



Avaya Communication Manager
System Capacities Table
Release 3.0

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Introduction

This document contains Avaya Communication Manager Release 3.0 software defined capacities for the various server platforms (S8700/S8710, S8500, S8300 etc.). Capacities of LSPs and ESSes are that of the main Communication Manager that they are associated with.

The software-defined limits and license-file based offer limits are provided in the System Capacities Table for Release 3.0. The capacities in this table reflect the offer limit when the offer-based limits are less than the software-defined maximum. An additional line containing the offer limits for an item are included in the table when the item does not have corresponding software-defined limits.

Avaya Communication Manager	G3 CSI	Release 3.0 Linux Server Platforms					
		S8700, S8710 IP Connect	S8700, S8710 Multi Connect	S8500, S8500B See Note-2 and 71.3	S8300 /G700	S8300 /G350 See Note-5	S8300 /G250 See Note-10
ITEM	w/ CMC1	w/H.248 Media Gateways, H.323 Remote Office Gateways (including G150)	w/H.248 Media Gateways, H.323 Remote Office Media Gateways (including G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways, H.323 Remote Office Gateways (incl. G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways and H.323 Remote Office Gateways	No subtending H.248 Media Gateways	No subtending H.248 Media Gateways

NOTE-1: The Capacities for IP Connect and MultiConnect Systems are the same since Release 2.2. Also note that the S8710 Media Server supports the same capacities and configurations as the S8700 Media Server.

NOTE-2: The S8500B Media Server has the same capacities as the S8500. When configured as an ESS for S8700 or S8710 Media Servers, both the S8500 and S8500B support the same capacities as the main server.

NOTE-3: The CSI does not support EPNs. ProLogix is usually configured as a CSI. G3SI information has been removed from this table since it is not a supported platform for Release 3.0 (The information is still available in the Release 2.0 System Capacities Table.)

NOTE-4: An asterisk (*) indicates that the software-defined capacity cannot be reached due to hardware or processor capacity limits for the platform.

NOTE-5: This column reflects G350 as an ICC (S8300/G350), not as an LSP. G350 ICC: (1) does NOT support subtending Media Gateways, (2) does NOT support Octaplane, but (3) does support Call Center applications. See the policy statement in footnote 71.4 for details. An ICC processor used as an LSP has the same support capacities as the primary server.

NOTE-6 Platforms removed from the Release 3.0 System Capacities Table: (1) Category B Offer; (2) G3R, (3) G3SI, (4) S8100. You can obtain Information for these platforms from the Release 2.2 System Capacities Table.

NOTE-7: For the S8300 Media Server (with G350 and G700 Media Gateways): Due to memory needs, Communication Manager Release 2.1 and beyond requires the S8300B Media Server if configured as ICC or LSP.

NOTE-8: G150 Remote Office Gateway is an H.323-based Media Gateway. The system capacity limits for Remote Office Gateways is also 250. But, this capacity is separate from the capacity limit of 250 for H.248 Media Gateways such as the G250, G350, and G700.

NOTE-9: G3SI offer End-of-Sale. For New Systems: The last date we can sell new G3SI systems is the end of June 2005. For Upgrades: The end date for upgrades is December 2005. Software Release: The last software release we will support G3SI is Communication Manager Release 2.2.

NOTE-10: Call Center support certification with the G250 is limited to basic ACD when in ICC configurations (with the S8300). Full Call Center support (both basic and Elite offers) has only been certified with the G250 when used in ECC configurations as a subtending gateway served by S8710 or S8500B.

10 ABBREVIATED DIALING								
15	AD Lists Per System	2400*	11,003 ⁶⁸	11,003 ⁶⁸	11,003 ⁶⁸	2,400	2400 *	2400 *
20	AD List Entry Size	24	24	24	24	24	24	24
25	AD Entries Per System	12,000	250,000 ⁶⁹	250,000 ⁶⁹	250,000 ⁶⁹	12,000	12000*	12000*
30	Abbreviated Dialing Buttons¹							
35	Entries per System (same as maximum button capacities on the platform) ¹	See footnote 1	See footnote 1	See footnote 1	See footnote 1	See footnote 1	See footnote 1	See footnote 1
40	Enhanced List (System List)	1	2 ⁷⁰	2 ⁷⁰	2 ⁷⁰	1	1	1
45	Max. entries	10,000	10,000	10,000	10,000	10,000 ^{71.1}	10,000 ^{71.1}	10,000 ^{71.1}
50	Group Lists	100	1,000	1,000	1,000	100	100	100
55	Max. entries	100	100	100	100	100	100	100
60	Group lists / extension	3	3	3	3	3	3	3
65	System List	1	1	1	1	1	1	1
70	Max. entries	100	100	100	100	100	100	100
75	Personal Lists	2400*	10,000	10,000	10,000	2,400	2,400	2,400
80	Max. entries	100	100	100	100	100	100	100
85	Personal lists / extension	3	3	3	3	3	3	3
90	ANNOUNCEMENTS: See Footnote 105, and also info under the following: ACD, Call Vectoring, Hunt Groups, Recorded Announcements and S8300 Specific Capacities							
95	APPLICATIONS ADJUNCTS							
100	Asynchronous Links (RS232)	5	10	10	10	9	9	9
105	Asynchronous Links (CLAN)	NA	10	10	10			
110	CDR Output Devices ^{4,6}	2	2	2	2	2	2	2
115	Journal Printers : System Printer ^{4,6}	2:1	2:1	2:1	2:1	2:1	2:1	2:1

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ITEM		w/ CMC1	w/H.248 Media Gateways, H.323 Remote Office Gateways (including G150)	w/H.248 Media Gateways, H.323 Remote Office Media Gateways (including G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways, H.323 Remote Office Gateways (incl. G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways and H.323 Remote Office Gateways	No subtending H.248 Media Gateways	No subtending H.248 Media Gateways
120	Property Mgmt Systems ^{4,6}	1	1	1	1	NA	NA	NA
125	SES (Converged Communication Server) for SIP features and services: See Section on SIP							
130	Application Enablement Services (AES)							
135	AES Servers per CM	8	16	16	16	16	16	16
140	AES Server Connections per CM	8	16	16	16	16	16	16
145	AES Server Interfaces (Processor CLAN/CLAN Circuit Packs)	8	16	16	16	16*	16*	16*
150	Inbound Messages/Second Per AES Connection	200	200	200	200	200	200	200
155	Outbound Msgs/Second Per AES Connection	240	240	240	240	240	240	240
160	Msgs/Sec/System (full duplex)	240	720	720	720	240	240	240
165	Adjunct Links							
170	Maximum Links ^{4,1}	25	33	33	33	25	25	25
175	PPP Links/switch using CLAN board ^{4,1}	25	33	33	33	NA	NA	NA
180	IP Routes (with C-LAN) ^{4,1}	400	650	650	650	NA	NA	NA
185	Voice Processing Adjuncts							
190	Traditional AUDIX	NA	8	8	8	1	1	1
195	EMBEDDED AUDIX	1	NA	1	1	1	1 ^{71.4}	1 ^{71.4}
200	EMBEDDED AUDIX DCP Emulation	1	NA	1	1	NA	NA	NA
205	INTUITY AUDIX							
210	INTUITY AUDIX (Via Mode Code)	1 ^{4,2}	1 ^{4,2}	1 ^{4,2}	1 ^{4,2}	1 ^{4,2}	1 ^{4,2}	1 ^{4,2}
215	INTUITY AUDIX (Via TCP/IP)	1	8	8	8	1	1	1
220	INTUITY AUDIX (MAPD)	1	1	1	1	NA	NA	NA
225	Mode Code Voice Mail Systems	1 ^{4,2}	1 ^{4,2}	1 ^{4,2}	1 ^{4,2}	1 ^{4,2}	1 ^{4,2}	1 ^{4,2}
230	QSIG MWI Hunt Groups for QSIG-integrated Messaging Platforms ^{4,3}	NA	10	10	10	10	10	10
235	Modular Messaging							
240	Modular messaging (T1/E1 QSIG)	No Switch-based hard limits	No Switch-based hard limits	No Switch-based hard limits	No Switch-based hard limits	No Switch-based hard limits	No Switch-based hard limits	No Switch-based hard limits
245	Modular messaging H.323 QSIG (IP Now)	No Switch-based hard limits	No Switch-based hard limits	No Switch-based hard limits	No Switch-based hard limits	No Switch-based hard limits	No Switch-based hard limits	No Switch-based hard limits
250	Modular messaging Inband (Mode Code)	No Switch-based hard limits	No Switch-based hard limits	No Switch-based hard limits	No Switch-based hard limits	No Switch-based hard limits	No Switch-based hard limits	No Switch-based hard limits
255	Modular messaging over CLAN	8 per Switch	8 per Switch	8 per Switch	8 per Switch	NA	NA	NA
260	Other Adjuncts							
265	CMS C-LAN Adjuncts ^{4,5}	2	2	2	2	NA	NA	NA
270	TCP/IP Processor Channels (Includes Gateway Channels)	128	384	384	384	128	128	128
275	AUTOMATIC CALL DISTRIBUTION (ACD) NOTE-1: See end of table for CMS adjunct capacities. NOTE-2: See EAS Section for capacities with EAS active. NOTE-3: These capacities DO APPLY to S8300/G350 since Call Center applications are supported in BOTH ICC and ECC configurations.							
280	Announcements per Split	2	2	2	2	2	2	2
285	Announcements per System	128	3,000	3,000	3,000	3,000	3,000	3,000
290	Splits	99	2,000	2,000	2,000	99	99	99
295	ACD Members per Split	200	1,500	1,500	1,500	200	200	200
300	Max. Administered ACD members ^{4,4}	1,000	60,000	60,000	60,000	1,000	1,000	1,000
305	Logged-In Splits per Agent ⁵	4	4	4	4	4	4	4
310	Max. logged-in ACD agents (per system) when each logs into:⁶							
315	1 Split	500	5,200	5,200	1000	450 ^{71.1}	40 ^{71.1}	40 ^{71.1}
320	R13 CMS (See Note 80)	41,600	41,600	41,600	41,600	41,600	41,600	41,600
325	2 Splits	500	5,200	5,200	1000	450 ^{71.1}	40 ^{71.1}	40 ^{71.1}
330	R13 CMS (See Note 80)	41,600	41,600	41,600	41,600	41,600	41,600	41,600
335	3 Splits	333	5,200	5,200	1000	333 ^{71.1}	40 ^{71.1}	40 ^{71.1}
340	R13 CMS (See Note 80)	33,333	33,333	33,333	33,333	33,333	33,333	33,333

