

Published Scope Appendices for Aviatrix Professional Services

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The following is a detailed set of information pertaining to the scope of works associated the Schedule for Aviatrix Professional Services.

Upon executing an applicable order with Aviatrix, the Schedule and these appendices serve to govern the fulfillment and execution of Aviatrix services.

Onboarding and Adoption Programs for Solution Programs (Use Cases)

Aviatrix Professional Services has outcome driven solutions that encompass a series of programs to support initial onboarding of a use case and further adoption of the use case with specific consulting activities to help customers achieve rapid time to value from their investment in Aviatrix software. Use cases follow a reference architecture also known as a solution pattern (“SP”) and Secure Multi-Cloud Fabric for enterprise-wide deployments of Aviatrix software.

These services encompass planning, implementation, automation, and adoption phases, leveraging Infrastructure as Code (Terraform) for deployment automation and providing detailed design documents and runbooks for operational guidance.

Below is the comprehensive appendix for Onboarding and Adoption programs to support the following Use Cases:

- **Secure Cloud Egress (“SP1”)**
- **Secure High Performance Edge connectivity (“SP3”)**
- **Secure Multi-Cloud Fabric (“Multi-cloud Networking-MCNA and/or Cloud Native Security Fabric-CNSF”)**

Onboarding Appendix

Onboarding for Secure Cloud Egress SP1

Onboarding Package	Onboarding Outcomes	Expected Level of Effort
Essential Level I (Included in Starter Packs)	Advanced Security Controls for Egress traffic flows, Visibility and Logging	Up to 2 Program Weeks
Professional Level II		Up to 4 Program Weeks
Enterprise Level III		Up to 8 Program Weeks

Onboarding for High Performance Edge Connectivity SP3

Onboarding Package	Onboarding Outcomes	Expected Level of Effort
Essential Level I (Included in Starter Packs)	High Performance Encryption, DC/Branch to cloud connectivity, Multi-Cloud Connectivity	Up to 2 Program Weeks
Professional Level II		Up to 4 Program Weeks
Enterprise Level III		Up to 8 Program Weeks

Onboarding for Secure Multi Cloud Fabric (MCNA + CNSF)

Onboarding Package	Onboarding Outcomes (subject to Fabric Details)	Expected Level of Effort
Essential Level I (10 Units)	Resilient & Scalable Multi-Cloud backbone connectivity, Full-scale Distributed Enforcement, High Performance Encryption, DC/Branch to cloud connectivity, Advanced Security Controls for East-West and Egress traffic flows, Visibility and Logging	Up to 2 Program Weeks
Professional Level II (30 Units)		Up to 4 Program Weeks
Enterprise Level III (75 Units)		Up to 8 Program Weeks

Secure Cloud Egress (“SP1”) Onboarding Program Details

Planning	Objectives	Outcomes
Insight Sprint	Kickoff	- Review scope. - Customer provides access to their current architecture. - Discuss/Gather requirements from the customer - Availability Zone - T-shirt sizing - CIDR range - Tagging - IAM - Discuss/Gather requirements from the customer
	Discovery	- Customer provides appropriate access for discovery. - Customer is responsible for managing Service Control Policies (“SCP”) as needed to provision Aviatrix. - Develop HLD and review it with the Customer.
Implementation Sprint	Management Plane	- Assist with IAM permission, storage, key components required for Aviatrix build. - Deploy Controller and CoPilot. - High Availability enabled for the Control Plane (AWS only). - Assist with IAM permissions needed for cross accounts.
	Control Plane	- Configure CoPilot alerts and notifications. - Enable backup for Controller and CoPilot. - Assist with SAML enablement as needed. - Onboard CSP accounts to the Controller for gateway deployment. - Control Plane hardening, including security group enforcement, access control, and patching.
	Data Plane	- Deploy Aviatrix Spoke Gateways. - Level 1: in up to 5 vpc’s - Level 2: in up to 25 vpc’s - Level 3: in up to 75 vpc’s
	Secure Egress	- Enable local egress on spoke gateways. - Enable global greenfield DCF policy for visibility. - Validate outbound connectivity & logging.
Impact Sprint	Output	- A detailed design document outlining the architecture. - Runbooks detailing execution steps for tasks within this package.
	Automation	Automate the Aviatrix deployment using IaC (i.e. Terraform).

