $ 4.45 Million

Global average cost of a data breach in 2023
15% increase over last 3 years.

Copy of the IBM report - 2023

Current connectivity solutions are
COMPLEX & UNSATISFYING

Complexity
- Traditionally ways to connect is complex in nature
  - via gateways, NAT devices, s2s peering, ExpressRoute or VPN connections or public IP addresses
- For Royal Frieslandcampina a network peering or gateway set-up, would take on average **2 weeks**
- Additional access controls to be managed via permission or roles

Data exposure in public internet
- Have to setup Public peering or use public endpoint when connecting SAP BTP and hyperscaler account

FrieslandCampina
nourishing by nature

Our North Star – Architecture

How does Technology support our Organization

- FrieslandCampina wants to **accelerate, scale and increase its value** within the business ecosystem, consisting of different stakeholders with different (changing) needs.

- Where shifts in business activities are necessary and important from a business strategy point of view, **technology** should support **any of these needs.**

- To achieve this, six *interdependent* Technology Pillars have been defined, translated to technology capabilities, activities to focus upon and Architecture Principles to implement them.

- The North Star is required to **guide the solutioning** of current and future business and technology priority initiatives

North Star Context

BASE STRATEGY

TECHNOLOGY PILLARS DEEP DIVES

Business Strategy & Context

Technology North Star

Digital Ecosystem

Adaptive Processes

Connected Decisions

BUSINESS DOMAIN DEEP DIVES

Commerce
Consumer Reach & Customer Engagement

Supply Chain
Digital Supply Chain Network

GBS
Support Functions

Sustainability & CA
Farmer Life, Planet & Sustainability

Modular Technology Platform

Secure Foundation

Integrated Business Technology

FrieslandCampina
nourishing by nature

Six Technology Pillars to support any business capability
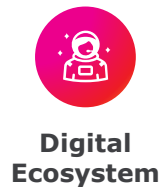
Digital Ecosystem

Enabling a technology ecosystem where farmers, customers, consumers, suppliers and employees have access to processes, data & technology they need.

Modular Technology Platform

Providing a technology platform for managing business processes & data in a cost-effective way (i.e., decoupled, standardized, automated and modular).
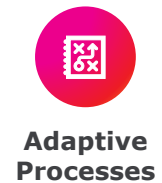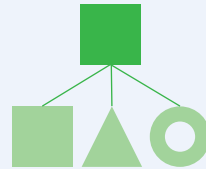
Adaptive Processes

Allowing for core, differentiating and innovative business processes – across all business domains – to run in parallel, depending on business capability needs.

Secure Foundation

Embedding security in everything that's digital, verifying everything and acting when required to reduce exposure to cyber threats.
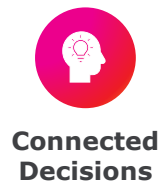
Connected Decisions

Embedding trusted data in every decision, interaction & processes, augmented through advanced analytics & AI to deliver actionable insights.

Integrated Business Technology

Delivering functionality & data through a fit-for-purpose, tailored platform operating model, integrating technology, data & business functions with an automate-first mindset.