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ITEM		w/ CMC1	w/H.248 Media Gateways, H.323 Remote Office Gateways (including G150)	w/H.248 Media Gateways, H.323 Remote Office Media Gateways (including G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways, H.323 Remote Office Gateways (incl. G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways and H.323 Remote Office Gateways	No sub-tending H.248 Media Gateways	No sub-tending H.248 Media Gateways
345	4 Splits	250	5,200	5,200	1000	250 ^{71.1}	40 ^{71.1}	40 ^{71.1}
350	R13 CMS (See Note 80)	25,000	25,000	25,000	25,000	25,000	25,000	25,000
355	Queue Slots per Group ⁷	NA	NA	NA	NA	NA	NA	NA
360	Queue Slots per System ⁷	NA	NA	NA	NA	NA	NA	NA
365	ARS / AAR							
370	AAR/ARS Patterns (Shared)	254	999	999	999	254	254	254
375	Number of entries in ARS/AAR Analysis Tables (Max ARS/AAR Tables: 1 per location: 250 max locations on S8700/8500; 50 on S8300. Also see entry on "Locations" below)	2,000	8,000 ¹¹¹	8,000 ¹¹¹	8,000 ¹¹¹	4,000	4,000	4,000
380	Choices per RHNPA Table	12	24	24	24	12	12	12
385	Digit Conversion Entries	400	4000 ¹¹¹	4000 ¹¹¹	4000 ¹¹¹	2000	2000	2000
390	AAR/ARS Digit Conversion							
395	Digits Deleted for ARS/AAR	28	28	28	28	28	28	28
400	Digits Inserted for ARS/AAR	18	18	18	18	18	18	18
405	AAR/ARS Sub-Net Trunking							
410	Digits Deleted for ARS/AAR ⁹	28	28	28	28	28	28	28
415	Digits Inserted for ARS/AAR	36	36	36	36	36	36	36
420	Entries in each RHNPA Table	1,000	1,000	1,000	1,000	1,000	1,000	1,000
425	Facility Restriction Levels (FRLs)	8	8	8	8	8	8	8
430	Inserted Digit Strings ⁹	1,200	3,000	3,000	3,000	1,200	1,200	1,200
435	Patterns for Measurement							
440	Shared Patterns for Measurement	20	25	25	25	20	20	20
445	RHNPA (Remote Home Numbering Plan Area) Tables	32	250	250	250	32	32	32
450	Routing Plans	8	8	8	8	8	8	8
455	ARS Toll Tables	32	32	32	32	32	32	32
460	Entries per Toll Table	800	800	800	800	800	800	800
465	Trunk Groups in an ARS/AAR Pattern	6	16	16	16	6	6	6
470	UDP (Entries)	10,000	80,000	80,000	80,000	10,110	10,110	10,110
475	TOD Charts	8	8	8	8	8	8	8
480	Toll Analysis Table Entries	1,000	2,000 ¹¹¹	2,000 ¹¹¹	2,000 ¹¹¹	1,000	1,000	1,000
485	ASAI - See CALLVISOR ASAI							
490	ATTENDANT SERVICE (NOTE: IP Soft Console Capacities is a NEW ENTRY, but NOT a NEWLY INTRODUCED CAPACITY)							
495	Attendant Consoles(day:night) ¹⁰	16 (15:1)	28 (27:1)	28 (27:1)	28 (27:1)	16 (15:1)	16 (15:1)	16 (15:1)
500	IP Soft Consoles(day:night) ¹⁰	16 (15:1)	28 (27:1)	28 (27:1)	20 (27:1) ^{10.1}	16 (15:1)	16 (15:1)	5 (15:1)
505	Crisis Alert Stations (on Attendant consoles + Crisis Alert buttons on digital stations)	16 + 10	28 + 10 ^{10.2}	28 + 10 ^{10.2}	28 ^{10.1} + 10	16 + 10	16 + 10	16 + 10
510	Attendant Console 100s Groups/Attendant	20	20	20	20	20	20	20
515	Attendant Control Restriction Groups	96	96	96	96	96	96	96
520	Centralized Attendant Service							
525	Release Link Trunks at Branch	99	255	255	255	99	99	99
530	Release Link Trunk Group at Branch	1	1	1	1	1	1	1
535	Release Link Trunks at Main	400	4,000	4,000	4,000	400	400	400
540	Release Link Trunk Group at Main ¹¹	99	2,000	2,000	2,000	99	99	99
545	Other Access Queues							
550	Max. Number of Queues	12	12	12	12	12	12	12
555	Max. Number of Queue Slots ¹²	80	80	80	80	80	80	80
560	Size range of Reserved Queue	2 - 75	2 - 75	2 - 75	2 - 75	2 - 75	2 - 75	2 - 75
565	Reserved Queue Default Size	5	5	5	5	5	5	5
570	Attendant Queue Length	80	300	300	300	80	80	80
575	Switched Loops/Console	6	6	6	6	6	6	6
580	AUTHORIZATION							
585	Authorization Codes	5,000	90,000	90,000	90,000	5,000	5,000	5,000
590	Station Security Code Length	7	7	7	7	7	7	7
595	Classes of Restriction	96	96	96	96	96	96	96
600	Classes of Service	16	16	16	16	16	16	16

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605	Length of Authorization Code	4 - 13	4 - 13	4 - 13	4 - 13	4 - 13	4 - 13	
610	Length of Barrier Code	4-7	4-7	4-7	4-7	4-7	4-7	
615	Length of Account Codes ⁹³	1 - 15	1 - 15	1 - 15	1 - 15	1 - 15	1 - 15	
620	Restricted Call List	1	1	1	1	1	1	
625	Remote Access Barrier Codes	10	10	10	10	10	10	
630	CDR Account Code List	1	1	1	1	1	1	
635	Toll Call List	1	1	1	1	1	1	
640	Unrestricted/Allowed Call Lists	10	10	10	10	10	10	
645	Total Call List Entries	1,000	1,000	1,000	1,000	1,000	1,000	
AUTOMATIC CALL BACK (ACB) CALLS								
655	Max ACB Calls	240	1,500	1,500	1,500	240	240	
AUTOMATIC WAKEUP								
665	Simultaneous Display Requests	10	30	30	30	10	10	
670	Wakeup Requests per System	2,400	15,000	15,000	15,000	2,400	2,400	
675	Wakeup Request per Extension	2	2	2	2	2	2	
680	Wakeup Requests per 15 min Interval ²⁰	450	950	950	950	450	450	
BASIC CALL MANAGEMENT SYSTEM (BCMS)								
685	Measured Agents or Login Ids	400	3,000	3,000	3,000	400 ^{71.1}	400 ^{71.1}	
695	Measured Agents Per Split/Skill	200	1500 / 3000 ¹⁵	1500 / 3000 ¹⁵	1500 / 3000 ¹⁵	200	200	
700	Measured Splits/Skills	99	600	600	600	99	99	
705	Measured Agent-split/skill pairs	1,000	40,000	40,000	40,000	1,000	1,000	
710	Measured Trunk Groups	32	32	32	32	32	32	
715	Measured VDNs	99	512	512	512	99	99	
720	Max. Agents Displayed by Monitor BCMS Split Command ^{12.1}	100	100	100	100	100	100	
725	Max. BCMS Terminals	3	4	4	4	3	3	
730	Max. Active Maintenance Commands for System	1	15	15	15	1	1	
735	Max. Simultaneous BCMS Terminals in Monitor Mode ^{12.2}	1	13	13	13	1	1	
Reporting Periods								
745	Intervals	25	25	25	25	25	25	
750	Days	7	7	7	7	7	7	
BRIDGING (See entry below for CALL APPEARANCES and BRIDGED CALL APPEARANCES)								
CABINETS								
Inter-Port Network Connectivity								
770	Port Networks (see footnote for migration)	1	64	64	64	NA	NA	
775	Max No. of Port Networks per MCC Cabinet	1	NA	5	NA ⁶⁷	NA	NA	
780	Switch Nodes (Simplex)	NA	NA	3	NA	NA	NA	
785	Switch Nodes (Duplex)	NA	NA	6	NA	NA	NA	
790	DS1 Converter Complex (Simplex)	NA	41	41	41	NA	NA	
795	DS1 Converter Complex (Duplex)	NA	NA	82	NA	NA	NA	
800	EPN ¹³							
805	MCC	NA	NA	64	NA ⁶⁷	NA	NA	
810	SCC	NA	NA	64 (4/stk)	3 (4/stk)	NA	NA	
815	CMC	NA	64 (3/stk)	NA	64 (3/stk)	NA	NA	
820	G600 (19" Rack Mount)	NA	64(4/stk)	NA	64(4/stk)	NA	NA	
825	G650 (19" Rack Mount)	NA	64 (5/stk)	64 (5/stk)	64 (5/stk)	NA	NA	
830	PPN							
835	CMC	3	NA	NA	NA	NA	NA	
840	G600 19" Rack Mount Cabinet	NA	NA	NA	NA	NA	NA	
CALL APPEARANCES and BRIDGED CALL APPEARANCES								
850	Call Appearances per Station ¹⁶	54	54	54	54	54	54	
855	Max. Call Appearances per Ext.	10	10	10	10	10	10	
860	Min. Call Appearances per Ext.	0	0	0	0	0	0	
865	Primary Extension Bridging							

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870	System-wide Maximum Bridged Appearances	900	80,000	80,000	80,000	2,400	2,400	2,400
875	Max. Simultaneously Active (Off-hook) Bridge Users on a Call (excluding principal and the calling/called party on the call) ¹⁷	5	5	5	5	5	5	5
880	Max Number of Bridges to a Principal's Call Appearance ¹⁵ (See below for extended numbers)	25	25	25	25	25	25	25
885	Total Users with Bridged Appearances (Station User maximum)	900	36,000 ^{71.2}	36,000 ^{71.2}	36,000 ^{71.3}	2,400 ^{71.1}	2400 ^{71.4}	2400 ^{71.4}
890	Max Number Bridges to a Principal's Call Appearance with Extension that allows additional bridges ¹⁵	63	63	63	63	63	63	63
895	Number of Principals that can have the Extended number of Bridges	50	1,250	1250	1,250	1250	1250	1250
900	CALL COVERAGE							
905	Coverage Answer Groups (CAG)	200	9000 ³³	9000 ³³	9000 ³³	200	200	200
910	Coverage Paths	2000	9999	9999	9999	2000	2000	2000
915	Coverage Paths Incl. in Call Coverage. Report	100	200	200	200	100	100	100
920	Coverage Path per Station	2	2	2	2	2	2	2
925	Coverage Points in a Path	6	6	6	6	6	6	6
930	Remote Coverage Points	999	10,000	10,000	10,000	999	999	999
935	Max Users/Coverage Path	2,000 ⁹⁷	47,088	47,088	47,088	2,000 ⁹⁷	2,000 ⁹⁷	2,000 ⁹⁷
940	Members per CAG	3500*	8	8	8	8	8	8
945	Time of Day Coverage Tables	8	8	8	8	8	8	8
950	Time of Day Changes per Table	999	999	999	999	999	999	999
955	Remote Admin Coverage Paths	5	5	5	5	5	5	5
960	Remote Admin Coverage Paths	2	2	2	2	2	2	2
960	CALL DETAIL RECORDING							
965	Intra-switch Call Trackable Extensions ¹¹⁹	1,000	5,000	5,000	5,000	1,000	1,000	1,000
970	Max. No. of CDR Records That Can Be Buffered in the Switch ^{54.1}	500	17,326	17,326	17,326	500	500	500
975	No. of Records Buffered for the Primary. Output Device That Will Cause Secondary Device to be Busied Out for 2 Minutes ^{54.1}	200	1,900	1,900	1,900	200	200	200
980	CALL FORWARDING							
985	Call Forwarded Digits (off-net)	16	16	16	16	16	16	16
990	Total number of Call Forwarded stations	2,400	36000 ^{71.2}	36,000 ^{71.2}	36000 ^{71.3}	2400 ^{71.1}	2400 ^{71.1}	2400 ^{71.1}
995	CALL PARK							
1000	Attendant. Group. Common Shared Ext. Numbers. Per System ¹⁹	80	80	80	80	80	80	80
1005	No. of Parked Calls	723	10,604	10,604	10,604	723	723	723
1010	CALL PICKUP GROUPS: (based on station user max)							
1015	Call Pickup Members/Group	50	50	50	50	50	50	50
1020	Call Pickup Members/System	900	36,000	36,000	36,000	2400 ^{71.1}	2400 ^{71.1}	2400 ^{71.1}
1025	No. of Groups	800	5,000	5,000	5,000	800	800	800
1030	CALL VECTORING.							
1035	Skills a Call Can Simultaneously Queue to	3	3	3	3	3	3	NA
1040	Priority Levels	4	4	4	4	4	4	NA
1045	Recorded Announcements/Audio Sources for Vector Delay	128	3,000	3,000	3,000	3,000	3,000	NA
1050	Vector Steps per Vector	32	32	32	32	32	32	NA
1055	Vector Directory Numbers	512	20,000	20,000	20,000	512	512	NA
1060	CMS Measured VDNs	512	20,000	20,000	20,000	512	512	NA
1065	R13 CMS	20,000	20,000	20,000	20,000	20,000	20,000	NA
1070	Vectors per System	256	999	999	999	256	256	NA
1075	R13 CMS ⁸⁰	7,992	7,992	7,992	7,992	7,992	7,992	NA

