



# SWIFT PAYMENTS TRANSFORMATION

Offering Summary

# Capgemini in payments: A leader in the cards and payments space



## Thought Leadership



16<sup>th</sup>  
Successive

## THE WORLD PAYMENTS REPORT

## Assets & Accelerators

- Xpress migration
- Merchant onboarding
- E2E business scenarios
- Tokenization & EMV Toolkit
- Static data matrix
- Compliance simulator (PaySim)
- Cards Agile
- Framework
- Clearing Connect (ACH Assurance)
- Interface matrix

## Talent Pool

**5,000+ SMEs**  
(Across Cards, Retail, Corporate, Trade and Wealth Payments)

## In-House Solution

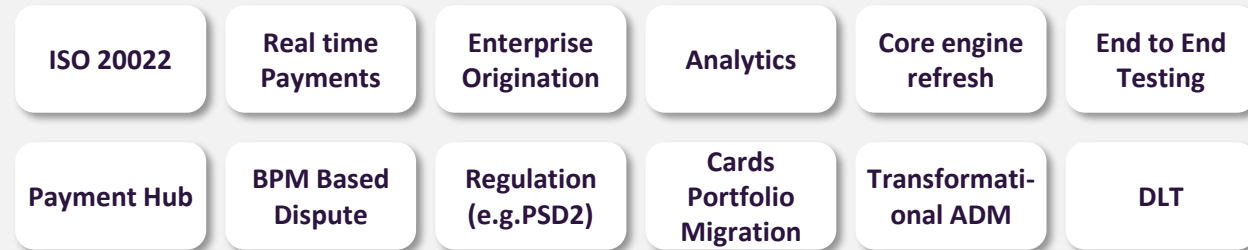


**Open Banking Framework**

## Marquee Clients



## Key solution themes



## Aliances & Product CoE's



## Tool kits & Benefits

**1,800**  
Use Cases

**300**  
Tools for conversion, compliance, posting

**30,000**  
Test case repository (V+, TSYS, Equasion)

**30+**  
Harnessed Clients

**15-20%**  
Cost & Effort saves



# CAPGEMINI SWIFT CAPABILITIES

## WORLD PAYMENTS REPORT 2021



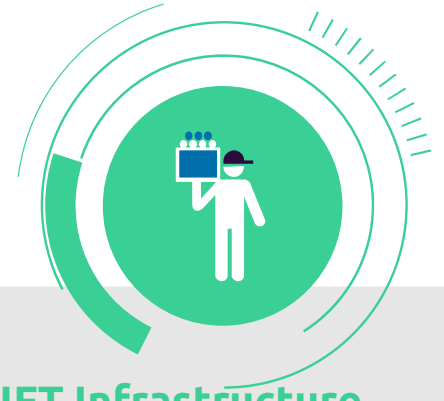
### Global Specialization

- Global team trained on SWIFT areas dedicated to SWIFT-related implementation services
- Knowledge and capabilities to incorporate SWIFT solutions into any bank's service offerings
- Capgemini has developed SWIFT testing Accelerator which can automate a lot of Application testing artefacts



### Deep Implementation Experience

- Message Processing - Attached to SWIFT interfaces
- Swift & Related Services
  - Message Mapping
  - Application configuration – CBT, Gateway etc.
- Implementation of Swift Applications– Swift Alliance Access, Swift Alliance Gateway, Alliance Lite2 etc.
- Swift enhancements, upgrades & Testing – Application upgrades, SWIFT Standard Release enhancement / testing