FrieslandCampina
nourishing by nature

# Where to Play – Technology & Data Capabilities
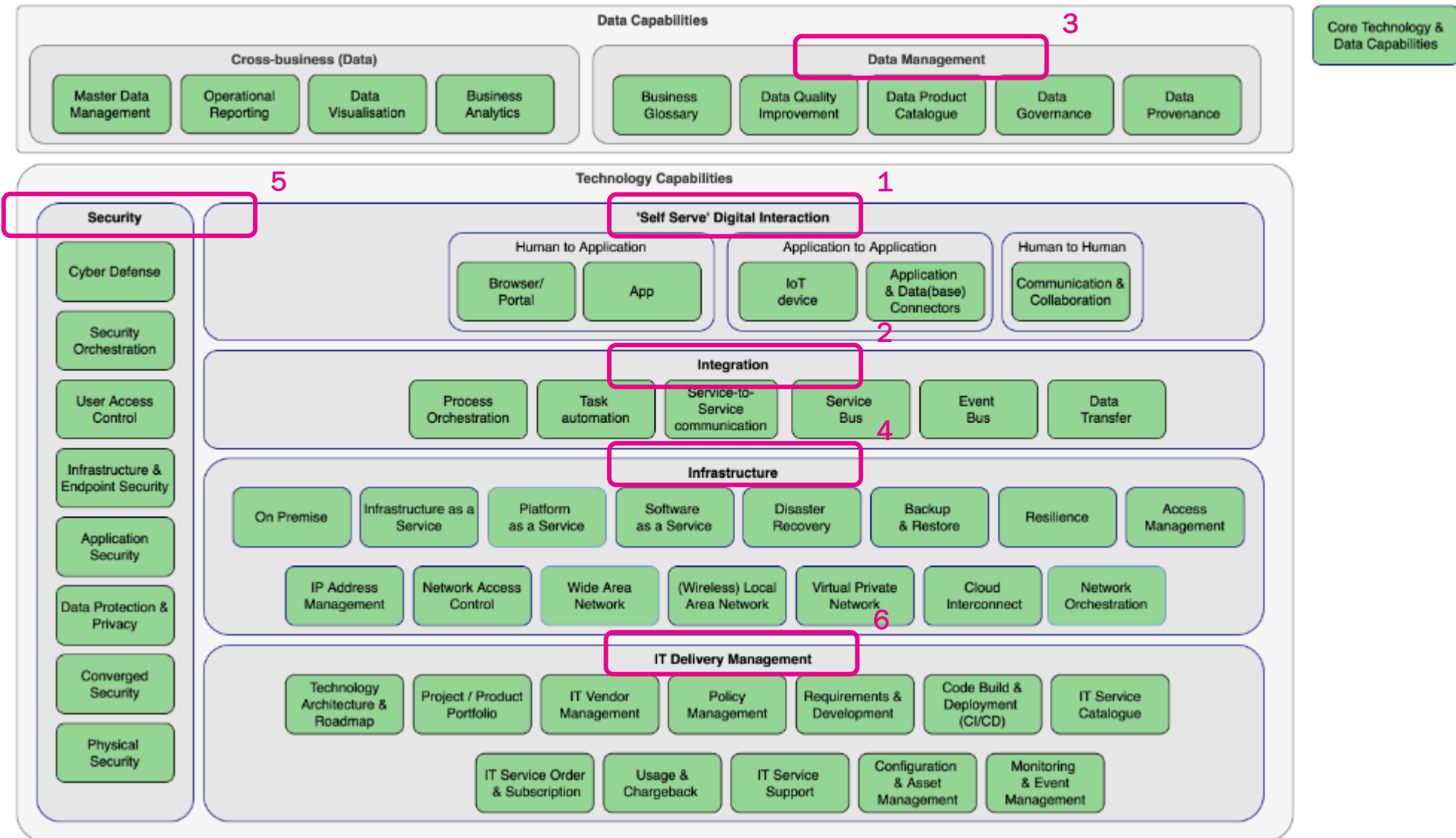
Private Link

Business Scenario

- Communicate between our core backbone systems (SAP) with SaaS application in secure manner

- Availability of the connection should be 24*7 as this is business critical

- Data transfer is with high volume based and should have low latency

- Previously to Private Link we had to use traditional approach via Key usage and whitelisting of IP's