Avaya Communication Manager		G3 CSI	Release 3.0 Linux Server Platforms					
			S8700, S8710 IP Connect	S8700, S8710 Multi Connect	S8500, S8500B See Note-2 and 71.3	S8300 /G700	S8300 /G350 See Note-5	S8300 /G250 See Note-10
ITEM		w/ CMC1	w/H.248 Media Gateways, H.323 Remote Office Gateways (including G150)	w/H.248 Media Gateways, H.323 Remote Office Media Gateways (including G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways, H.323 Remote Office Gateways (incl. G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways and H.323 Remote Office Gateways	No subtening H.248 Media Gateways	No subtening H.248 Media Gateways
1080	Simultaneous Active Subroutine Calls	400	8,000	8,000	8,000	400	400	NA
1085	Number of Collected Digits for Call Prompting or CINFO	16	16	16	16	16	16	NA
1090	Number of Dial-Ahead Digits for Call Prompting	24	24	24	24	24	24	NA
1095	Vector Routing Tables (100 entries per table)	10	100	100	100	10	10	NA
1100	BSR Application Routing Tables (forms)	255	511	511	511	255	255	NA
1105	BSR Application-Location Pairs ^{20,5}	1,000	2560	2560	2560	1,000	1,000	NA
1110	Holiday Tables (15 entries per table)	99	99	99	99	99	99	NA
1115	CALLVISOR ASAI (system wide limits shown unless otherwise noted - each limit is achievable on a single link)							
1120	Adjunct Control Associations per Call (3rd party make call or take control)	1	1	1	1	1	1	1
1125	Active Adjunct Control Associations (Simultaneous Active Call Controlled Calls and Max Adj. Transaction Records)	600	8,000	8,000	8,000	600	600	600
1130	Active Adjunct Route Requests	300	2,000 or 4,000 ¹¹²	2,000 or 4,000 ¹¹²	2,000 or 4,000 ¹¹²	300	300	300
1135	Active Notifications per Call	3	6	6	6	6	6	6
1140	Active Notifications per Split Domain	3	6	6	6	6	6	6
1145	Active Notifications per VDN Domain	3	6	6	6	6	6	6
1150	Domain-Control Associations per Call	12	24	24	24	24	24	24
1155	3rd-pty Domain-Control Station Associations (Active Sta. Control Assoc.) - i.e., Domain Trans. Records	2,000	21,000	21,000	21,000	2,000	2,000	2,000
1160	Domain-Control Split/Skill Associations	300	2,000	2,000	2,000	300	300	300
1165	Domain-controllers per Station Domain	2	4	4	4	4	4	4
1170	Domain-controllers per Split/skill Domain	4	8	8	8	8	8	8
1175	Event Notification Associations	300	10,000	10,000	10,000	300	300	300
1180	Max. Calls With Send DTMF Active	16	32	32	32	32	32	32
1185	Max Simultaneous Calls Being Classified	80	600	600	600	600	600	600
1190	Simultaneous Billing (MultiQuest) Requests	100	1,000	1,000	1,000	100	100	100
1195	Simultaneous Selective Listening Disconnected Paths	75	300	300	300	75	75	75
1200	ASAI Traffic							
1205	Messages/Second Per ASAI/BRI Link	30	30	30	30	30?	30?	30?
1210	Inbound Msgs/Sec Per MAPD CTI Link	120/200 ¹⁰⁹	200	200	200	NA	NA	NA
1215	Outbound Msgs/Sec Per MAPD CTI Link	120/240 ¹⁰⁹	240	240	240	NA	NA	NA
1220	Msg/Sec per MAPD (full duplex)	120/240 ¹⁰⁹	240	240	240	NA	NA	NA
1225	Msgs/Sec. Per ASAI/ADJUNCT IP Link (full duplex)	240	720	720	720	240	240	240
1230	Msgs/Sec/System (full duplex)	120/240 ¹⁰⁹	720	720	720	240	240	240
1235	Maximum CTI Links							
1240	Maximum ASAI Links (Open and Proprietary)	8	16	16	16	16	16	16
1245	CTI Links per MFB	NA	4	4	4	NA	NA	NA
1250	CTI Links per MAPD	8	8	8	8	NA	NA	NA
1255	CONFERENCE							
1260	Maximum Number of Parties in a Conf	6	6	6	6	6	6	6
1265	Simultaneous 3-way Conf. Calls ²¹	161	10,304	10,304	10,304	157/MG	157	157
1270	Simultaneous 6-way Conf. Calls ²²	80	5,152	5,152	5,152	78/MG	78	78
1275	Meet-Me Conferencing							
1280	Max. No. of Conference Parties	3-6	3-6	3-6	3-6	3-6	3-6	3-6
1285	Max Required Security Code Length	0 or 6	0 or 6	0 or 6	0 or 6	0 or 6	0 or 6	0 or 6
1290	Meet-Me Conference VDNs	175	1,800	1,800	1,800	175	175	175
1295	Expanded Meet-Me Conferencing (EMMC) NOTE: The Meet-me Conf VDN Maximums apply to EMMC as well.							
1300	Maximum EMMC Ports	NA	300	300	300	300	300	300
1305	Conferees in EMMC:	NA	3-300	3-300	3-300	3-300	3-300	3-300
1310	DATA PARAMETERS							
1315	Administered Connections	128	128	128	128	NA	NA	NA
1320	Alphanumeric Dialing							
1325	Max. entries	200	1,250	1,250	1,250	NA	NA	NA

Avaya Communication Manager		Release 3.0 Linux Server Platforms						
		G3 CSI	S8700, S8710 IP Connect	S8700, S8710 Multi Connect	S8500, S8500B See Note-2 and 71.3	S8300 /G700	S8300 /G350 See Note-5	S8300 /G250 See Note-10
ITEM	w/ CMC1	w/H.248 Media Gateways, H.323 Remote Office Gateways (including G150)	w/H.248 Media Gateways, H.323 Remote Office Media Gateways (including G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways, H.323 Remote Office Gateways (incl. G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways and H.323 Remote Office Gateways	No subtending H.248 Media Gateways	No subtending H.248 Media Gateways	
1330	Characters/Entry	22	22	22	22	NA	NA	NA
1335	PRI Endpoints (PE)	25	50	50	50	NA	NA	NA
1340	Access Endpoints(# of Trunks)	400	8000	8000	8000	NA	NA	NA
1345	Multimedia Parameters							
1350	TN787D MMI Circuit Packs	4	NA	12	12	NA	NA	NA
1355	TN788B VC Circuit Packs	25	NA	69	69	NA	NA	NA
1360	MMI and VC Circuit Packs in Multiple PN	NA	NA	Yes	Yes	NA	NA	NA
1365	Multimedia One Number Conferences Per System	800	NA	2,000	2,000	NA	NA	NA
1370	Multimedia Dynamic Conference Records	64	NA	192	192	NA	NA	NA
1375	Maximum Number of BRI Connections ¹⁰¹	1,000	7,000	7,000	7,000	1,000	1000 *	1000 *
1380	Digital Data Endpoints	800	7,500	7,500	7,500	NA	NA	NA
1385	DIAL PLAN							
1390	DID LDNs	8	20	20	20	8	8	8
1395	Maximum Extensions (of all types) ²⁴	3500*	49,733	49,733	49,733	3,500	3,500	3,500
1400	Station Extensions (part of the total extensions above) ^{24,1}	2416*	36,051	36,051	36,051	2,416	2,416	2,416
1405	Miscellaneous Extensions (part of the total extensions above) ²⁵	900	26,258	26,258	26,258	900	900	900
1410	Extension No. Portability (UDP Entries)	10,000	80,000	80,000	80,000	10,110	10,110	10,110
1415	Feature Dial Access Codes							
1420	Number of Codes ¹⁰⁰	121	122	122	122	122	122	122
1425	No. of Digits in a Feature Access Code	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4
1430	Integrated Directory Entries ²⁷	2,416	36,028	36,028	36,028	2,416	2,416	2,416
1435	Maximum Extension Size	7	7	7	7	7	7	7
1440	Minimum Extension Size	1	1	1	1	1	1	1
1445	Names							
1450	No. of names ²⁸	4,215	48,845	48,845	48,845	4,215	4,215	4,215
1455	No. of characters in a name	27	27	27	27	27	27	27
1460	Non-DID LDNs	50	666	666	666	50	50	50
1465	EXTENSIONS (total)²⁴							
1470	Prefix Extensions	Yes	Yes	Yes	Yes	Yes	Yes	Yes
1475	Prefix Extensions Lengths ⁹⁹	2-6	2-6	2-6	2-6	2-6	2-6	2-6
1480	Trunk Dial Access Codes							
1485	No. of Dial Access Codes	317	2,218	2,218	2,218	317	317	317
1490	No. of digits in DAC	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4
1495	Locations¹⁰⁶	10	250 ¹⁰⁶	250 ¹⁰⁶	250 ¹⁰⁶	50	50	50
1500	DO NOT DISTURB (DND)							
1505	DND Requests per System	2,400	36,000	36,000	36,000	2400 ^{71.1}	2400 ^{71.1}	2400 ^{71.1}
1510	Simultaneous Display Requests	10	30	30	30	10	10	10
1515	DISPLAY							
1520	Display Formats	50	50	50	50	50	50	50
1525	Simultaneous Updating Displays	100	500	500	500	100	100	100
1530	EXTENSION TO CELLULAR, OPTIM¹⁰⁵							
1535	Extension to Cellular Station Capacity ¹⁰⁴	450	36000	36,000	2400	450	450	450
1540	OPTIM-OPS stations (for SIP and Motorola endpoints) (offer limit)	450	36000	36,000	2400	450	450	450
1545	Extension to Cellular, OPTIM Mapping Table Capacity	45	36,000 ^{71.2}	36,000 ^{71.2}	36,000 ^{71.3}	1200	1200	1200
1550	Station Capacity Based Max Extension to Cellular Users, with Typical configuration of 1 Principal + 2 XMOBILES ¹⁰⁵	300	36,000 ^{71.2, 105}	36,000 ^{71.2, 105}	36,000 ^{71.3, 105}	800 ^{71.1, 105}	800 ^{71.4, 105}	800 ^{71.4, 105}
1555	EXPERT AGENT SELECTION (EAS) (note 83)							
1560	Skill Groups	99	2,000	2,000	2,000	99	99	NA
1565	VDN Skill Preferences	3	3	3	3	3	3	NA
1570	Max. Skills a Call Can Simultaneously Queue to	3	3	3	3	3	3	NA