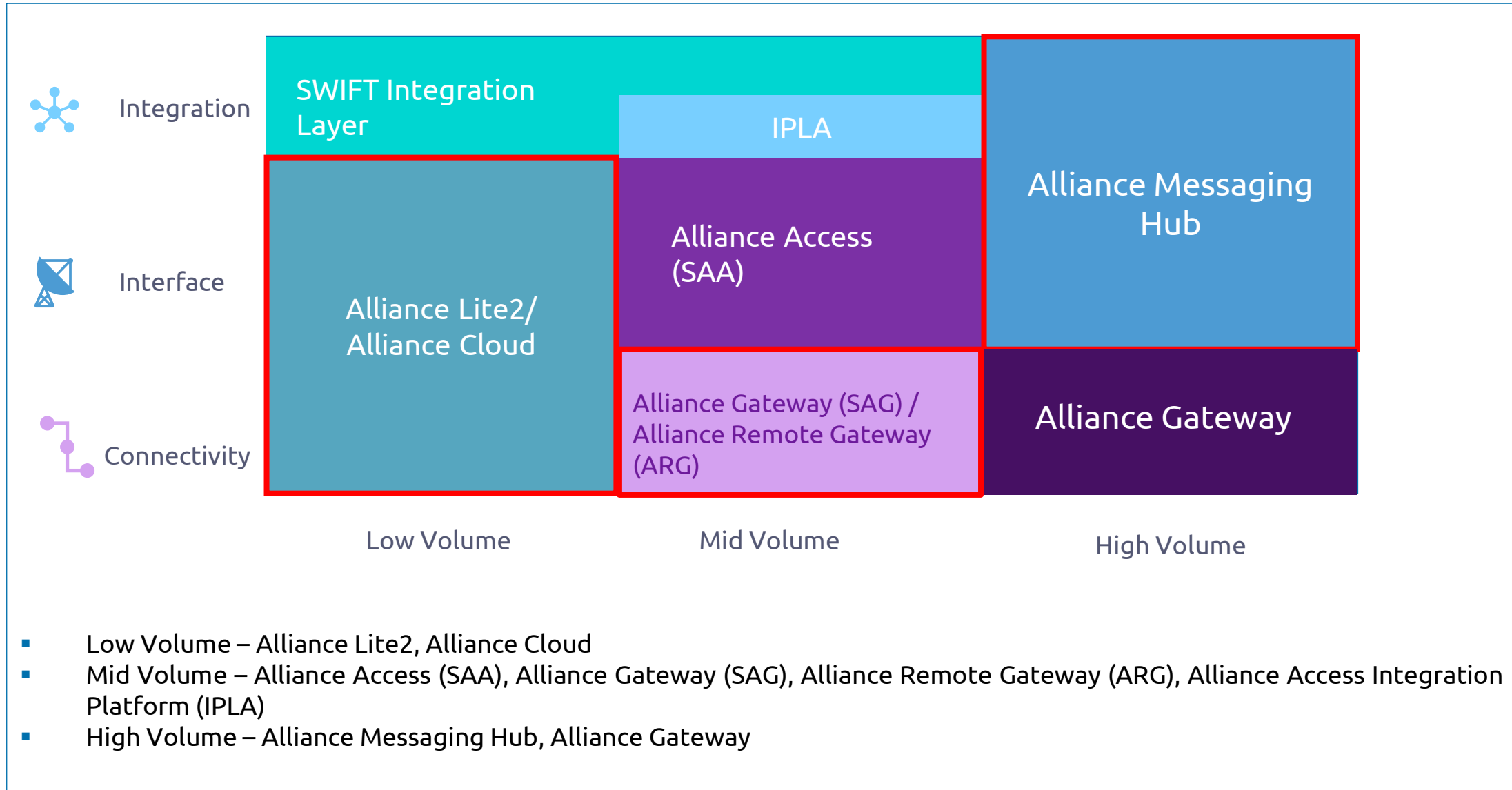
### SWIFT Infrastructure

- Implementation of SWIFT VPN clusters on Alliance Connect Gold, Silver & Bronze packs
- Installation of HSM box clusters, HSM tokens & PED keys with required configuration
- Implementation of HP Swift clustering software for Swift Alliance Access to run on active-active nodes
- Installation of Remote API host Adaptor (RAHA) and MQ host adaptor (MQHA) for SAG

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**OUR OFFERING**

# OUR OFFERING: SWIFT APPLICATIONS IN SCOPE





# SOLUTION OVERVIEW AND BENEFITS

With accelerated Cloud adoption within the Financial Services Industry; FinTechs, Financial Institutions and established Banks look to move SWIFT workloads into the Azure Public Cloud.

- **SWIFT Alliance Connect Virtual**, a unique solution that enables FS organizations to deploy the SWIFT messaging and connectivity infrastructure in Azure.
- **Capgemini** partnered with Microsoft to deliver **end-to-end managed services** for SWIFT Alliance Connect Virtual





# CAPGEMINI OFFERING & PROPOSITION

Capgemini in collaboration with Microsoft provides end to end lifecycle for Payments Transformation with SWIFT Alliance Connect Virtual

## ASSESS

- Due Diligence
- Current state assessment for Apps and Integrations
- SWIFT Cloud Infrastructure blueprinting
- Backoffice Integration strategy and high-level architecture