- We had hosting restrictions to services and applications due traditional usage
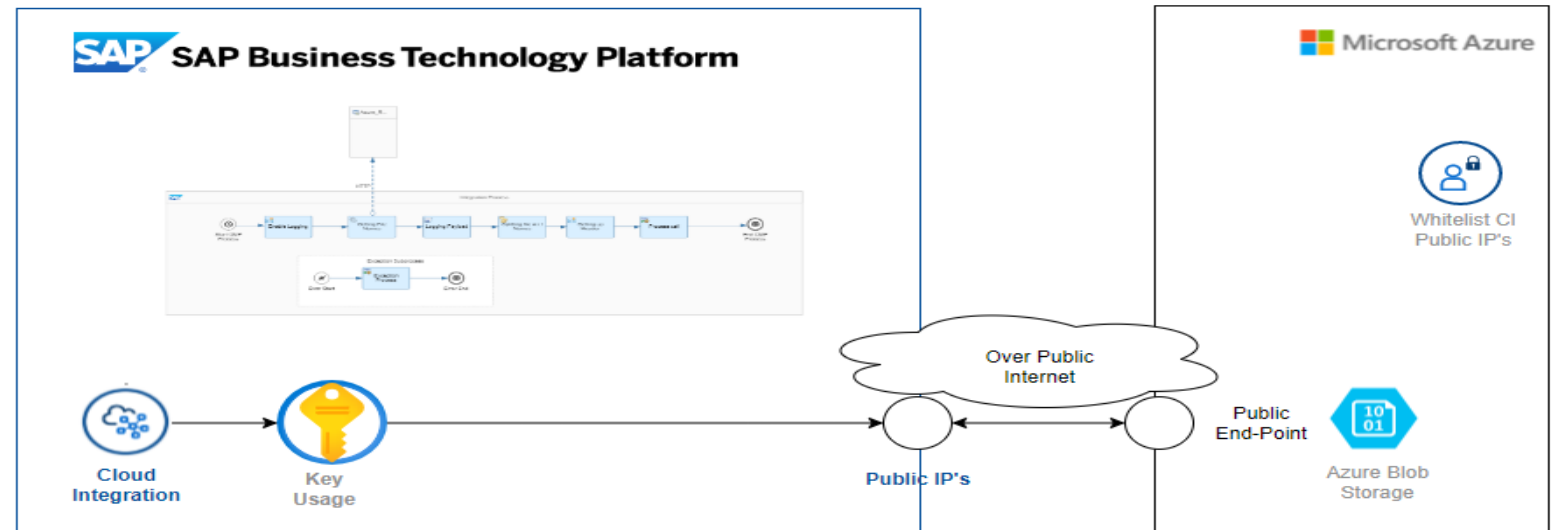
