



Cisco Cloud Network Controller Verified Scalability Guide, Release 25.1(1)

[Overview](#) 2

[Scalability Limits](#) 2

[Trademarks](#) 4

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Overview

This guide contains the maximum verified scalability limits for Cisco Cloud Network Controller, Release 25.1(1):

These values are based on a profile where each feature was scaled to the numbers specified in the tables. These numbers do not represent the theoretically possible Cisco Cloud ACI scale.



Note For Cisco APIC verified scalability limits, visit: https://www.cisco.com/c/en/us/support/cloud-systems-management/application-policy-infrastructure-controller-apic/tsd-products-support-series-home.html#Verified_Scalability_Guides.
For Cisco Nexus Dashboard Orchestrator verified scalability limits, visit <https://www.cisco.com/c/en/us/support/cloud-systems-management/multi-site-orchestrator/products-device-support-tables-list.html>.

Scalability Limits

This section contains scalability numbers for Cisco ACI cloud deployments. The scalability limits differ based on whether it's a single cloud site or a multi-cloud deployment.

Single Cloud Site

This section contains scalability numbers for a single cloud site deployment.

Table 1: Single AWS Cloud Site

Configurable Options	Scale
Number of Tenants	100
Number of Application Profiles	500
Number of EPGs	1500
Number of cloud Endpoints	1000
Number of VRFs	200
Cloud Context Profiles	400
Number of Contracts	1000
Number of L4-L7 Service Graphs	200
Number of L4-L7 Services Devices (AWS ALB)	100
Number of Policy Rules	70,000

Configurable Options	Scale
Number of Regions	16 <ul style="list-style-type: none"> • Of the 16, only 4 regions can be external connectivity • All 16 regions can be used for workload deployment.
Number of CSRs per Region	4
Number of CSRs per Site	16
Number of hub networks for Transit Gateway (TGW)	2
Number of Transit Gateways per hub network	2
Number of restricted domains (security domain with restricted role)	32

Table 2: Single Azure Cloud Site

Configurable Options	Scale
Number of Tenants	100
Number of Application Profiles	2000
Number of EPGs	2000
Number of cloud Endpoints	3500
Number of VRFs	200
Cloud Context Profiles	400
Number of Contracts	1000
Number of L4-L7 Service Graphs	200
Number of L4-L7 Services Devices	100
Number of Policy Rules	125,000
Number of Regions	16 <ul style="list-style-type: none"> • Of the 16, only 4 regions can be external connectivity • All 16 regions can be used for workload deployment.
Number of CSRs per Region	8
Number of CSRs per Site	32
Number of restricted domains (security domain with restricted role)	32

Multi-Cloud Deployments

This section contains scalability numbers for multi-cloud deployments. The same scale numbers apply to each cloud site (AWS or Azure) with intersite connectivity provided by the Cisco Nexus Dashboard Orchestrator. Total number of stretched and non-stretched objects must not exceed the maximum verified scalability limit for that object.

Table 3: Multi-Cloud Deployments

Configurable Options	Scale
Number of cloud sites	3
Number of on-premises sites	2
Number of managed regions per site	16
Number of CSRs per site	4
Number of CSRs per region	2
Number of Tenants	100
Number of EPGs	1500
Number of cloud endpoints	1000
Number of VRFs	200
Cloud Context Profiles (VPC/VNET)	400
Number of Contracts	1000
Number of Security Rules	60000

Trademarks

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