## ONBOARD

- SWIFT DC Landing Zone setup
- Liaise with SWIFT eOrdering process
- Customer Onboarding and provisioning SAA, SAG in Dev/Test
- Hybrid integrations with HSM clusters,

## TRANSFORM

- Application configuration – CBT, Gateway
- Message mapping, Migration and testing of on-premise MT/MX to cloud
- Develop or Migrate APIs to Azure
- Serverless extensions\*

## MANAGE

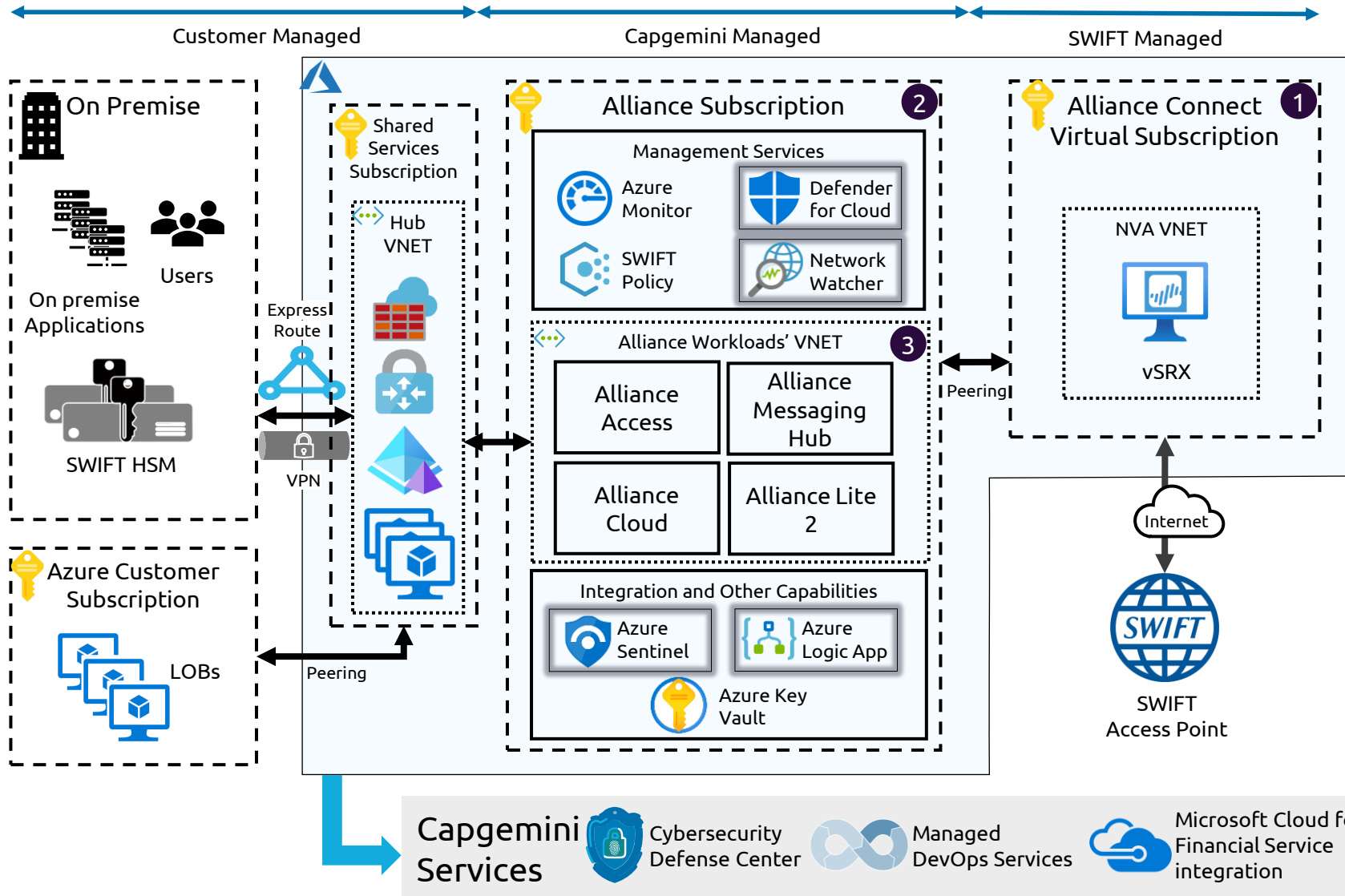
- 24 x 7 Support for SWIFT ecosystem – Apps and IAAS
- Security, Application health check and performance monitoring
- Annual SWIFT upgrades enhancements
- SWIFT Standard Release management