Which Capabilities are impacting
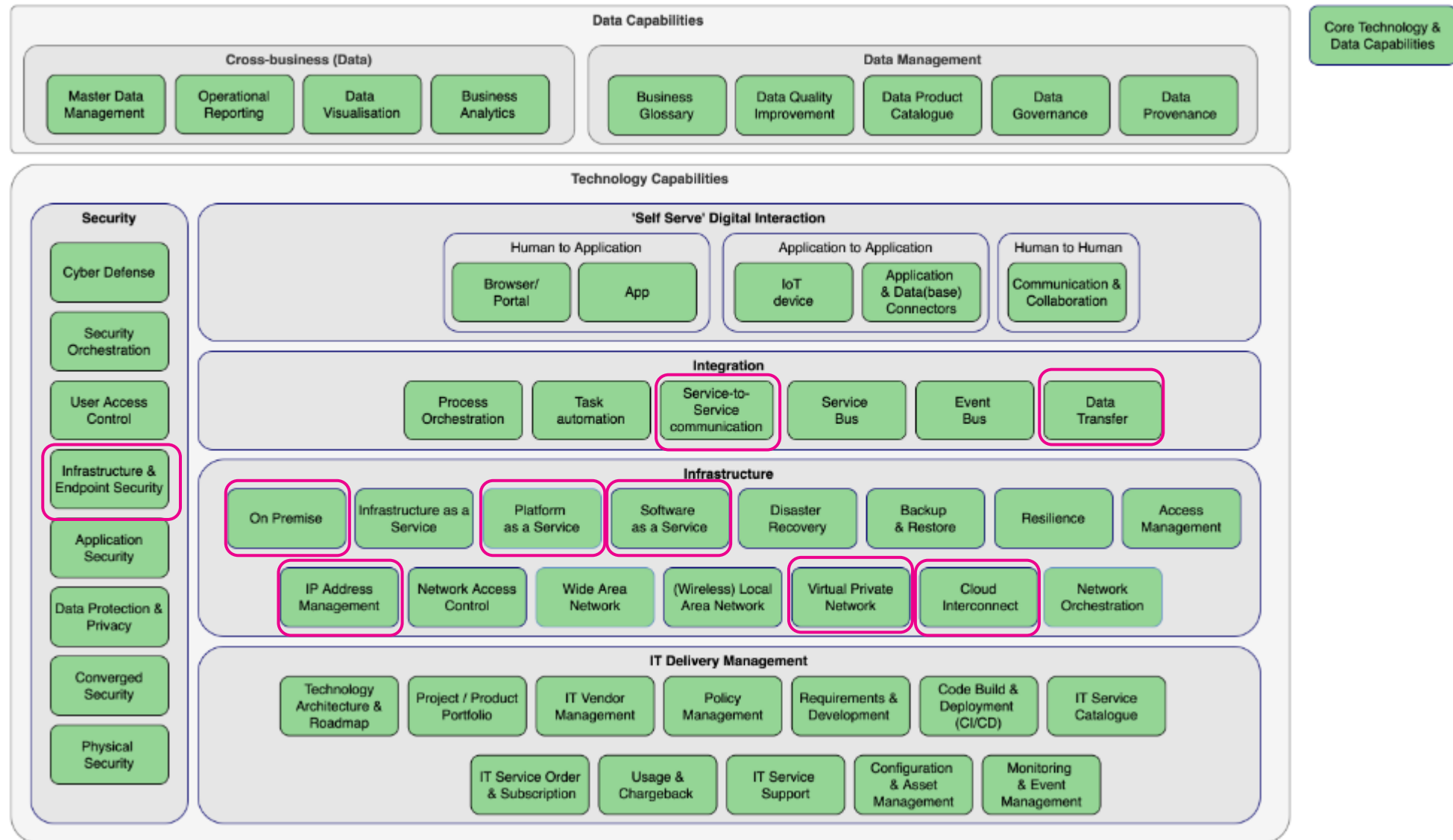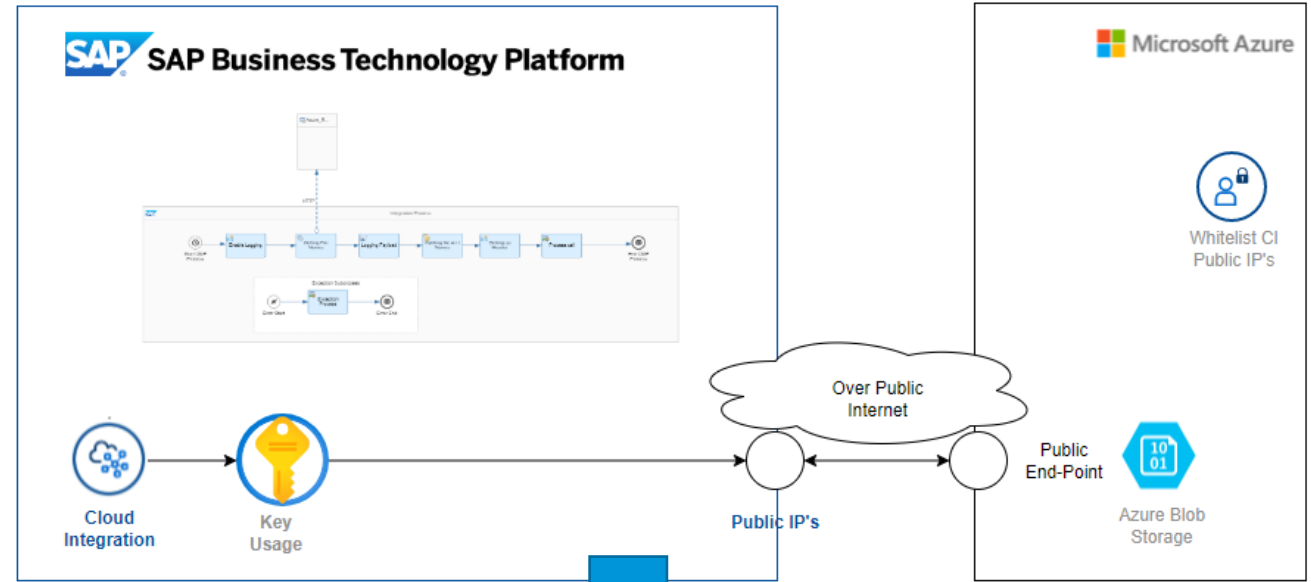
Problem Statement/Challenges