Planning	Objectives	Outcomes
Insight Sprint	Kickoff	- Review scope. - Customer provides access to their current architecture. - Discuss/Gather requirements from the customer: - IAM - Throughput - T-shirt sizing - CIDR range - Tagging - ASN for Edge Gateways - Edge deployment options - Network Appliance for DC’s - 10G and 25G - ESXi Virtual VM - Equinix NE - Megaport MVE
	Discovery	- Customer provides appropriate access for discovery. - Customer is responsible for managing Service Control Policies (“SCP”) as needed to provision Aviatrix. - Develop HLD and review it with the Customer
Implementation Sprint	Management Plane	- Assist with IAM permission, storage, key components required for Aviatrix build. - Deploy Controller and CoPilot. - High Availability enabled for the Control Plane (AWS only). - Assist with IAM permissions needed for cross accounts.
	Control Plane	- Configure CoPilot alerts and notifications. - Enable backup for Controller and CoPilot. - Assist with SAML enablement as needed. - Onboard CSP accounts to the Controller for gateway deployment. - Control Plane hardening, including security group enforcement, access control, and patching.
	Data Plane	- Deploy Aviatrix Transit Gateways. - Level 1: Up to 2 gateway pairs. - Level 2: Up to 6 gateway pairs. - Level 3: Up to 15 gateway pairs.
	Secure Edge	- Assist with establishing Aviatrix Transit connectivity to AWS TGW/Azure vWAN using BGPoGRE/BGPoLAN/BGPoIPSEC. - Customer needs to provision the underlay connectivity. - LAN/WAN for Dell Harware. - Configure edge gateways. - Level 1: Up to 2 gateway pairs. - Level 2: Up to 6 gateway pairs. - Level 3: Up to 15 gateway pairs. - Attach the edge gateways to the appropriate transits. - Validate connectivity and logging.
Impact Sprint	Output	- A detailed design document outlining the architecture. - Runbooks detailing execution steps for tasks within this package.
	Automation	Automate the Aviatrix deployment using IaC (i.e. Terraform).

Planning	Objectives	Outcomes
Insight Sprint	Kickoff	- Review scope. - Customer provides access to their current architecture. - Discuss/Gather requirements from the customer: - IAM - Throughput - T-shirt sizing - CIDR range - Tagging - ASN for Edge Gateways - Edge deployment options - Network Appliance for DC's - 10G and 25G - ESXi Virtual VM - Equinix NE - Megaport MVE
	Discovery	- Customer provides appropriate access for discovery. - Customer is responsible for managing Service Control Policies ("SCP") as needed to provision Aviatrix. - Develop HLD and review it with the Customer
Implementation Sprint	Management Plane	- Assist with IAM permission, storage, key components required for Aviatrix build. - Deploy Controller and CoPilot. - High Availability enabled for the Control Plane (AWS only). - Assist with IAM permissions needed for cross accounts.
	Control Plane	- Configure CoPilot alerts and notifications. - Enable backup for Controller and CoPilot. - Assist with SAML enablement as needed. - Onboard CSP accounts to the Controller for gateway deployment. - Control Plane hardening, including security group enforcement, access control, and patching.
	MCNA	- Deploy Aviatrix Transit Gateways. - Deploy Aviatrix Spoke Gateways and enable connectivity to Transits - Enable Segmentation - Enable Transit Firenet - Enable Firenet Inspection for East-West and Egress if required - Advanced NAT Configuration - Enable Service integration and External connectivity with partner's/branch offices etc. - Customer needs to provision the underlay connectivity. - LAN/WAN for Dell Hardware. - Configure edge gateways. - Attach the edge gateways to the appropriate transits.
	CNSF	- Smart Group configuration and ThreatIQ - Enable DCF rules (Distributed L4/L7 Firewalling, URL Filtering, IDS/IPS, Micro-Segmentation, Threat Prevention, Decryption) - Assist with East-West and Egress Controls (Applications/Workloads, External connections, Kubernetes) - Validate connectivity and logging.

Impact Sprint	Output	• A detailed design document outlining the architecture. • Runbooks detailing execution steps for tasks within this package.
	Automation	Automate the Aviatrix deployment using IaC (i.e. Terraform).

Adoption Summary

Adoption Package	Program Level of Effort	Program Timeframe
Level 1	8 hours/week	3 Months
Level 2	16 hours/week	3 Months
Level 3	32 hours/week	3 Months