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ITEM		w/ CMC1	w/H.248 Media Gateways, H.323 Remote Office Gateways (including G150)	w/H.248 Media Gateways, H.323 Remote Office Media Gateways (including G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways, H.323 Remote Office Gateways (incl. G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways and H.323 Remote Office Gateways	No subtening H.248 Media Gateways	No subtening H.248 Media Gateways
1575	Max. Administered ACD Members (login ID / Agent-Skill pairs) ^{28.1}	6,000	180,000	180,000	180,000	6,000	6,000	NA
1580	Max. Staffed (logged-in) ACD Members ^{28.3} i.e., agent-skill pairs	1,000	60,000	60,000	60,000	1,000	1,000	NA
1585	R13 CMS (See Note 80)	100,000	100,000	100,000	100,000	100,000	100,000	NA
1590	Max. Administered Agent Login IDs ^{28.4}	1,500	20,000	20,000	20,000	1,500	1,500	NA
1595	Max. Skills per Agent							
1600	R13 CMS	20	60	60	60	20	20	NA
1605	Skill Levels (preferences) per Agent Skill	16	16	16	16	16	16	NA
1610	Max. Staffed (logged-in) EAS Agents per Skill (members per group)	200	3,000	3,000	3,000	200	200	NA
1615	Max. Logged in EAS Agents (per system) When Each Has:⁶							
1620	1 Skill	500	5,200	5,200	1,000	450 ^{71.1}	40 ^{71.1}	NA
1625	R13 CMS (See Note 80)	41,600	41,600	41,600	41,600	41,600	41,600	NA
1630	2 Skills	500	5,200	5,200	1,000	450 ^{71.1}	40 ^{71.1}	NA
1635	R13 CMS (See Note 80)	41,600	41,600	41,600	41,600	41,600	41,600	NA
1640	4 Skills	250	5,200	5,200	1,000	250 ^{71.1}	40 ^{71.1}	NA
1645	R13 CMS (See Note 80)	25,000	25,000	25,000	25,000	25,000	25,000	NA
1650	10 Skills	100	5,200	5,200	1,000	100	40	NA
1655	R13 CMS	10,000	10,000	10,000	10,000	10,000	10,000	NA
1660	20 Skills	50	3,000	3,000	1,000	50	40	NA
1665	R13 CMS	5,000	5,000	5,000	5,000	5,000	5,000	NA
1670	60 Skills (R12 or later CMS Required)	NA	1,000	1,000	1,000	NA	NA	NA
1675	R13 CMS	NA	1,666	1,666	1,666	NA	NA	NA
1680	EXTERNAL DEVICE ALARMING	32	NA	90	90	32	32	NA
1685	FACILITY BUSY INDICATORS							
1690	Buttons per Tracked Resource	100	500	500	500	100	100	100
1695	No. of Station Busy Indicators (SBI)	3,600	10,000 25,000 ⁹⁵	10,000 25,000 ⁹⁵	10,000 25,000 ⁹⁵	3,600	3,600	3,600
1700	Facility Busy Indicators per system (SBIs + Queue Status buttons + ((24 DTGS buttons and 2 SBIs on each Attendant) * Attendant Max)	4,516	15,928 30,928 ^{95.1}	15,928 30,928 ^{95.1}	15,928 30,928 ^{95.1}	4,516	4,516	4,516
1705	HUNT GROUPS (NON ACD)^{28.5}							
1710	Announcements per Group	1	1	1	1	1	1	1
1715	Announcements per System (See Footnote 18)	128	3,000	3,000	3,000	3,000	3,000	3,000
1720	Total Hunt Groups	99	2,000	2,000	2,000	99	99	99
1725	Members per Group	200	1,500	1,500	1,500	200	200	200
1730	Group Members per System ^{28.5}	1,000	10,000	10,000	10,000	1,000	1,000	1,000
1735	Queue Slots per Group ⁷	NA	NA	NA	NA	NA	NA	NA
1740	INTERCOM TRANSLATION TABLE (ICOM): Automatic, Manual and Dial							
1745	ICOM groups per system	32	256	256	256	32	32	32
1750	Auto/Manual	32	256	256	256	32	32	32
1755	Dial	32	256	256	256	32	32	32
1760	Members per ICOM group							
1765	Auto	32	32	32	32	32	32	32
1770	Dial	32	32	32	32	32	32	32
1775	Members per System	1,024	8,192	8,192	8,192	1,024	1,024	1,024
1780	IP and SIP SPECIFIC CAPACITIES							
1785	IP Attendant Consoles and Soft Console capacities: See Attendant category							
1790	Total IP ports (including Stations and trunks) ^{81.1} (See entries under the PORTS category for total ports, including ALL port types)	1500	12000 ^{71.2}	12000 ^{71.2}	12000 ^{71.3}	900 ^{71.1} (450+450)	900 ^{71.4} (450+450)	900 ^{71.4} (450+450)
1795	TN799 Circuit Packs (CLAN) ⁸¹	8	64	64	64	NA	NA	NA
1800	Maximum of all IP Media Resources (TN802B + TN2302AP + TN2602AP) ^{71.0}	8	200	200	200	built-in VOIP engine	built-in VOIP engine	built-in VOIP engine

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ITEM		w/ CMC1	w/H.248 Media Gateways, H.323 Remote Office Gateways (including G150)	w/H.248 Media Gateways, H.323 Remote Office Media Gateways (including G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways, H.323 Remote Office Gateways (incl. G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways and H.323 Remote Office Gateways	No subtending H.248 Media Gateways	No subtending H.248 Media Gateways
1805	TN2602AP Circuit Packs (IP Media Resource 80) (offer limit)	2	128	128	128	NA	NA	NA
1810	TN2602AP Circuit Packs (IP Media Resource 320) (offer limit)	2	128	128	128	NA	NA	NA
1815	Maximum Port Networks and G650s	NA	64	64	64	NA	NA	NA
1820	System-wide Maximum H.248 Media Gateways (G250, G350, G700)	NA	250 ^{71.2}	250 ^{71.2}	250 ^{71.3}	50 ^{71.1}	NA	NA
1825	Maximum H.323 Media Gateways (G150, R300, MultiTech) - NOT part of the H.248 MG limits	80	250	250	250	50	50	50
1830	H.248 Media Gateways per LSP	NA	50 ^{71.2}	50 ^{71.2}	50 ^{71.3}	50	NA	NA
1835	Maximum administered H.323 (IP) trunks	400	8000	8000	8,000	450	450	450
1840	Max H.323 Stations (part of the Overall Sta. Max) ⁴⁵	900	12,000	12,000	12,000	450 ^{71.1}	450 ^{71.4}	450 ^{71.4}
1845	Maximum IP Agents (offer limit)	500	5,200	5,200	1,000	450	40	40
1850	ISDN/IP Trunks (pool of ISDN, IP, and SIP trunk Ports). For SIP Trunk Max: See SIP Server below.	400	8000 ^{71.2}	8,000	8000 ^{71.3}	450 ^{71.1}	450 ^{71.4}	450 ^{71.4}
1855	Signaling Groups ⁶⁰	110	650	650	650	650	650 *	650 *
1860	H.323 Video Capabilities							
1865	Video-Capable IP trunks (same as IP trunks limit)	NA ¹¹⁶	8000 ¹¹⁶	8000 ¹¹⁶	8000 ¹¹⁶	450 ¹¹⁶	450 ¹¹⁶	450 ¹¹⁶
1870	Video-Capable Stations (same as IP Stations limit - see Voice Terminals Section)	NA ¹¹⁶	12000 ¹¹⁶	12000 ¹¹⁶	2400 ¹¹⁶	450 ^{71.1, 116}	450 ^{71.4, 116}	450 ^{71.4, 116}
1875	Maximum Video Capable IP Softphones (offer limit)	900	12000	12000	2400	450	450	450
1880	Number of Simultaneous Video Calls	NA ¹¹⁶	1,000	1,000	1,000	100	100	100
1885	Remote Office Feature Group (Also see Footnote 114)							
1890	Remote Office Gateways (R300, and H.323 RO Gateway G150)	See entry for H.323 MGs above	See entry for H.323 MGs	See entry for H.323 MGs above	See entry for H.323 MGs	See entry for H.323 MGs above	See entry for H.323 MGs	See entry for H.323 MGs above
1895	Maximum Administered Remote Office Stations (offer limit)	900	12000	12000	2400	450	450	450
1900	Maximum Administered Remote Office Trunks (offer limit)	400	8000	8000	800	450	450	0
1905	SIP Enablement Services (SES, a.k.a. CCS)							
1910	SIP Maximum Trunks supported (Linux platforms only). Part of ISDN/IP/SIP trunk pool	NA	2,000 ^{71.2}	2,000 ^{71.2}	800 ^{71.2}	450 ^{71.1}	450	10
1915	SIP-SES: Number of Edge Nodes	NA	1	1	1	1	1	1
1920	SIP-SES: Number of Home Nodes	NA	20	20	20	20	20	20
1925	SIP-SES: Number of SIP Users per Home Node (Performance Pack: See Footnote 120)	NA	3,500 ¹²⁰	3,500 ¹²⁰	3,500 ¹²⁰	3,500 ¹²⁰	3,500 ¹²⁰	3,500 ¹²⁰
1930	SIP-SES: Number of IM (Instant Message) Clients per node	NA	500	500	500	500	500	500
1935	Japanese SIP Handset							
1940	Maximum Terminals per System (same as Station User maximum)	NA	36000	36000	2400	450	450	450
1945	Maximum Bridged Call Appearances and Extended Bridged Groups: See the entry under Call APPEARANCES and BRIDGED CALL APPEARANCES							
1950	SBS (Separation of Bearer and Signaling)							
1955	SBS Trunks	0	1,000	1,000	1,000	NA	NA	NA
1960	SBS Stations	0	500	500	500	NA	NA	NA
1965	S8300-Specific Capacities (NOTE: Some of these are applicable to S8300/G700 but Not applicable to S8300/G350). For example, G700 supports stacked media gateways, but G350 does not).							
1970	Max Media Modules per Stacked Gateway (4MMs per MG)	NA	NA	NA	NA	40 (10MGs*4)	NA ^{71.4}	NA ^{71.4}
1975	Total TTRs per Stacked Gateway (10 MGs/stack)	NA	NA	NA	NA	64	16	16
1980	Tone Detection Devices per Gateway (General) ³⁹	NA	NA	NA	NA	15	15	15
1985	ASAI CTI Links	NA	NA	NA	NA	16 (with ICC)	16 (with ICC)	16 (with ICC)
1990	Embedded Voice Mail							
1995	Number of Mail Boxes	NA	NA	NA	NA	450	450 ^{71.4}	450 ^{71.4}

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ITEM	w/ CMC1	w/H.248 Media Gateways, H.323 Remote Office Gateways (including G150)	w/H.248 Media Gateways, H.323 Remote Office Media Gateways (including G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways, H.323 Remote Office Gateways (incl. G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways and H.323 Remote Office Gateways	No subten- ing H.248 Media Gate- ways	No subten- ing H.248 Media Gate- ways	
2000	Number of Ports	NA	NA	NA	NA	8	8	8
2005	Number of Hours of Storage	NA	NA	NA	NA	1400	1400	1400
2010	Embedded Announcements							
2015	Announcement Files	NA	NA	NA	NA	256	256	256
2020	Minutes of Recording	NA	NA	NA	NA	20	10	10
2025	Number of Simultaneous Playback Channels	NA	NA	NA	NA	15	6	6
2030	Number of Record Channels	NA	NA	NA	NA	1	1	1
2035	LAST NUMBER DIALED							
2040	Entries/System ²⁹	3,216	43,528	43,528	43,528	3,216	3,216	3,216
2045	Number of Digits	24	24	24	24	24	24	24
2050	LEAVE WORD CALLING (SWITCH BASED) and MESSAGE WAITING							
2055	System-wide Messages Stored	2,000	6,000	6,000	6,000	2,000	2,000	2,000
2060	Max Remote Leave Word Calling Messages	1,000	2,000	2,000	2,000	1,000	1,000	1,000
2065	Messages per User	125	125	125	125	125	125	125
2070	Remote Message Waiting Indicators							
2075	Per Extension	80	80	80	80	80	80	80
2080	Per System (Linux Servers: Station user max / 20; G3CSI: Station user max / 10)	90	1800 ¹¹⁷	1800 ¹¹⁷	1800	240	240	240
2085	Simultaneous Message Retrievers	60	400	400	400	60	60	60
2090	System-wide Super Message Retrievers (can retrieve anyone's messages)	10	10	10	10	10	10	10
2095	MALICIOUS CALL TRACE							
2100	Max. Simultaneous Traces	16	16	16	16	16	16	16
2105	MULTIPLE LISTED DIRECTORY NUMBERS (MLDN)							
2110	Via DID	8	20	20	20	8	8	8
2115	Via DID w/Tenant Partition	20	100	100	100	20	20	20
2120	Via CO	99	2000	2000	2000	99	99	99
2125	MODEM POOL GROUPS - Mode 2/Analog							
2130	Group members per system	160	NA	2,016	2,016	160	160	160
2135	Number of groups	5	NA	63	63	5	5	5
2140	Members per group	32	NA	32	32	32	32	32
2145	NETWORKING (Also see Trunks)							
2150	CAS RLT Nodes	99	99	99	99	99	99	99
2155	DCS Nodes³¹							
2160	TCP/IP	63*	63	63	63	63*	63*	63*
2165	ISDN PRI (Public and/or Private)	63*	63	63	63	63*	63*	63*
2170	Hybrid (combination of PRI, BX.25, & TCP/IP)	63*	63	63	63	63*	63*	63*
2175	ENP Nodes ³²	999	999	999	999	999	999	999
2180	QSIG Nodes: No Fixed Node Capacity See Footnote 73.							
2185	QSIG/DCS Interworked Nodes⁷⁶	63*	63	63	63	63*	63*	63*
2190	PAGING							
2195	Code Calling IDs	125	125	125	125	125	125	125
2200	Loudspeaker Zones	9	9	9	9	9	9	9
2205	Group Paging using Speaker Phone⁵⁰							
2210	Number of groups	32	32	32	32	32	32	32
2215	Members per Group	32	32	32	32	32	32	32
2220	PARTITIONS							
2225	Attendant Group	15	27	27	27	15	15	15
2230	Tenant Partition	20	100	100	100	20	20	20
2235	Multiple Music on Hold Sources	20	100	100	100	20	20	20
2240	PERSONAL CO LINES (PCOL)							
2245	PCOL Appearances	16	16	16	16	16	16	16
2250	PCOL Lines (Trunk Groups)	200	200	200	200	200	200	200
2255	PCOL Trunks Per Trunk Group	1	1	1	1	1	1	1
2260	PORTS (Max Ports incl. Stations and trunks)							