- SAP Integration Suite is connecting **critical business application processes**

- There is need of integration to be **secured, stable** and be **highly available**

- A failure in critical interface would lead to **production stoppage**

- Multiple parties involved in setting up network and firewall changes
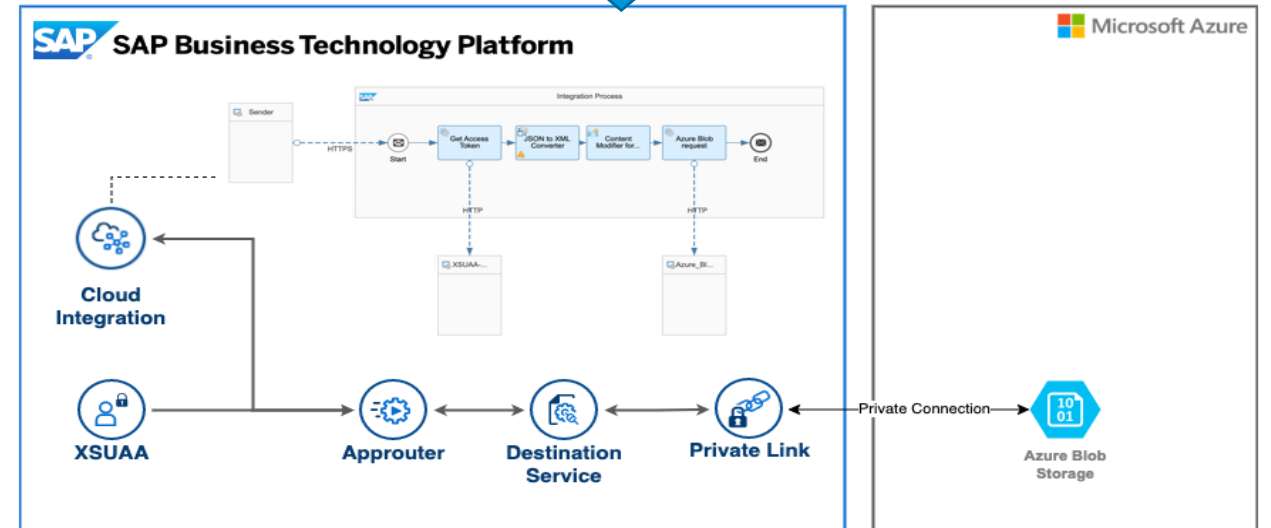
How did we Approach

- Activated Private Link Service

- Brought back Application to Target Architecture

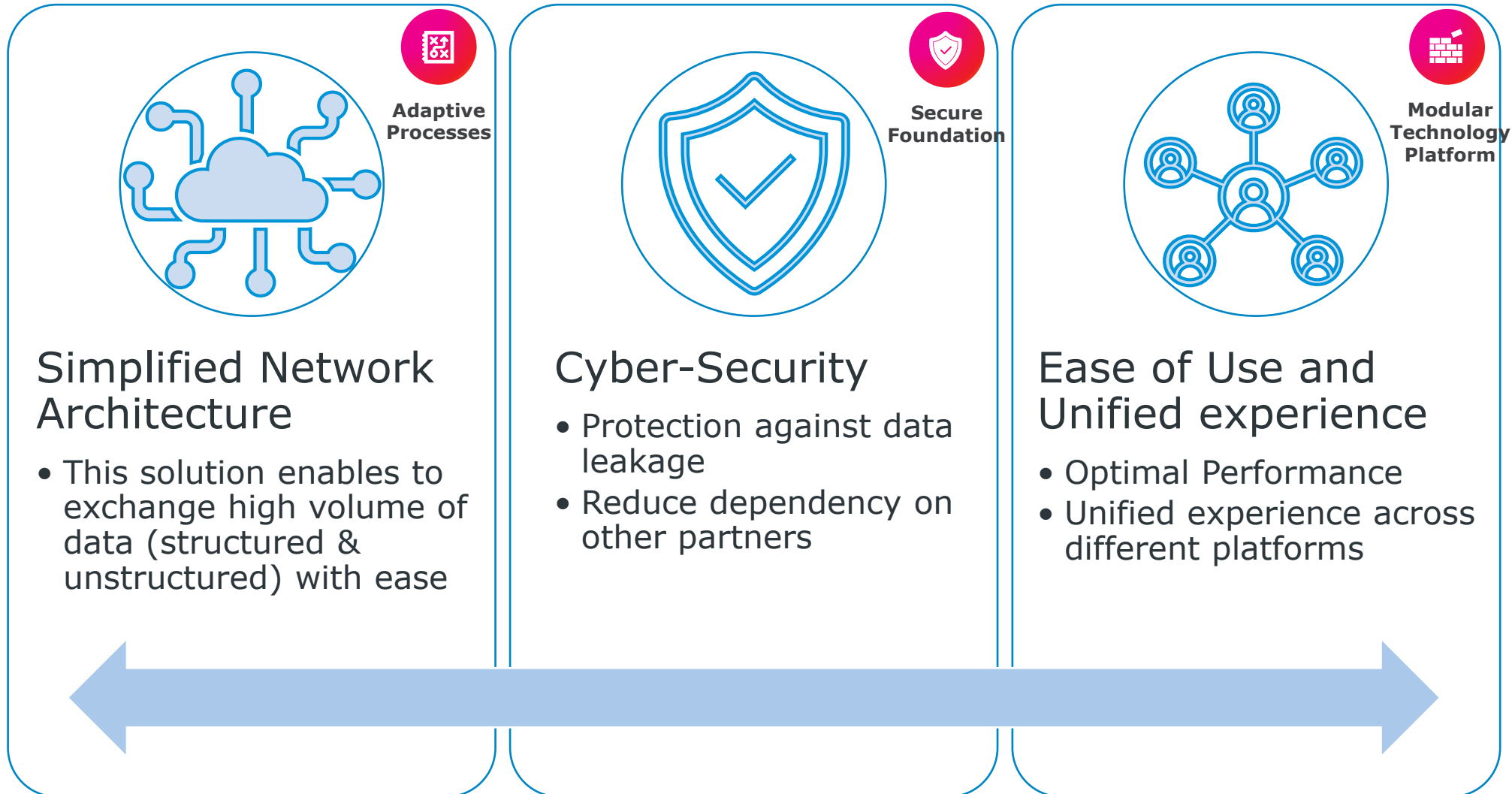- Connection achieved via Backbone (internal network)

