

This article describes the ACE system limits and performance numbers for various resources and configuration objects.

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## ACE Performance Numbers and Resource Limits

For the most current performance numbers for the ACE products, always refer to the data sheets for the ACE appliance and the ACE module.

### ACE Appliance Data Sheet

[ACE appliance data sheet](#)

### ACE Module Data Sheets

[ACE10/ACE20 module data sheet](#)

[ACE30 module data sheet](#)

If you have any questions or concerns related to ACE performance, please contact your Cisco account team for guidance.

### SLB-Related Limits

**Scalability Numbers** The scalability numbers provided here are intended to provide guidelines related to configuration scalability. The scalability numbers, however, are based on basic configurations. In order to obtain scalability numbers specific to your deployment, testing with your feature combination is strongly recommended. If there are any questions or concerns related to ACE performance, please contact your Cisco account team for guidance.

SLB-Related Object	ACE Module System Limit	ACE Module Context Limit	ACE Appliance Limit	Additional Information
ARP Entries	32,768	32,768	32,768	
Bridge Table Entries	32,768	32,768	32,768	A few are reserved for L2 interfaces, redundancy, and so on.
Bridge-Group Virtual Interfaces (BVIs)	4096	2048	512	
Concurrent Conns L4 (Unproxied)	4,000,000	4,000,000	1,000,000	
Concurrent Connections L7 (Proxied)	512,000	512,000	128,000	
Domains	2,500	10 (9)	10 (9 per context)	One is used for the default domain.
Domain Objects	None	None	None	Any object within the virtual partition can be added to a domain.
Logical Interfaces	8,192	8,192	8,192	

Resource Classes	100 (99)	1	100 (99)	One is used for the default class.
Roles	4,000	16 (8)	16 (8) per context	Eight are predefined.
Sticky Groups	4,096	4,096	4,096	
Sticky Table Entries	4,000,000	4,000,000	800,000	
Virtual Contexts	251	N/A	21 (1 Admin context)	250 user contexts + 1 Admin context
VLANs	4,000 (2-4094)	4,000 (2-4094)	4,000 (2-4094)	

## Security-Related Limits

**Scalability Numbers** The scalability numbers provided here are meant to provide guidelines related to configuration scalability. The scalability numbers, however, are based on basic configurations. In order to obtain scalability numbers specific to a particular customer, testing with that customer's feature combination is strongly recommended before any commitment on ACE performance is made to the customer. If there are any questions or concerns related to ACE performance, please contact your Cisco account team for guidance.

Security Related Object	ACE Module System Limit	ACE Module Context Limit	ACE Appliance Limit	Additional Information
Static NAT Policies	4096	4096	4096	
Dynamic NAT Policies	4096	4096	4096	
Maximum of addresses in a NAT pool	64	64	32	
Maximum of addresses in a PAT pool	63k	63k	631	
PAT Entries	4,000,000	4,000,000	1,000,000	
Total NAT Pools	8,192	8,192	8,192	

Xlates	1,000,000	1,000,000	64,000	
Concurrent SSL Conns	100,000	100,000	100,000	Subset of L7 (proxied) connections
RSA key size	up to 4096 bits	up to 4096 bits	up to 4096 bits	Supported: 512, 786, 1536, 1024, 2048, and 4096 (imported public keys only) bits
SSL Certs/Key files	3800/3800 (A2(3.x) and earlier) 4096/4096 (A4(1.0) and later)	3800/3800 (A2(3.x) and earlier) 4096/4096 (A4(1.0) and later)	3800/3800 (A3(1.x) and earlier) 4096/4096 (A3(2.x) and later, incl. A4(1.0))	This number is strictly enforced in A220, A214, and A322

## Management-Related Limits

**Scalability Numbers** The scalability numbers provided here are meant to provide guidelines related to configuration scalability. The scalability numbers, however, are based on basic configurations. In order to obtain scalability numbers specific to a particular customer, testing with that customer's feature combination is strongly recommended before any commitment on ACE performance is made to the customer. If there are any questions or concerns related to ACE performance, please contact your Cisco account team for guidance.

Management-Related Object	ACE Module System Limit	ACE Module Context Limit	ACE Appliance	Additional Information
AAA LDAP Servers	6,144	8 (24 total)	8	
AAA RADIUS Servers	2K (256*8)	8 (24 total)	8	
AAA TACACS+ Servers	6K (256*24)	8 (24 total)	8	
Domains	2500	64 (63)	64 (63)	One domain is used for the default-domain and cannot be removed

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Local Users	7500	30 (Admin context: 28)	31 (including admin, www, and dm)	
Objects within a Domain	No limit	No limit		Any object within the virtual partition can be added to a domain
Resource-classes	252	Not applicable	100	
Roles	4000	16 (8)	16 (8)	Eight are predefined and cannot be altered, leaving eight for you to customize
SNMP Hosts	No Limit	10		
SSH Sessions	256	4	4	
Syslog buffer size	4 MB	4 MB	1 MB	
Syslog CP rate	5,000 per seconds	5,000 per seconds	3,000 per seconds	
Syslog DP rate	350,000 per second	350,000 per second	100,000 per second	
Syslog history table size	256 x 500	500		
Syslog Hosts	256	2	2	
Syslog internal queue size	10 MB	10 MB	8,192 messages	
Syslog persistence size	1M	1M		
Syslog rate limit table size	256 x 100	100	10,000 messages per sec	
Telnet Sessions	256	4	4	