Avaya Communication Manager		Release 3.0 Linux Server Platforms						
		G3 CSI	S8700, S8710 IP Connect	S8700, S8710 Multi Connect	S8500, S8500B See Note-2 and 71.3	S8300 /G700	S8300 /G350 See Note-5	S8300 /G250 See Note-10
ITEM	w/ CMC1	w/H.248 Media Gateways, H.323 Remote Office Gateways (including G150)	w/H.248 Media Gateways, H.323 Remote Office Media Gateways (including G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways, H.323 Remote Office Gateways (incl. G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways and H.323 Remote Office Gateways	No subtending H.248 Media Gateways	No subtending H.248 Media Gateways	
2265	Maximum Ports on System (Stations and Trunks)	1,300	44000 ^{71.2} (36k+8k)	44000 ^{71.2} (36k+8k)	3200 ^{71.3} (2400+800)	900 ^{71.1} (2400+900)	900 ^{71.4} (2400+900)	900 ^{71.4} (2400+900)
2270	PORT CIRCUIT PACK SLOTS²⁴							
2275	Per EPN							
2280	MCC Std. Reliability	NA	NA	99	99	NA	NA	NA
2285	SCC Std. Reliability	NA	NA	71	71	NA	NA	NA
2290	Per PPN							
2295	MCC Std. Reliability	NA	NA	60,80	60,80	NA	NA	NA
2300	Small Cabinet Std. Reliability	NA	NA	33	33	NA	NA	NA
2305	CMC Std. Reliability	28	NA	NA	NA	NA	NA	NA
2310	RECORDED ANNOUNCEMENTS / AUDIO SOURCES FOR VECTOR DELAY							
2315	Announcement/Audio Sources per System ¹⁸	128	3,000	3,000	3,000	3,000	3,000	3,000
2320	Analog & Aux Trunk Announcements							
2325	Queue Slots per Announcement	150	1,000	1,000	1,000	1,000	1,000	1,000
2330	Queue Slots per System	150	1,000	1,000	1,000	1,000	1,000	1,000
2335	Calls Connected to Same Announcement	150	1,000	1,000	1,000	1,000	1,000	1,000
2340	Integrated Announcements							
2345	Queue Slots for System	200	4,000	4,000	4,000	4,000	4,000	4,000
2350	Calls Connected to Same Announcement	50	1,000	1,000	1,000	1,000	1,000	1,000
2355	TN2501 Circuit Packs (VAL)	5	10	10	8	NA	NA	NA
2360	Total Announcement Sources: Integrated Circuit Packs on G650s (up to 10) plus embedded vVAL Sources on G250/G350/700 MGs	5	10 TN2501 + 250 vVAL	10 TN2501 + 250 vVAL	10 TN2501 + 250 vVAL	50 vVAL Annc. Sources	1 (No subtending MGs)	1 (No subtending MGs)
2365	TN750 C Circuit Packs							
2370	Channels per Circuit Pack (playback ports)	16	NA	NA	NA	NA	NA	NA
2375	Maximum Announcements per Board	256*	NA	NA	NA	NA	NA	NA
2380	Board Contents Saved ⁸⁸	1	NA	NA	NA	NA	NA	NA
2385	Recording Time (Min:Sec)							
2390	16 KB Recording	8:32	NA	NA	NA	NA	NA	NA
2395	32KB Recording	4:16	NA	NA	NA	NA	NA	NA
2400	64KB Recording	2:8	NA	NA	NA	NA	NA	NA
2405	TN2501AP (VAL) Circuit Packs on G650 Port Network Gateways							
2410	Channels per Circuit Pack (Playback Ports)	31	31	31	31	NA	NA	NA
2415	Maximum Announcements per Circuit Pack	256*	256*	256*	256*	NA	NA	NA
2420	Circuit Pack Content Saved	All active Circuit Packs	All active Circuit Packs	All active Circuit Packs	All active Circuit Packs	NA	NA	NA
2425	Recording Time per Circuit Pack (in Minutes)⁹⁰							
2430	Low-end Option (Max. 1 Circuit Pack)	10	10	10	10	NA	NA	NA
2435	High-end Option (with up to 5 Circuit Packs for CSI; 10 for S8700/S8710)	60	60	60	60	NA	NA	NA
2440	G600 Embedded Integrated SSP (Scalable Speech Processor) Announcements							
2445	SSP Circuit Pack	NA	1 per G600	NA	NA	NA	NA	NA
2450	Channels per SSP Integ. Annc. Circuit Pack	NA	8	NA	NA	NA	NA	NA
2455	Maximum Announcements per Circuit Pack	NA	128	NA	NA	NA	NA	NA
2460	Circuit Pack Contents Saved	NA	All	NA	NA	NA	NA	NA
2465	Recording Time (Min)							
2470	16 KB recording	NA	240	NA	NA	NA	NA	NA
2475	32KB recording	NA	120	NA	NA	NA	NA	NA
2480	64KB recording	NA	60	NA	NA	NA	NA	NA
2485	Embedded Media Gateway Integrated Virtual VAL (Voice Annc. Over LAN) vVAL Announcement Sources							
2490	Channels per Source (playback ports) - depends on the Media Gateway (lower number for G250/G350, higher number for G700)	NA	6 or 15	6 or 15	6 or 15	15	6	6
2495	Maximum Announcements per Source	NA	256	256	256	256	256	256

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			S8700, S8710 IP Connect	S8700, S8710 Multi Connect	S8500, S8500B See Note-2 and 71.3	S8300 /G700	S8300 /G350 See Note-5	S8300 /G250 See Note-10
ITEM		w/ CMC1	w/H.248 Media Gateways, H.323 Remote Office Gateways (including G150)	w/H.248 Media Gateways, H.323 Remote Office Media Gateways (including G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways, H.323 Remote Office Gateways (incl. G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways and H.323 Remote Office Gateways	No subtending H.248 Media Gateways	No subtending H.248 Media Gateways
2500	Source Contents Saved (VAL FTP download)	NA	All active Circuit Packs	All active Circuit Packs	All active Circuit Packs	All active Circuit Packs	All active Circuit Packs	All active Circuit Packs
2505	Recording Time per Source in Minutes - depends on the Media Gateway (lower number for G250/G350, higher number for G700)	NA	10 or 20	10 or 20	10 or 20	20	10	10
2510	LOCALLY SOURCED MUSIC and ANNOUNCEMENTS (LSMA) - Allows "announcements" & "audio groups" to also be used as Music on Hold sources.							
2515	Audio Groups (for announcements/music) ¹²¹	NA	50	50	50	50	1	1
2520	Sources per Audio Group (VAL and/or vVAL)	NA	250	250	250	50	1	1
2525	Announcement extension-source combinations ²²	NA	3000	3000	3000	3000	256	256
2530	MOH Groups (for assignment as the system music source or Tenant Partition Multiple Music Source)	NA	10	10	10	10	1	1
2535	Analog/Aux Trunk Sources (Ports) per MOH Group	NA	250	250	250	250	NA	NA
2540	Unique Analog/Aux Trunk MOH Ports per System (each referenced only once)	NA	250	250	250	250	NA	NA
2545	STATIONS (See Voice Terminals; also see Ports for maximum ports incl. Stations and trunks)							
2550	SYSTEM ADMINISTRATION							
2555	No. of Login IDs: Customer + Service	11 + 5	50 + 5	50 + 5	50 + 5	11 + 5	11 + 5	11 + 5
2560	Admin History Log File Entries	500	1,800	1,800	1,800	500	500	500
2565	Simultaneous Admin Commands ²	1	10	10	10	1	1	1
2570	Simultaneous Maintenance Commands ²	1	5	5	5	1	1	1
2575	Simultaneous System Mgmt. Sessions ²	5	15	15	15	5	5	5
2580	Number of Scheduled Reports	50	50	50	50	50	50	50
2585	Access Security Gateway Session History Log Entries	100	250	250	250	100	100	100
2590	SPEECH SYNTHESIS CIRCUIT PACKS							
2595	No. of Speech Synthesis Circuit Packs	6	40	40	40	NA	NA	NA
2600	Channels per Speech Circuit Pack	4	4	4	4	NA	NA	NA
2605	TERMINATING EXTENSION GROUPS (TEG)							
2610	TEGs	32	32	32	32	32	32	32
2615	Users That May Share a TEG	4	4	4	4	4	4	4
2620	TIME SLOTS^{36,37}							
2625	Simultaneous Ckt Switched Calls ³⁶	242	15,424	15,424	15,424	236	236	236
2630	Total Time Slots	512	32,768	32,768	32,768	512 ^{71.1}	512 ^{71.4}	512 ^{71.4}
2635	Time Slots for Voice & Data ³⁸	484	30,976	30,976	30,976	472 ^{71.1}	472 ^{71.4}	472 ^{71.4}
2640	Time Slots per Port Network	512	512	512	512	512/MG	512	512
2645	TONE CLASSIFIERS							
2650	Tone Receivers (General) ³⁹	200	1200	1200	1,200	15 / G700	15 / G350	15 / G350
2655	TTR Queue Size	4	4	4 (SCC/MCC)	4	NA	NA	NA
2660	Prompting TTR Queue Size	80	80	80 (SCC/MCC)	80	NA	NA	NA
2665	TRUNKS For Max IP trunks, SIP trunks, Signaling Groups etc. see IP Solutions.							
2670	DS1 Circuit Packs including MM710s on S8300s (PRI/Station only, Total (PRI+Line-side DS1)	30	400 566 ⁹⁴	400 566 ⁹⁴	400 566 ⁹⁴	Max 15 MM710s as E1s or 20 MM710 as T1s ^{94.1}	5 MM710s ^{94.1}	N/A G250 does not support BRI MM
2675	DS1 with Echo Cancellers (offer limit)	30*	400	400	50	30	NA	NA
2680	Queue Slots for Trunks	198	4,000	4,000	4,000	198	198	198
2685	Max No. of Trunks of all types in System	400	8000 ^{71.2,102}	8000 ^{71.2,102}	800 ^{71.2,102}	450 ^{71.1,102}	450 ^{71.4,102}	450 ^{71.4,102}
2690	Total PRI Interfaces⁴⁰	8	400	400	400	NA	NA	NA
2695	Qty Emulated Circuits per ATM CES Interface	8	8	8	8	NA	NA	NA
2700	Qty of PRI D-channels per ATM CES Interface	8	8	8	8	NA	NA	NA
2705	Max. Qty. ATM Interfaces used for CES per PN	2	2	2	2	NA	NA	NA
2710	Max. Qty. ATM Interfaces used for CES per System	2	88	88	88	NA	NA	NA
2715	Max. Qty. ATM Interfaces (CES+PNC) per system	2	88 ¹⁰³	176	88 ¹⁰³	NA	NA	NA