## ACCELERATORS

- Capgemini eAPM Assessment Platform
- Azure SWIFT CSF Blueprints
- SWIFT Logic App Connectors\*
- Capgemini Cloud Management Platform
- SWIFT Architecture Assessment Toolkit\*
- Capgemini Terraform Automation Framework
- Capgemini SWIFT Migration Testing Framework
- Capgemini Cyber Defense Center (CDC)

\*future roadmap

# ALLIANCE CONNECT VIRTUAL HIGH-LEVEL ARCHITECTURE




- ### Offer Core Services
- 1 Alliance Connect Virtual
  - 2 Alliance Workload Landing Zone (optional services highlighted)
  - 3 Alliance Workload deployment and configuration (3) \*
- \* Note: Detailed Alliance Workload Designs are presented on the next pages
- ### Additional Services
- Azure Landing Zone and on-premise connectivity setup
  - For increased security posture, Capgemini may deploy and configure:
    - Azure Sentinel
    - Microsoft Defender for Cloud
    - Azure Key Vault for secret management
    - SWIFT Policy Set to ensure compliance
  - Out of the box integrations are available through Azure Logic Apps
  - Additional Services that Capgemini may offer are:
    - Managed Cybersecurity Defense Center
    - Managed DevOps Service
    - Integrations with Microsoft Cloud for Financial Services Solutions




# CAPGEMINI SWIFT MICROSOFT SHARED SERVICE OFFERING MODEL



Capgemini can work with SWIFT or provide the full services of an end-to-end solution

Capgemini 	Assess	Analysis	Design	Integration	Full Implementation	Go-Live/Adoption	Managed Services
<b>Business &amp; Technical Consulting</b>	●	●	●	●			
<b>Implementation &amp; Integration Services</b>			●	●	●	●	
<b>Project &amp; Service Management</b>				●	●	●	●
<b>Cloud Architecture/Security/Governance</b>			●				

Capgemini and SWIFT 

Capgemini 

Capgemini and Microsoft 

# 2

## DELIVERY MODEL

# DELIVERY APPROACH



**CAPGEMINI + MICROSOFT JOINT OFFERING & PROPOSITION**  
 Capgemini in collaboration with Microsoft provides end to end lifecycle for Payments Transformation with SWIFT Digital Connect

1. ASSESS	2. ONBOARD	3. TRANSFORM	4. MANAGE
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- Architecture Assessment & Sign off
- Swift Interface selection
- Establish Connectivity to Swift network on Microsoft Azure
- Sketch Infrastructure needs and readiness for low & higher environments
- Pilot Testing on Microsoft Azure cloud setup
- Plan & Finalize Disaster Recovery setup
- Establish Backoffice Integration
- Implement Swift CSP on Microsoft Azure
- Dress Rehearse implementation and rollback procedures
- Planned Go-Live activities



Banks



Corporates

## New Customer Adoption & Onboarding

**CAPGEMINI + MICROSOFT JOINT OFFERING & PROPOSITION**  
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- Assess on premise Swift landscape to discover as-is customizations & configs
- Prepare migration roadmap from current to target state cloud set up
- Assessment of Target state Architecture & migration plan
- Establish Connectivity to Swift network on Microsoft Azure
- Sketch Infrastructure needs and readiness for low & higher environments
- Pilot Testing on Microsoft Azure cloud setup
- Plan & Finalize Disaster Recovery setup
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Banks

