

ASA Connector for CWS

Sizing Guide and Information

ASA 5500 Series Sizing

This section provides a Sizing Guide for Cisco Cloud Web Security Connector with the ASA 5500 Series Adaptive Security Appliances

Sizing numbers listed are for concurrent users. Concurrent users are usually sized at roughly 15% of the total count.

ASA 5500 Platforms Sizing

Platform	User Count
5505	25
5510	75
5520	300
5540	1,000
5550	2,000

Additional notes on **ASA 5500** series sizing:

1. Sizing for Cloud Web Security (CWS) is based on concurrent users. This is roughly 15% of the total number of users who may browse the internet.
2. Tests used HTTP/S traffic with 32K object size – every single HTTP GET was answered by an object 32K in size.
3. Peak bandwidth per seat is 20 Kbps (measured on a 95th percentile basis).
4. Traffic profile: HTTP – 88% and HTTPS – 12%.
5. Tests were run with authentication using IDFW and the test setup designed such that every GET request would make the ASA apply a header to each request.
6. The same sizing guidelines should be used in cases where no authentication is required. As the authentication is performed off-box by IDFW, the difference is negligible.
7. Actual internet traffic profile may vary based on usage, but Cisco strongly recommends that customers adhere to the sizing guidelines above.
8. In case of multi-context, the total number of user capacity stated per model is for the whole ASA, and can be divided across the contexts however required.

ASA 5500-X Series Platforms Sizing

This section provides a Sizing Guide for Cisco Cloud Web Security Connector with the **ASA 5500-X** Series Adaptive Security Appliances.

ASA 5500-X models have been tested against CWS Next Generation Towers (NGT). Sizing numbers are now for **maximum bandwidth, Requests per Second (RPS, Xact/sec)** that the specific models can support when redirecting traffic to a CWS NGT.

Based on their traffic profile, **customers can calculate their user count**. Metrics are provided for when the ASA performs authentication via CDA, and also when no authentication is performed. There are 5 levels of SSL mix from 0% through to 100% at 25% intervals.

ASA 5508-X

Authentication	Metric	SSL 0%	SSL 25%	SSL 50%	SSL 75%	SSL 100%
Yes	Throughput	270	260	250	220	210
Yes	Xact/sec	1300	1240	1190	1070	1010
No	Throughput (Mbps)	270	260	230	180	170
No	Xact/sec	1300	1250	1120	850	830

ASA 5516-X

Authentication	Metric	SSL 0%	SSL 25%	SSL 50%	SSL 75%	SSL 100%
Yes	Throughput (Mbps)	270	260	250	230	180
Yes	Xact/sec	1300	1270	1200	1090	870
No	Throughput (Mbps)	280	270	200	190	180
No	Xact/sec	1320	1270	920	900	860

ASA 5545-X

Authentication	Metric	SSL 0%	SSL 25%	SSL 50%	SSL 75%	SSL 100%
Yes	Throughput (Mbps)	420	370	300	280	270
Yes	Xact/sec	2000	1770	1430	1360	1310
No	Throughput (Mbps)	420	390	310	280	260
No	Xact/sec	2000	1890	1700	1620	1260

ASA 5555-X

Authentication	Metric	SSL 0%	SSL 25%	SSL 50%	SSL 75%	SSL 100%
Yes	Throughput (Mbps)	410	400	390	390	370
Yes	Xact/sec	1960	1920	1870	1840	1760
No	Throughput (Mbps)	410	400	390	380	370
No	Xact/sec	1950	1920	1900	1880	1860

ASA 5585-SP10

Authentication	Metric	SSL 0%	SSL 25%	SSL 50%	SSL 75%	SSL 100%
Yes	Throughput (Mbps)	720	660	600	580	550
Yes	Xact/sec	2840	2630	2380	2300	2200
No	Throughput (Mbps)	720	660	600	560	540
No	Xact/sec	2840	2590	2370	2200	2150

ASA 5585-SP20

Authentication	Metric	SSL 0%	SSL 25%	SSL 50%	SSL 75%	SSL 100%
Yes	Throughput (Mbps)	870	850	710	700	640
Yes	Xact/sec	4150	4120	3500	3370	3070
No	Throughput (Mbps)	910	800	680	480	460
No	Xact/sec	4350	3970	3520	3400	3040

ASA 5585-SP40

Authentication	Metric	SSL 0%	SSL 25%	SSL 50%	SSL 75%	SSL 100%
Yes	Throughput (Mbps)	1180	1170	690	596	450
Yes	Xact/sec	6510	4570	4300	4000	3220
No	Throughput (Mbps)	1300	980	840	830	820
No	Xact/sec	6220	4670	4200	4100	4080

ASA 5585-SP60

Authentication	Metric	SSL 0%	SSL 25%	SSL 50%	SSL 75%	SSL 100%
Yes	Throughput (Mbps)	1740	1080	1070	1060	1050
Yes	Xact/sec	8350	5200	5140	4730	4720
No	Throughput (Mbps)	1360	1040	1030	1010	1000
No	Xact/sec	6500	4960	4950	4940	4850

Additional notes on **ASA 5500-X** series sizing:

1. Sizing tests were performed until CPU or Memory resources reached 50% in to keep headroom for other services that may be running on the ASA.
2. Additional 5500-X models may be tested in future.



Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
Cisco Systems (USA) Pte. Ltd.
Singapore

Europe Headquarters
Cisco Systems International BV Amsterdam,
The Netherlands

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