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			S8700, S8710 IP Connect	S8700, S8710 Multi Connect	S8500, S8500B See Note-2 and 71.3	S8300 /G700	S8300 /G350 See Note-5	S8300 /G250 See Note-10
ITEM	w/ CMC1	w/H.248 Media Gateways, H.323 Remote Office Gateways (including G150)	w/H.248 Media Gateways, H.323 Remote Office Media Gateways (including G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways, H.323 Remote Office Gateways (incl. G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways and H.323 Remote Office Gateways	No subtending H.248 Media Gateways	No subtending H.248 Media Gateways	
2720	BRI TRUNKS ⁴²							
2725	BRI Trunk Circuit Packs	8	250	250	250	250 ^{42.2}	250 ^{42.2}	250 ^{42.2}
2730	BRI Trunks (Max B-Channels * Max Circuit Packs and/or MMs) ^{42.1}	160	6000 ^{42.3}	6000 ^{42.3}	6000 ^{42.3}	4000 ^{71.1}	4000 ^{71.4}	4000 ^{71.4, 42.3}
2735	SBS Trunks (See IP Solutions)							
2740	ISDN Temporary Signaling Connections							
2745	TSCs in System	656	8,256	8256	8,256	656	656	656
2750	Call Associated TSCs	400	8,000	8000	8,000	400 ^{71.1}	400 ^{71.4}	400 ^{71.4}
2755	Non Call Associated TSCs	256	256	256	256	256	256	256
2760	Administered / Fixed TSCs	128	128	128	128	128	128	128
2765	Ringback Queue Slots	198	1,332	1332	1,332	198	198	198
2770	Trunk Groups							
2775	Trunk Group Hourly Measurements	25	75	75	75	25	25	25
2780	Trunk Groups in the System	99	2,000	2000	2,000	99	99	99
2785	PRI Call-By-Call Trunk Groups in the System (part of the total trunk groups in the system)	10	200	200	200	10	10	10
2790	Trunk Members in a Trunk Group	99	255	255	255	99	99	99
2795	ISDN / IP / SIP Trunks							
2800	Incoming Call Handling Treatment (ICHT) per Trunk Group	18	54	54	54	18	18	18
2805	Incoming Call Handling Treatment (per System)	288	9999	9999	9999	288	288	288
2810	User Defined Services	24	60	60	60	24	24	24
2815	Usage Allocation Entries (per Plan)	15	15	15	15	15	15	15
2820	Number of entries in the Public Unknown Numbering form (for outgoing caller number translation)	240	9999	9999	9999	240	240	240
2825	VOICE TERMINALS⁴³ (NOTE: The CSI station max is 900). For Blade Server, Station Max is 500.							
2830	Associated Data Modules (e.g. DTDMs)	800	NA	NA	NA	NA	NA	NA
2835	Stations (Overall Maximum Number of Stations of all types) ⁴⁶	900	36,000 ^{71.2, 101}	36,000 ^{71.2, 101}	2,400 ^{71.3, 101}	450 ^{71.1}	40 ^{71.4}	15 ^{71.4}
2840	BRI (Point-to-Point and Multipoint) Stations (part of the Overall Max) ⁴⁴							
2845	Point-to-Point	900	7,000	7,000	7,000	1000*	1000*	1000*
2850	Multipoint (Passive Bus)	900	7,000	7,000	7,000	1000*	1000*	1000*
2855	Digital Stations (part of the Overall Max) ⁴⁵	900	36,000 ^{71.2, 101}	36,000 ^{71.2, 101}	36,000 ^{71.3, 101}	2400 ^{71.1}	2400 ^{71.4}	2400 ^{71.4}
2860	Display Stations (part of the Overall Max)	900	36,000 ^{71.2, 101}	36,000 ^{71.2, 101}	36,000 ^{71.3, 101}	2400 ^{71.1}	2400 ^{71.4}	2400 ^{71.4}
2865	IP Stations (part of the Overall Sta. Max) ⁴⁵	900	12,000	12,000	2,400	450 ^{71.1}	450 ^{71.4}	450 ^{71.4}
2870	Concurrently registered IP Stations (offer limit)	900	12,000	12,000	2,400	450	40	10
2875	Concurrently registered Unauthenticated IP Stations (offer limit)	900	12,000	12,000	2,400	450	40	10
2880	Station Button Capacity (K Units) ⁴⁷	662.4	17,496	17,496	17,496	662.4	662.4	662.4
2885	Number Of Administrable Physical Buttons	54,400	1,440,000	1,440,000	1,440,000	54,400	54,400	54,400
2890	Station Button Feature Capacity ⁴⁸	15,900	15,900	15,900	15,900	15,900	15,900	15,900
2895	VUSTATS							
2900	Measured Agents or Login Ids	400	3,000	3,000	3,000	400 ^{71.1}	400 ^{71.4}	400 ^{71.4}
2905	Measured Splits/Skills	99	600	600	600	99 ^{71.4}	99 ^{71.4}	99 ^{71.4}
2910	Measured Trunk Groups	32	32	32	32	32 ^{71.4}	32 ^{71.4}	32 ^{71.4}
2915	Measured VDNs	99	512	512	512	99 ^{71.4}	99 ^{71.4}	99 ^{71.4}
2920	Max. VuStat Buttons ¹¹⁸	100	1000	1000	1000	100	100	100
2925	System Max. Simultaneous Updating Displays	100	500	500	500	100	100	100
2930	Reporting Periods							
2935	Intervals	25	25	25	25	25	25	25
2940	Days	1	1	1	1	1	1	1
2945	CMS Switch Links⁸⁷							
2950	R3V9/R3V11/R12/R13 CMS	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2
2955	CMS Capacities							

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			S8700, S8710 IP Connect	S8700, S8710 Multi Connect	S8500, S8500B See Note-2 and 71.3	S8300 /G700	S8300 /G350 See Note-5	S8300 /G250 See Note-10
ITEM		w/ CMC1	w/H.248 Media Gateways, H.323 Remote Office Gateways (including G150)	w/H.248 Media Gateways, H.323 Remote Office Media Gateways (including G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways, H.323 Remote Office Gateways (incl. G150, MCC1, SCC1, CMC1)	w/H.248 Media Gateways and H.323 Remote Office Gateways	No subtending H.248 Media Gateways	No subtending H.248 Media Gateways
2960	CMS Capacity Item		R13 CMS Total Capacity					
2965	ACDs (multi-ACD configuration)		8					
2970	ACD Admin Log Records		30,000					
2975	Agent Traces Active		400					
2980	Agent Trace Records		500,000					
2985	Call Records (internal)		5,000					
2990	CWC ⁸⁵		1,999					
2995	Max. CWCs collected in the call record		6					
3000	Exception Records		2,000					
3005	External Call History Busy Hour Calls (limit for an hour)		99,000					
3010	Logged-in Agent-Split/Skill Pairs ⁸⁴		100,000					
3015	Splits/Skills per ACD		2,000					
3020	Skills over 8 ACDs		16,000					
3025	Login/Logout Records		999,999					
3030	Measured + Unmeasured Trunks ^{84.1}		40,000					
3035	Measured Trunk Groups		8,000					
3040	Locations / Location IDs		250					
3045	Simultaneous active client sessions ⁸⁶		400					

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The Release 3.0 System Capacities Table contains Communication Manager software-defined maximums as well as the License file-defined offer limits. The following footnotes provide explanations for some of the contents in the Capacities Table, and for some of the major offer limits.

For information regarding End-of-Sale of platforms such as G3R and G3SI, see the NOTES in the beginning of the Capacities Table.

Special Applications based Capacity differences are highlighted in **green**.

Footnote **Detailed Description**
Number:

- * *Software capacity limit cannot be achieved due to Hardware or Processor capacity limits for this platform.*
- Note:** *IP-Connect in these footnotes refers to an S8700, S8710 or the S8500 Media Server with G600/G700/G350 MGs;
Multi-Connect refers to a configuration consisting of S8700, S8710 or the S8500 Media Server with G700/G350/G650/MCC1/SCC1 Media Gateways.*
- Note:**
 - *The S8100 is not supported with CM 2.1 and beyond.*
 - *The DEFINITY Server R is discontinued since December 8, 2003. The DEFINITY Server R cannot be upgraded to Communication Manager 2.0 and beyond, but upgrades to Communication Manager 1.3.x will be sold until November 2004. Please consult Upgrades and Additions for Avaya DEFINITY Server R, 555-233-115, for information about upgrading to Communication Manager 1.3.*
 - *Release 3.0 will NOT support the G3SI platform.*
 - *Category B Offer is NOT supported in Release 3.*
- 1 There is no limit on the maximum number of auto dial buttons (other than the system limit on button capacity). See Station Button Capacity for system button limitations.
- 2 System Management sessions are used for system administration and maintenance purposes, and some of the platforms allow multiple simultaneous sessions. The S8700, S8710 offers, for example, can support 15 simultaneous sessions. But the system allows maximum 10 simultaneous admin sessions for add/change, etc., as long as they are not accessing the same data - i.e., 2 admin users cannot change the same station object simultaneously. Commands such as test, busyout, release, status are maintenance commands, and up to 5 such simultaneous commands can be issued in addition to the admin commands, as long as they are not accessing the same data, and the command is not designated as a 'single user' command.
- 3 (Footnote removed)
- 4 (Footnote Removed).
- 4.1 The TN799 (C-LAN) circuit pack has one Ethernet connection and 16 PPP connections. The sum of links via PPP and Ethernet ports has to be less than the maximum number of communication-interface links per switch. IP Routes (with C-LAN) refers to the size of the IP routing table accessed by the "change ip-route" command.
- 4.2 Mode code integration with Intuity AUDIX is marketed only on G3 CSI models.
- 4.3 Although the system supports 10 QSIG hunt groups, the number of messaging adjuncts depends on the PRI signaling groups on the system.

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- 4.4 This shows the number of agent-split combinations supported. Agent-split pairs is the total combination used by ACD agents, Auto-Available Splits (AAS) ports (e.g., VRUs), non-ACD hunt groups (groups with or without queues, Message Center Service, INTUITY/AUDIX, Remote AUDIX, etc.). Each non-ACD hunt group member, AAS split member, and split assigned to an ACD agent is counted when administered.
- 4.5 The number of CMS adjuncts using CLAN for connectivity to the switch counts toward the maximum capacity of TN799 circuit packs (CLAN).
- 4.6 These links can be administered over the CLAN TN799 circuit pack or traditional Data Modules.
- 5 An agent can be assigned more splits during administration but only this number can be simultaneously logged into.
- 6 The maximum Members per Group limits limit the number of agents that can log into the same split/skill. Maximum agent limits are reduced by the number of non-ACD members and AAS ports administered and, with non-EAS, the additional splits assigned to agents that are not logged into.
- 7 Queue slots are shared across non-ACD, ACD (splits/skills) and AAS hunt groups. NOTE: The capacity limits for System and Per Group Queue Slots are not applicable with any platforms that run Rel 2.1 or later CM Software due to the Release 2.1 Dynamic Hunt Group Queue Slot Allocation feature. Hunt group queue slots are now allocated on an as needed basis allowing all calls that are possible to be in queue. The common pool of queue slots is 1,000 for the CSI/S8300 server platforms and 12,000 for the S8500/S8700/ S8710 platforms.
- 8 Plus up to 7 Inter-eXchange Carrier (IXC) digits.
- 9 This is the number of available 12-character inserted-digit-strings available for AAR/ARS preferences.
- 10 The number of attendant consoles listed is per software limitations. One console is supported per CMC without supplemental power.
- 10.1 The number of IP Soft attendant consoles: **On the S8500, the Offer limit is 20.** This is based on license file truncation limits.
- 10.2 Crisis Alert Stations: Crisis Alert buttons can be administered on attendant consoles, and 10 additional digital stations.
In Release 3.0, on the 8700/8710 platforms ONLY, a SPECIAL GREEN FEATURE increases this capacity to 250 Crisis Alert Stations.
- 11 The number of release link trunk groups counts towards the total number of trunk groups in the system.
- 12 "Maximum number of queue slots" is referred to as "emergency access queue length" in G3 SI.
- 12.1 The Monitor Split command shows the status for only the first 100 agents logged into the split, regardless of how many additional agents log into the split.
- 12.2 BCMS monitoring, being a maintenance command, is limited by the active maintenance commands limit, reduced by 2 in G3r and by 3 in the S8700, S8710 platform (since 2 active command slots are reserved for the INADS and SAT logins respectively).
- 13 **EPNs:** Only EPNs in the G3SI/S8500 (direct connect migration), G3R and S8700, S8710 Multi-Connect systems can be DS1-remoted EPNs.
The numbers reflect the number of cabinets, not the number of EPNs.
The entries in the S8500 and S8700, S8710 (MC and IPC) columns reflect the PNs (and in brackets, the number of stacked cabinets per PN).
In a Mixed PNC environment, scalability increases for Center Stage Switch/Direct Connect by expanding the number of total port networks to 64.