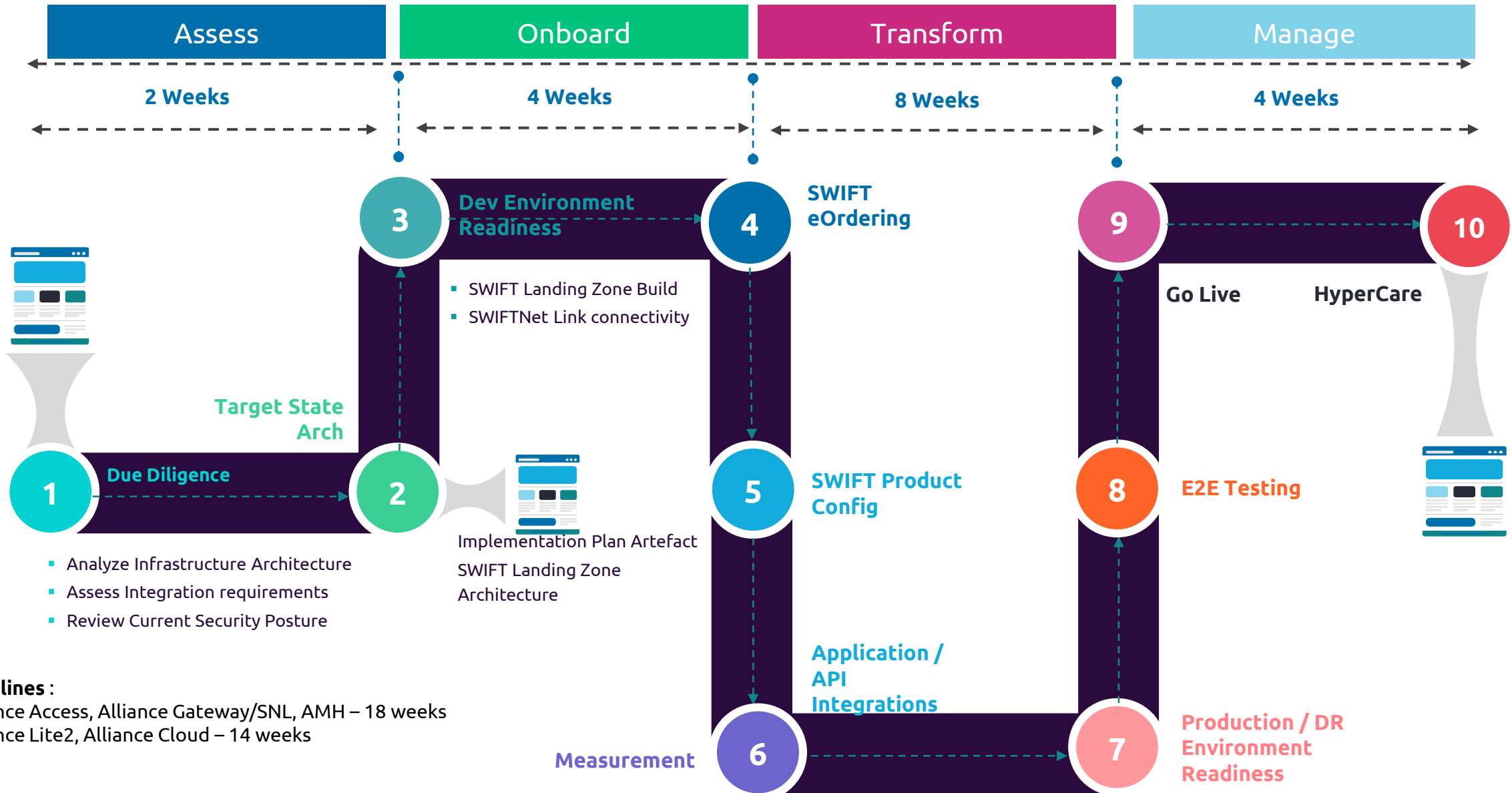


Corporates

## Existing Customer Adoption & Onboarding



# TYPICAL SWIFT