Solution Pattern: Secure Cloud Egress (“SP1”) Adoption Program Details

Planning	Objectives	Outcomes
Insight Sprint	Kickoff	- Review scope and the list of tasks expected to be delivered during the length of engagement - Expansion - Migration - Capacity planning & T-shirt sizing - Software Lifecycle Management to handle features/bugs - Automation includes importing existing infra and new deployments - Optionally onboard the engineer in the system and provide access to key components like Controller, Copilot and cloud environments. - Customer is responsible for handling non-Aviatrix deliverables to meet expectations, like change scheduling and approvals, identifying the security polices etc.
	Discovery	- Prepare an agreed upon plan from the list of services - Understand existing deployment and any customization.
Implementation Sprint	Management Plane	- Alert - Review and update CoPilot alerts and notifications based on historical data. - Documentation - Review and recommend operational and troubleshooting best practices.
	Control Plane	- Software and Image upgrades. - Update Aviatrix software and/or Controller images to latest version to ensure relevant bug fixes, security patches and latest features are available to drive Secure Cloud Egress Adoption Assist with SAML enablement as needed.
	Data Plane	- Deploy Aviatrix Spoke Gateways. - Enable local egress on spoke gateways - Expansion - Plan and deploy new spokes to handle Secure Cloud Egress traffic. - Migration - Migrate additional VPCs/VNETs to Aviatrix Secure Cloud Egress solution. - Optimize - Review the existing deployment and right-size Aviatrix gateways. - Software Upgrades - Update Aviatrix software to latest version to ensure relevant bug fixes, security patches and latest features are available to drive Secure Cloud Egress adoption.

		- Automation - Assist in importing existing infrastructure into IaC. - Develop & update Terraform modules for repeatable new deployments as needed.
	Secure Egress	- DCF Policies - Establish firewall rule patterns. (Priority numbering and nomenclature for various types of rules: Shared Services, IP whitelists, FQDN whitelists, exceptions to patterns, etc.). - Migrate Policies from 3rd party firewalls like Palo Alto, Checkpoint, FortiGate, Cisco into Aviatrix DCF. - Establish appropriate logging to 3rd party destinations. - Legacy to DCF policy migration (for existing customers).
Impact Sprint	Output	- Updated Cloud Design Document. - Customized operational and troubleshooting guidance. - Runbooks detailing execution steps for tasks within this package.
	Automation	Automate the Aviatrix deployment using IaC (i.e. Terraform).

Planning	Objectives	Outcomes
Insight Sprint	Kickoff	- Review scope and the list of tasks expected to be delivered during the length of engagement. - Expansion - Capacity planning & T-shirt sizing - Software Lifecycle Management to handle features/bugs - Automation includes importing existing infrastructure and new deployments - Optionally onboard the engineer in the system and provide access to key components like Controller, CoPilot and cloud environments. - Customer is responsible for handling non-Aviatrix responsibilities to meet expectations, like change scheduling and approvals, identifying the security polices etc.
	Discovery	- Customer provides appropriate access for discovery. - Customer is responsible for managing Service Control Policies (“SCP”) as needed to provision Aviatrix. - Develop/Update HLD and review it with the Customer.
Implementation Sprint	Management Plane	- Alert - Review and update CoPilot alerts and notifications based on historical data. - Documentation - Review and recommend operational and troubleshooting best practices.
	Control Plane	- Software and Image upgrades - Update Aviatrix software and/or Controller images to latest version to ensure relevant bug fixes, security patches and latest features are available to drive Secure Cloud Egress adoption. Assist with SAML enablement as needed.
	Data Plane	- Expansion - Plan and deploy new spokes to handle Secure Coud Egress traffic. - Optimize - Review the existing deployment and right-size Aviatrix Transit and/or Edge gateways. - Software Upgrades - Update Aviatrix software to latest version to ensure relevant bug fixes, security patches and latest features are available to drive Secure Cloud Egress adoption. - Automation - Assist in importing existing infrastructure into IaC. - Develop & update Terraform modules for repeatable new deployments as needed.
	Secure Edge	- Assist with expanding Aviatrix Transit connectivity to AWS TGW/Azure vWAN to additional cloud regions using BGPoGRE/BGPoLAN/BGPoIPSEC. - Assist with reviewing onprem to cloud underlay connectivity for best practices - LAN/WAN for Edge Appliance - Attach the edge gateways to the appropriate transits. - Continuing migrations from existing onprem connectivity design to Edge - Validate connectivity and logging.
Impact Sprint	Output	- Updated Cloud Design Document - Runbooks detailing execution steps for tasks within this package. - Customized Operational and Troubleshooting guidance
	Automation	Automate the Aviatrix deployment using IaC (i.e. Terraform).