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- The CSS itself is still limited to a maximum of 44 PNs, But another 20 (or more depending on how many PNs are part of the CSS) could be IP Bearer connected, for a maximum of 64.
- The Direct Connect is still limited to 3 PNs; but it can now have 61-63 IP Connected PNs associated with it.

14 NOTE: The CSI and SI configurations are represented in the same column; however EPNs are not applicable to the CSI configurations (including the ProLogix). They are applicable to the SI configurations only.

15 With the Extended 64 bridged appearances (principal + 63) are supported on all platforms when ASAI is not used. The capacity is 16 with ASAI (Category A only).

16 The number of call appearances is the sum of primary and bridged appearances; at most 10 can be primary. A maximum of 54 administrable buttons can be supported for the 7434 terminal without display.

The 8434 terminal with display and expansion module can support up to 52 call appearances.

17 This maximum varies depending on the number of parties already on the call (on the calling and called parties' sides). The absolute maximum number of parties on a call (7 parties) is the guiding principle.

18 For administering announcements beyond 256: First the Call Center Release must be set to R8.1 or later Then to access greater than 256 one must specifically refer to an announcement number greater than 256. For example, "change announcement 300". The administrator can then have access to another 16 pages and so on.

19 Shared extensions must be shared among all attendant groups in the system including Tenant Partition scenarios.

20 With SA8661: 2050 AWU requests in 15-min. interval.

20.1 VDNs are counted as part of the miscellaneous extensions capacity. The total of VDNs, hunt groups, announcements, LDNs, TEGs, PCOL groups, access endpoints, administered TSCs, and Code Calling IDs extensions and common shared extensions cannot exceed 26,258 for S8710/S8500 Server Systems. In addition, the total of stations (station extensions including ACD agent physical set extensions, Logical Agent IDs and AWOH) assigned and the VDNs assigned cannot exceed 36,051 for S8710/S8500 Server Systems (VDNs share message server space). Also, the total of all extensions assigned for any purpose cannot exceed 49,828 for S8710/S8500 Server Systems. See the Dial Plan section for details.

20.5 BSR (Best Service Routing) application numbers is limited to 511 and location numbers is limited to 255.

21 Simultaneous 3-way Conference Call = ROUND_DOWN (484 / 3) times number Port Networks.
NOTE: These are for non-IP endpoints. If IP endpoints are involved, a VoIP resource is used up. The available number of VOIP resources limits the number of such calls with IP endpoints.

22 Simultaneous 6-way Conference Call = ROUND_DOWN (484 / 6) times number Port Networks.
NOTE: These are for non-IP endpoints. If IP endpoints are involved, a VoIP resource is used up. The available number of VOIP resources limits the number of such calls with IP endpoints.

23 (Footnote removed)

24 Total extensions is the count of all extension assignments for any use. Included in this count are "station extensions," "miscellaneous extensions," data extension groups, PRI endpoint groups and trunk group extensions. On a large system:

$$\begin{array}{rcccccccc} \text{MAX (MAX_STATION, MAX_VDN)} & + & \text{TEGs} & + & \text{PHANTOM_ACA} & + & \text{DATA_ENDPOINTS} & + & \text{FIXED_TSCs} & + & \text{HNT_GRP} & = \\ 36,000 & & + 32 & + & 150 & & + 7500 & & + 128 & & + 2000 & = 45,810 \end{array}$$

A single system will not be able to support the maximum stations and maximum VDNs simultaneously. By not adjusting the number downward we have gained 2,736 extensions, which allowed for the growth in announcements.

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The value of total # of extensions is approximately 80% of “Station Extension” (36,000) + “Misc Extensions,” (26,508), and thus we obtain the recommended number 49,733 (expanded to 49,828). This holds true for R12 and beyond (i.e., Rel. 2.0 and beyond) as well. (CDB)

24.1 “Station extensions” consist of attendant extensions station set assignments (including ACD agent physical sets), AWOH (administration without hardware) and administered Logical Agent IDs extensions.

25 “Miscellaneous extensions” consist of VDNs, hunt groups, announcements, LDNs, PCOL groups, common shared extensions, access endpoints, administered TSCs, Code Calling IDs, TEGs, Paging zones, and Phantom ACAs.

Note that Access Endpoints are actually tied to the number of trunks, not the number of trunk groups.

26 (Footnote removed)

27 Integrated Directory Entries = Stations + Attendant Consoles.

28 Number of Names = number of stations + attendant consoles + trunk groups + digital data endpoints + miscellaneous extensions.

28.1 Total of the administered Login ID skill-pair members (for agents and AAS ports).

28.2 (Footnote removed)

28.3 Number of agent-skill combinations supported. Agent-skill pairs is the total combination used by ACD agents, Auto-Available Skills (AAS) ports (e.g., VRUs), non-ACD hunt groups (groups with or without queues, Message Center Service, INTUITY/AUDIX, Remote AUDIX, etc.). Each non-ACD hunt group member and AAS skill member is counted when administered. Each skill assigned to an EAS agent is counted as an ACD member when the EAS agent logs in, not when administered.

28.4 This limit may not be reachable depending on how many skills are assigned per Login ID due to the ACD Members Administered (Login ID-skill pair) limits. The following shows the Login ID limits for different number of skills per Login ID:

Maximum Login IDs With:	CSI/SI (with R9/R10/1.x/2.0) or S8100/S8300 (with 1.x/2.0)	R (with R9/R10/1.x/2.0) or S8700/S8710 (with 1.1/1.2)	S8500, S8700, S8710 (1.3 or later)*
1 to 4 Skills Each	1,500	10,000	20,000
9 Skills Each	666	7,222	20,000
10 Skills Each	600	6,500	18,000
20 Skills Each	300	3,250	9,000
60 Skills Each	NA	NA	3,000

* The Login ID-Skill pair limit for S8500/S8700/S8710 was increased to 180,000 with Avaya Communication Manager Release 1.3

28.5 Hunt group members include non-ACD (hunting, Message Center Service, Intuity/AUDIX, Remote AUDIX, etc.) and ACD uses (splits or skills including Auto-Available Splits/Skills). Each ACD agent-split/skill assignment counts as a hunt group member.

29 Last Number Dialed Entries = Stations + Digital Data Endpoints + Attendant Consoles

31 Intuity supports 20 DCS nodes.

32 These numbers are node number addresses.

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- 33 On Larger systems, Coverage answer Groups are 1/4th of Station User Maximum. So it is 9000 (36000/4) on S8700 or 8710.
- 34 Only port slots are included in this count. For example, there are 100 slots per MCC EPN cabinet with 99 port slots and one slot dedicated for the Tone Clock board. There may be other service circuits required which would further reduce the number of port slots available. In G3r and G3SI MCC port carriers, the service slots may be equipped with service boards that do not require tip and ring connections.
- 35 (Footnote removed)
- 36 242 Simultaneous Circuit Switched Calls per port network. G3 R has a total of 7,744 simultaneous voice/data/video calls, which is limited by the number of call records supported. Multimedia calls tend to be multi-party calls. See Communication Manager Hardware and Traffic Guidelines for further details.
- 37 The DEFINITY CSI Server supports PRI D-Channels over the TDM bus. Each D-Channel for PRI uses one timeslot pair. For each D-Channel used, subtract two timeslots from the total available for voice and data conversations.
- 38 484 time slots for voice and data per port network.
- 39 The switch uses the TN744 Call Classifier/Detector for basic TTR usage as well as call prompting/call classification/MFC. In addition, the TN2182 Tone/Clock/Detector is used for multiple tone detection functions. The number of TN748, TN420, or TN744 boards is limited only by the number of available slots. The number of TN2182 boards is limited only as described in Communication Manager Hardware and Traffic Configuration Guidelines. There is a single limit on the total number of tone receiver (classifier) ports for the system.
1. TN748/TN420 have 4 ports for TTR use
 2. TN748/TN420 have 2 ports for GPTD use
 3. TN744 has 8 ports for call prompting/call classification/MFC/TTR/GPTD use
 4. TN2182 has 8 ports for call prompting/call classification/MFC/TTR/GPTD use
 5. On the G700s: the maximum Tone Receivers per G700 was increased from 12 to 15 in Rel. 1.3. It should be noted that in spite of this enhancement, the TTR capacity of the G700 affects the Busy Hour Call Capacity – especially the Call Center call mix. Also in an IP connected configuration, TTRs can only be used to serve calls local to the Gateway – they can not be shared across MGs/PNGs.
 6. The IPSIs have 8 TTR resources embedded within them.
- 40 Counts towards the total number of DS1 circuit packs.
- 41 Total number of Measured Trunks supported by the DEFINITY CSI Server system is 400. However the limit as per the DEFINITY CSI Offer Document is 390.
- 42 The TN2185 BRI Trunk circuit pack and the MM720 provide 8 ports. The TN556B and TN2198 provide 12 ports. Each port (2B + D) provides 2 BRI trunks.
- 42.1 BRI trunks supported by a DEFINITY CSI Server system: A CSI is limited to 512 Data Link Connection Identifiers (DLCI), of which only 320 may be used for BRI trunks. Each BRI port takes 4 DLCIs, so that allows for 80 ports. Since each “port” is really 2B+D, there are two BRI trunks per port. So 80 ports equates to 160 BRI trunks. However, since the system-wide trunk maximum is 100, the maximum BRI trunks supported for CSI is also 100. For the S8300, it is 400 since the system maximums for S8300 follow the SI maximums.
- 42.2 More information regarding BRI trunks (including TN2185, TN556 (suffix C and later), MM722 and MM720 that are administered using the "add bri trunk" command).
In Rel 2.2 and beyond all Linux platforms of CM software (S8700/S8710, S8500/S8500B, S8300) support **max 250 BRI trunk boards**. This includes TN2185, TN556 (suffix C and later), MM722 and MM720 that

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are administered using the "add bri trunk" command. Note that the 720 can be either NT or TE mode, but as long as it is administered as a trunk board it counts towards that maximum.

For S8300/G700:

1. Although SW allows 250 max BRI trunk boards, the physical limit is different, since it supports **max 50 Media Gateways** (could be a combination of G700, G350 and G250s as MGs), and the max BRI boards is based on the types of MG and how many Media Modules (MM) they can support.
 - G700 MGs support max 4 MMs each. IF only G700 MGs are used: S8300/G700 can have max 199 BRI trunk boards - i.e., (50 MGs * 4 per MG) -1 (since the G700 with the processor module in it can have max 3 other media modules). This max of 199 is based on the assumption there are no LSPs. If there are G700s as LSPs they will also house max 3 other MMs. So the system can be customized in many ways
 - G350 MGs support max 5 MMs each;
 - G250 BRI has a built-in 2-port BRI, (like the MM722);
2. **However the S8300 supports maximum 450 trunks.** So the most likely way you would get the full 250 BRI trunk boards with max 250 MGs is: if many of them are MM722s with only a few trunks per board. With a MM720, if we assume you use all 16 ports on each MM, you'd only get up to 28 or 29 MMs before you'd hit the system-wide 450 trunk limit.

For other S8300 platforms (G350, G250):

They do not support subtending MGs and so the Hardware limit is much less than the software limits.

- 42.3 The maximum of 6000 is based on: TN556 BRI Board which supports 12 ports and each port supports 2 B-Channels per port (250 * 24).
However if BRI trunks are used to connect to the PSTN, TN2185 or MM720 is more commonly used, which support 8 ports (16 B-Channel), giving a total of 4000 (250 * 16).
If MM722 (2-port BRI board) is used, the capacity is further reduced.

- 43 NOTE: The Station user maximum for CSI configuration is 900 (not 2400). All other maximums are that of the SI configuration.