MIGRATION ENGAGEMENT – SPRINT PLAN



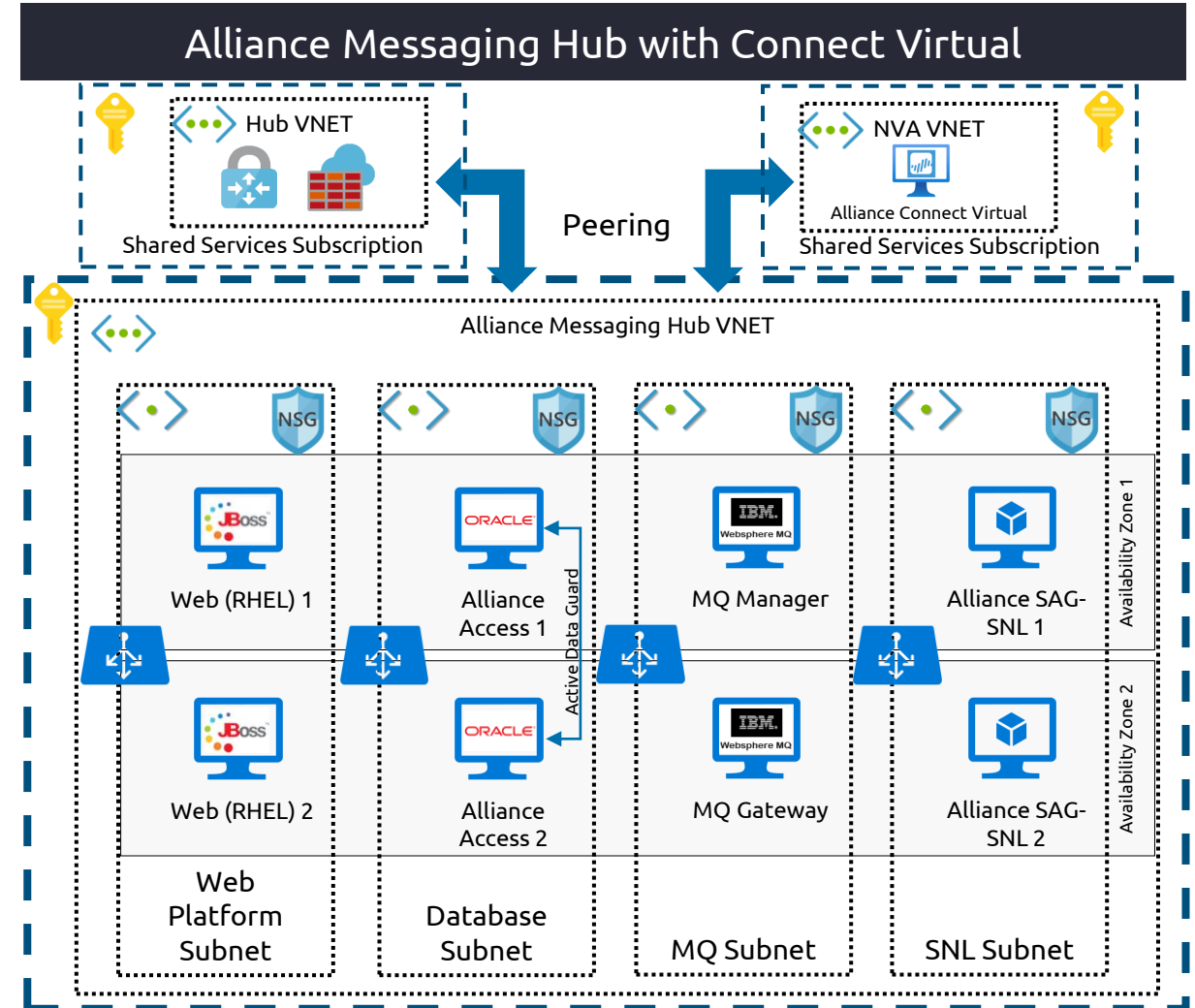
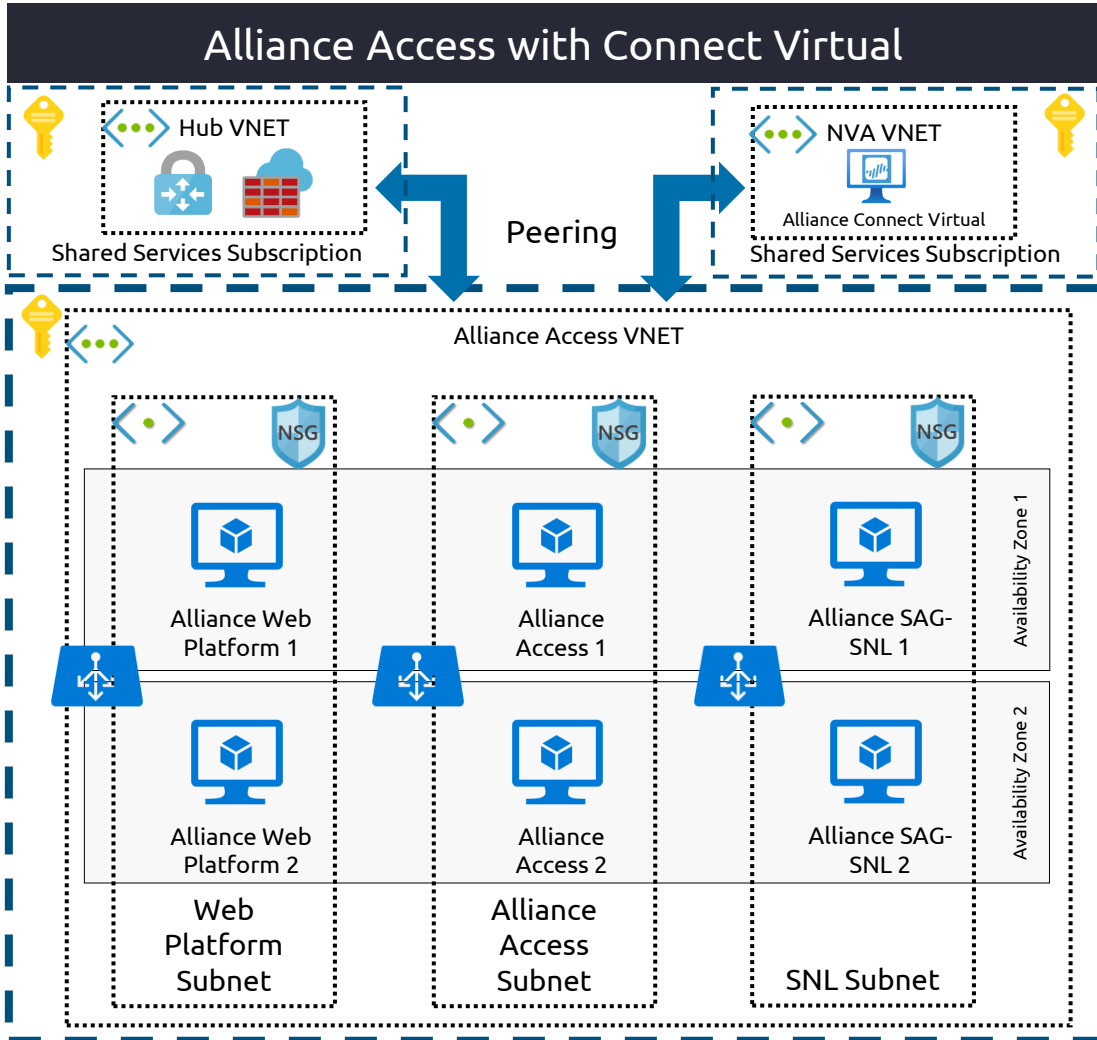
**Timelines :**  
 Alliance Access, Alliance Gateway/SNL, AMH – 18 weeks  
 Alliance Lite2, Alliance Cloud – 14 weeks