Solution Pattern: Generic Adoption Program Details

Planning	Objectives	Outcomes
Insight Sprint	Kickoff	- Review scope and the list of tasks expected to be delivered during the length of engagement. - Expansion - Migration - Capacity planning & T-shirt sizing - Software Lifecycle Management to handle features/bugs - Automation includes importing existing infra and new deployments - Optionally onboard the engineer in the system and provide access to key components like Controller, Copilot and cloud environments. - Customer is responsible for handling non-Aviatrix deliverables to meet expectations, like change scheduling and approvals, identifying the security polices etc.
	Discovery	- Understand the existing deployment and any customization - Prepare a plan on agreed deliverables from the list of services.
Implementation Sprint	Management Plane	- Alert - Review and update Copilot alerts and notifications based on historical data - Documentation - Review and recommend operational and troubleshooting best practices
	Control Plane	- Software and Image upgrades - Update Aviatrix software and/or Controller images to latest version to ensure relevant bug fixes, security patches and latest features are available to drive Secure Cloud Egress adoption Assist with SAML enablement as needed
	Data Plane	- Expansion - Plan and deploy new spokes/transits and enable spoke to transit attachments. - Migration - Migrate additional VPCs/VNETs to Aviatrix MCNA solution - Optimize - Review the existing deployment and right-size Aviatrix gateways - Software Upgrades - Update Aviatrix software to latest version to ensure relevant bug fixes, security patches and latest features. - Automation - Assist with importing existing infrastructure into IaC - Develop & update TF modules for repeatable new deployments as needed - Security Fabric - Smart Group configuration and ThreatIQ enablement - Enable DCF rules (Distributed L4/L7 Firewalling, URL Filtering, IDS/IPS, Micro-Segmentation, Threat Prevention, Decryption) - Assist with East-West and Egress Controls (Applications/Workloads, External connections, Kubernetes) - Validate connectivity and logging.
Impact Sprint	Output	- Updated Cloud Design Document - Runbooks detailing execution steps for tasks within this package. - Customized Operational and Troubleshooting guidance.
	Automation	Automate the Aviatrix deployment using IaC (i.e. Terraform).

Fixed Duration Programs for Platform Implementation

Fixed duration services cover more general platform implementation activities with our projects for **Discovery** and **Design, Build** and **Configure**, and **Migration** workstreams. These are fixed duration services (scoped with one-week minimum work effort required) and encompass a wider range of product configuration goals and objectives beyond specific solution use cases.

The Aviatrix fixed duration services project is delivered as a series of phases as described below using fixed fee program components/workstreams as follows:

- Design & Discovery (Technical Planning)
- Build & Configure (Setup and Guided Hands-on Keyboard)
- Migration (Brownfield)

Prior to beginning the first phase, Aviatrix will schedule a technical planning session(s) with the Customer to create and agree upon a proposed Project Plan to be followed, updated and managed to achieve the outcomes for the programs listed above. This technical planning session(s) is for live collaboration between engineers from the Customer and Aviatrix. In addition to the technical planning session for the Project, additional working sessions will focus on completing tasks for the current phase and will not exceed four (4) hours in duration per Program Day. A minimum of four (4) working sessions is recommended. The Customer engineer(s) should expect follow-on tasks and actions from the live working sessions that must be completed before the next live session.

The timing of each phase will require the Customer to schedule and commit Customer staff to support Aviatrix in its delivery of the Project pursuant to the agreed-upon schedule.

The Aviatrix services project is designed to provide the customer with a high-level configuration based on best practices.

Products In/Out Scope

Third Party Provider Products including the below, are outside project scope:

- Terraform
- Third Party Firewalls
- CI/CD Pipelines

Products inside project scope:

- Aviatrix Controller
- Aviatrix CoPilot
- Aviatrix Transit Firenet/Spoke Gateways
- Aviatrix Infra Automation (Terraform)
- Aviatrix High Performance Encryption (HPE)
- IPsec Tunnels to third party partners

Project Summary

Customer has requested Aviatrix Professional Services to apply Aviatrix Fixed Duration Services: detailed in the ***Special Terms*** section of the applicable order.

Kickstart Day

Start your journey with our foundational services, expertly designed to deploy the Controller & CoPilot software components.

Planning	Objectives	Outcomes
Insight Sprint	Kickoff	- Review scope. - Customers provide access to their current architecture. - Discuss/Gather requirements from the customer: - IAM - Throughput - T-shirt sizing - CIDR range
	Discovery	- Customer provides appropriate access for discovery. - Develop HLD and review it with the Customer. - Customer is responsible for managing Service Control Policies (“SCP”) as needed to provision Aviatrix.
Implementation Sprint	Management Plane	- Assist with default IAM permissions. - Deploy Controller and CoPilot. - High Availability enabled for the Control Plane (AWS only).
	Control Plane	- Configure CoPilot alerts and notifications. - Enable backup for Controller and CoPilot. - Control Plane hardening, including security group enforcement, access control, and patching.

Time and Materials

Hourly Rate for ad-hoc consulting subject to 3 hour minimum per day and up to 8 hours maximum per day. Rates subject to change.