After

Before

After

Source : SAP

22

Benefits

Simplified Network Architecture

Adaptive Processes

- This solution enables to exchange high volume of data (structured & unstructured) with ease

Cyber-Security

Secure Foundation

- Protection against data leakage
- Reduce dependency on other partners

Ease of Use and Unified experience

Modular Technology Platform

- Optimal Performance
- Unified experience across different platforms

FrieslandCampina
nourishing by nature

Key Points to take away

- Safeguarding our Data is No.1 Priority as

Data Breach is costly

USD $ 4.45 Million

Global average cost of a data breach in 2023
15% increase over last 3 years.

Copy of the IBM report - 2023

- Simplified Network Architecture is sustainable

- Unified experience can be achieved between different platforms (PaaS and other IaaS)

FrieslandCampina
nourishing by nature

Where to Find More Information

SAP Roadmap Explorer

SAP Help Portal

SAP Discovery Center

Initial Set-up

Blog Posts

Source : SAP

SAPinsider

Thank You ! Questions ?

Hiren Asher

hiren.asher@frieslandcampina.com

Please remember to complete your session evaluation.

Additional Usage and Scenario information
SAP Private Link Service

Supported scenarios

Consume service from customer's IaaS account in SAP BTP (forward direction)

• Consume hyperscaler-native services in SAP BTP

• Consume S/4HANA service in SAP BTP

• Consume 3rd party service in SAP BTP

Supported Services

• **Azure**: Azure Database for MariaDB, Azure Database for MySQL, Azure Storage Account, Azure Machine Learning, and more

• **AWS**: Amazon Simple Queue Service, Amazon Relational Database Service – Aurora Data API, Amazon IoT Core, and more

• SAP Commerce Cloud (Azure Only)
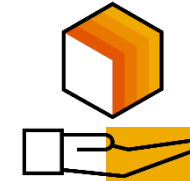
What comes next?

• Support for Kyma runtime (Q4/2023)
• Support on GCP (2024)
• Support for SAP HANA Cloud (2025)
• Support for ABAP Cloud runtime
• Support for many SAAS solutions (ex., SAC, DataSphere, etc.)
• Support for additional IaaS services (On-Demand)
• Support for SAP Cloud connector (2024)
• Support for reverse direction: consuming SAP BTP services in customer's IaaS account

Source : SAP

SAPinsider

SAPinsider

SAPinsider.org

SAPinsider comprises the largest and fastest growing SAP membership group worldwide, with more than 750,000 global members.