# 3

## APPENDIX



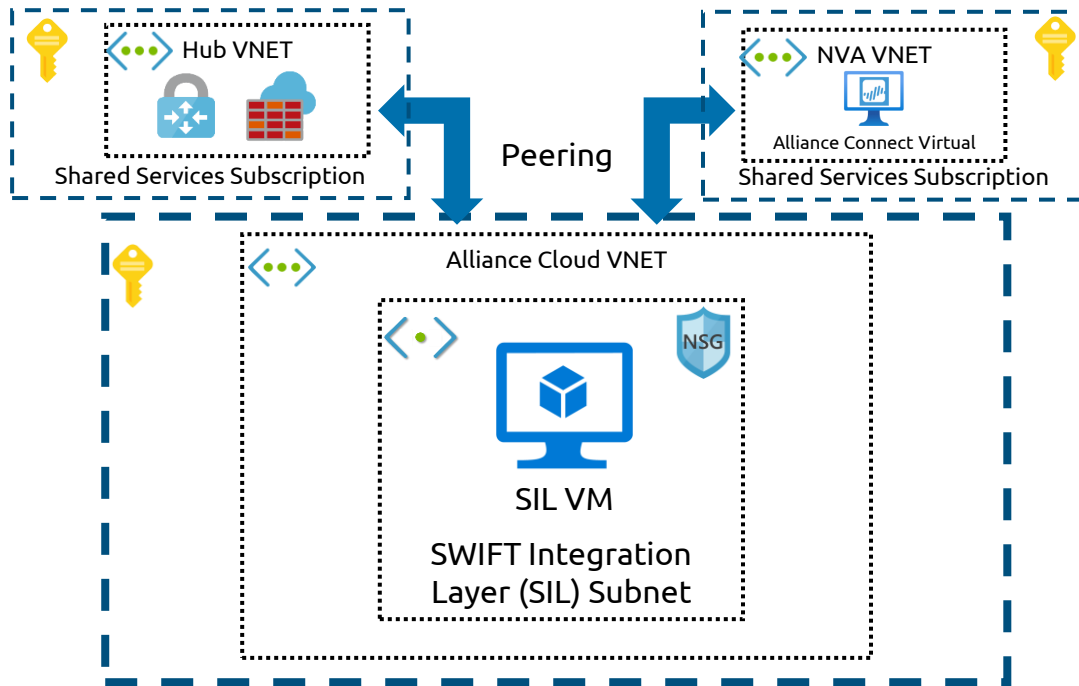
# ALLIANCE ACCESS AND AMH LOW-LEVEL DESIGNS





# ALLIANCE CLOUD AND LITE 2 LOW-LEVEL DESIGNS

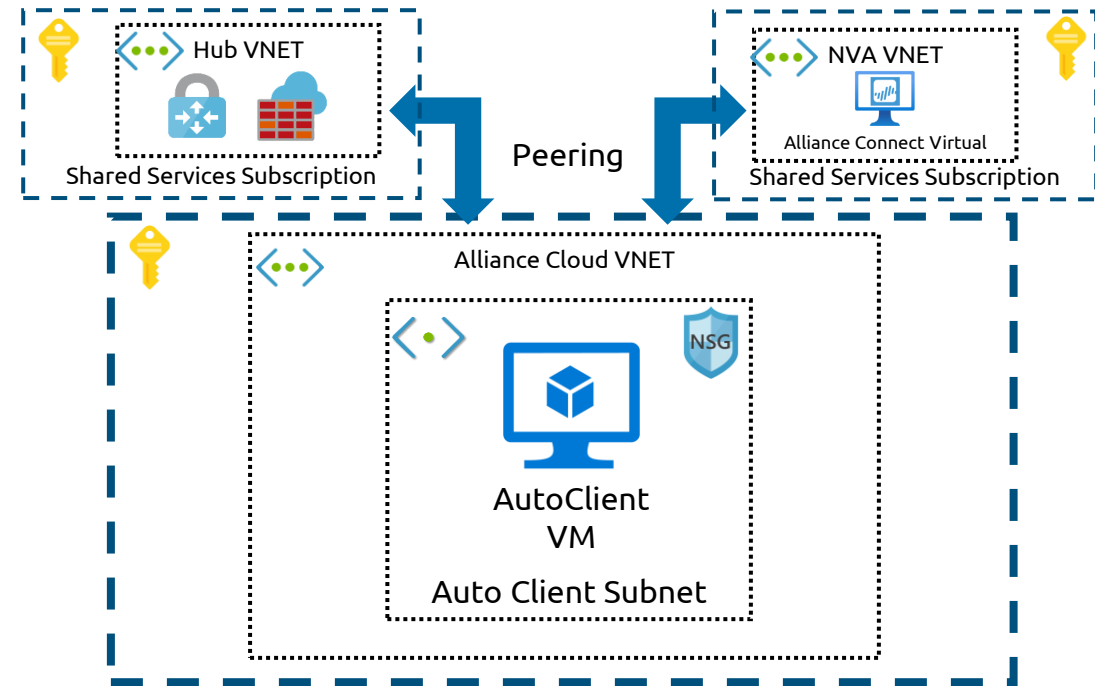
## Alliance Cloud with Connect Virtual



## Considerations

- The design for Alliance Cloud does not provide High Availability
- On premises SWIFT HSM devices are not needed in this scenario
- Alliance Cloud needs physical token management from on-premise

## Alliance Lite 2 with Connect Virtual



## Considerations

- The design for Alliance Lite 2 does not provide High Availability
- On premises SWIFT HSM devices are not needed in this scenario
- Alliance Lite 2 needs physical token management from on-premise



# CAPGEMINI SWIFT PAYMENTS TRANSFORMATION

## Microsoft Partnership:

<https://www.capgemini.com/partner/microsoft/>

**Contact us:** microsoft.fs@capgemini.com

## Learn more:

Link to your Microsoft Commercial Marketplace offer



Microsoft  
Partner



Gold Cloud Platform  
Gold Security  
Gold DevOps  
Gold Application Development  
Gold Data Platform





## About Capgemini

Capgemini is a global leader in partnering with companies to transform and manage their business by harnessing the power of technology. The Group is guided everyday by its purpose of unleashing human energy through technology for an inclusive and sustainable future. It is a responsible and diverse organization of 270,000 team members in nearly 50 countries. With its strong 50 year heritage and deep industry expertise, Capgemini is trusted by its clients to address the entire breadth of their business needs, from strategy and design to operations, fuelled by the fast evolving and innovative world of cloud, data, AI, connectivity, software, digital engineering and platforms. The Group reported in 2020 global revenues of €16 billion.

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