The following items reduce the total number of available "Stations" on a switch:

1. Analog Music-On-Hold
2. Attendants
3. Modem Pool Conversion Resources
4. TAAS Port
5. Stations (Digital, display, BRI, etc.)
6. Analog Announcements
7. Analog External Alarm Port
8. EAS Agent Login Ids
9. ACD Agents

These items constitute all the valid objects within software that limit the number of available stations on a switch. Attendant Consoles and Stations are not the only objects that reduce the total number of available stations on a switch. See the Dial Plan section of the Capacities Table for more details.

- 44 All BRI stations can be display stations.
Line side BRI MM support on MM720 is a new feature of Release 3.0. This allows BRI stations to be administered on the S8300 systems which support only Media Modules and not the TN cards.

MM720 supports 8 ports, and multipoint configuration with 2 B-channels per port. Thus the MM720 can support 16 BRI stations. NOTE that the multipoint configuration requires an external
So the maximum number of BRI stations supported on S8300 systems depends on the Media Gateways, and the number of MM720s that they can support.

- 45 Capacities depend upon the release/version of IP phones.

- 45.1 The "Logged-In IP Softphone Agents" field on the customer options form, which counts for display purposes the ACD agents (either non-EAS or EAS) logging in with IP softphones, is set to the lesser of the two by the RFA/License File: "Logged-in ACD Agents" field, or the "Maximum Concurrently Registered IP Stations"

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field.

- 46 Including extensions administered without associated hardware. See the Dial Plan section of the Capacities Table for more details.
- 47 "Station Button Capacity (units)" replaces "Maximum Button Modules" (from pre-R1V5.1).
- 48 The following button features share a common resource in memory:
1. Call Forwarding All
 2. Call Forward Busy Don't Answer
 3. Send Extension Calls (SAC with extension)
 4. Station Busy Indicators
 5. Trunk Group Status
 6. Hunt Group Status
 7. Loudspeaker Paging Zone Status
 8. PCOL Group Status
 9. Data Module
 10. Terminating Extension Group Status
 11. Announcement Status
 12. Attendant Group Status/DXS
 13. Remote Trunk Group Select
- 49 **As of Oct. 2002, the DWBS system has been discontinued.** For G3R, TN789 Radio Controller Circuit Packs cannot be used in DS-1 remote EPNs.
- 50 Due to downlink buffer overflow problem, the Group Page with Speakerphone feature does not work with TN754A or TN754B. Minimum vintage of TN754C is required. Earlier vintage boards may cause lost messages, pages not terminating, phantom ringing, invalid displays etc.
- 51 **As of Oct. 2002, the DWBS system has been discontinued.** The in-building system that replaces the DWBS is provided in collaboration with SpectraLink®. There are 2 offers: the 900 MHz system, and the 2.4GHz system called the IP Wireless Telephone System. The 900 MHz phone (3410) is administered on the MV as 8410; the 2.4GHz phone (3606) is administered as 4606. As a result the SpectraLink® wireless user maximum is based on the station user maximum for each of the platforms.
- 52 (Footnote removed)
- 53 Stores CDR records on the local hard disk.
- 54 **On S8100 or D1 platforms only:** The system uses two files to store and control CDR records. One file is named cdr.out and the other cas.in. Both files are in the directory d:\AvayaData\CDR. Every 10 minutes, the system checks for the presence of the file cas.in. If the file cas.in is NOT present, the system will rename the cdr.out file to be cas.in and will create a new cdr.out file. If the cdr.out file reaches a size of 100,000 bytes or contains 1000 records, the system will stop writing records and begin buffering records internally. Once 500 records have been buffered internally, new records are discarded. Data is lost. The call accounting system should delete the file cas.in when it is ready to accept a new set of cdr records. Within 10 minutes, the system will rename the cdr.out file to cas.in as explained above (assuming the cdr.out file is not empty). As soon as the cas.in file appears, the call accounting system may process the records and then delete the cas.in file again. The call accounting system MUST process the records at a rate to match the expected switch call rate in order to not lose data. **On other platforms:** CDR must be collected in real time using external CDR collection devices such as the terminal server, or an application that supports RSP (Reliable Session Protocol).
- 54.1 S8700 and S8710 can buffer at most 17,326 records. The second number, 1,900 is a watermark number. Assume both primary and secondary CDR devices are up, then if the buffered records (there is one buffer

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only) reaches 1900 or higher, the secondary CDR will be dropped down for 2 minutes. But the primary CDR will continue to be up and sending records.

This indicates that secondary CDR device should not be used for sending records, but for debug and etc. In most case, only the primary CDR device is used.

- 55 (Footnote removed)
- 56 (Footnote removed)
- 56.1 Saved on TN750C only.
- 57 (Footnote removed)
- 58 Reports are not produced via the system, but through ASA. There is no limit to this activity in ASA.
- 59 The total number of stations (including ACD agent physical sets, Logical Agent IDs and AWOH) assigned and the VDNs assigned cannot exceed 36,000 for S8700, S8710 and S8500 (VDNs share message server space). Dial plan limits also apply.
- 60 The signaling connections are shared by ISDN, ATM trunk signaling, and IP signaling groups. This number is the maximum number of DS1s and the number of support Remote Offices.
- 61 (Footnote removed)
- 62 (Footnote removed)
- 63 (Footnote removed)
- 64 Maximum stations for S8100 Media Server with CMC1 Media Gateway, or G650 Media Gateway:
→ 240 stations with embedded messaging enabled; (when the 168 H.323 trunks are included, the total for H.323 endpoints is 408)
→ 450 stations with embedded messaging disabled. (when the 168 H.323 trunks are included, the total for H.323 endpoints is 618).
- 65 (Unused)
- 66 Logged-in Agent capacity is limited by the offer via the Logged-In Agent customer option. See the S8100 with CMC1 or S8100 with G600 Offer Definition for details.
- 67 For S8500:
→ For Migrations from SI/R Simplex direct connect: it is a max of 3.
→ For new shipments: Not available since new shipments are all IP connect media gateways.
- 68 Must be increased to support the 10,000 personal lists, and 100 group lists, 1 system list, 2 enhanced lists (implementation as 2 lists rather than 1).
- 69 This amount would allow users to have the 20,000 Enhanced AD entries (implemented as 2 lists), 10,000 personal lists with 20 entries each rather than 100, a System list of 100, and 100 Group lists with 100 entries each. This would max out at 230,100 entries that could be made the max instead of 250,000.
- 70 The 10,000 additional Enhanced AD Entries on a second list (rather than expanding the 1 Enhanced AD list) allows 4-digit dialing via FAC to remain as before. To expand the 1 list would have required users to enter 5 digits when dialing via FAC.

NOTES Footnotes 71 and 71.1 are related to the S8300w/G700 offer; and 71.2 is related to the S8700, S8710 re. Foot platform; 71.3 is related to the S8500 platform; 71.4 contains information re. the S8300/G350 offer. On these Notes 71, platforms:

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- 71.1, 71.2, 71.3 and 71.4
- Some of the maximums (such as maximum stations, trunks, EC500 users, IP stations, IP trunks, LSPs etc.) set by the ACM software are different from the offer-based limits in the various releases. Few of these offer-based limits are mentioned here.
 - **Features** such as Call Forwarding are turned ON/OFF by the License File but not the actual capacity limits. However on some of the platforms the ACM software-based limits may not apply to these features since their maximums are scaled by the associated capacities that they are coupled with, set by either the License File, or based on the hardware/platform limitations (boot-time configurations).
 - Similar derived capacity limitations applies to features such as call pickup, bridging, etc., which may not be controlled by the license file either for turning the feature ON or OFF, or for feature-specific capacities.
 - **Call Capacities** (such as simultaneous 2-way, 3-way or 6-way calls) in the table are for non-IP endpoints. If IP endpoints are involved, a VoIP resource is used up. The available number of VOIP resources limits the number of such calls with IP endpoints. (Also see Foot notes 21 and 22).

71 See the sub-sections below for server specific information. The System maximums (such as maximum stations, trunks, IP stations, maximum ports, LSPs etc.) set by MultiVantage software are different from the offer-based limits in the various releases. Some of the differences are noted below.

Media Gateways supported by the Servers:

Servers → Gateways↓	S8700, S8710 IP Connect	S8700, S8710 MultiConn	S8500 (3-PNs as DirectConn / 64 MGs as IPConnect)	S8300 /G700	Comments
G150	Yes	Yes	Yes	Yes	Counts towards H.323 MGs
G250	Yes	Yes	Yes	Yes	Counts towards H.248 MGs
G350	Yes	Yes	Yes	Yes	Counts towards H.248 MGs
G600	Yes		Yes		
G650	Yes	Yes	Yes	Yes	Counts towards max 64 PNs
G700	Yes	Yes	Yes	Yes	Counts towards H.248 MGs
SCC/MCC		Yes	Yes		Counts towards the PNs. S8500 supports max 3; S8700, S8710: supports max 64.
CMC			Yes		S8500 supports max 64 CMC / S8100

71.0 **Note re. VOIP Resources in general:**
Each IP Phone requires one channel. TN cards can go on G650, MCC and SCC.

1. TN2602AP (IP Media Resource 320, a.k.a. Crossfire High Density):
 - a. 320 channels for G.711 and G.726A;
 - b. 280 channels for G.729A/AB.
 - c. It does not support G.723.
 These capacities are the same with either AEA or AES encryption.
2. TN2602AP (a.k.a. Crossfire Low Density) supports
 - a. 80 channels for G.711 and G.726A;
 - b. 80 channels for G.729A/AB.
 - c. It does not support G.723.

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These capacities are the same with either AEA or AES encryption

3. TN2302AP (MedPro a.k.a. Prowler): Capacities impacted if AES encryption algorithm is used.
 - a. 64 G.711 audio channels with AEA (48 with AES);
 - b. 32 G.729A/B and G.723 audio channels with AEA (24 with AES).
4. VOIP engine on the G700 support 64 channels for G.711, and 32 channels for G.729 or G.723.
5. MM760 media module also supports 64 channels for G.711, and 32 channels for G.729 or G.723.
6. G350 VOIP engines support half the capacity of the VOIP engines on the G700.
7. G250 supports 10 VoIP channels for G729/G723 and G711 with or without Encryption.

71.1 **S8300/G700 (ICC):** The S8300 w/G700 has an in-born capacity similar to that of a G3 SI when the Internal Call Controller is in use. When the G700 Media Gateway is being controlled by another platform, the administration of the G700 Gateway counts against the MG capacities already defined for that platform. **Following table provides some of the S8300/G700 offer details (the number of media gateways, Stations and trunks).** Also, the number of supported media gateways limits the entry in the “Total Number of Integrated Boards And/Or Embedded Virtual Announcements Boards” field for the S8300 ICC platform (1 per media gateway).

S8300/G700	Release 1.3	Release 2.0	Release 2.1 and Beyond
Media Gateways	50 G700 MGs	50 G350 / G700 MGs	50 G350/G700 MGs
Number of trunks	450	450	450
Number of stations	450	450	450
Number of LSPs	10	10	50

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S8300/G700 Voice Over Internet Protocol (VOIP) Engine Capacities:

Each VOIP Engine supports 64 G.711 equivalent calls.

In a Configuration with ICC: One VOIP engine is included on the main ICC. 3 more VOIP Engines can be added for increasing the call capacity, for a maximum of 4 VOIP Engines.

In a Configuration without ICC: Each Media Gateway can support up to 5 VOIP Engines.

This is limited by the number of available Media Module slots that are populated with VOIP Engines. The following table provides VOIP Engine Capacities.

NOTE: This table applies to all releases of S8300 w/MG700.

VOIP Capacity of a Single Media Gateway (MG) with and without Internal Call Controller						
Description	VOIP Engine and Call Capacities The column with the () Applies to “Without ICC” Configuration only, which supports 5 MGs					Constraining Factor
Number of VOIP Engines Installed in a Single MG → Type of call ∨	1	2	3	4	(5)	
IP Phone to Legacy Station, Analog Trunk or E1/T1 Facility	32	64	96	128	(160)	Simultaneous G.711 equivalent non-encrypted 2-Way Conversations limited by the VoIP Engine (Note B). Includes call progress tones
IP Phone to IP Phone 2-Way Conversations						Dependent on (1) Ability of the IP phones to Shuffle (2) Performance of the LAN
IP Phone to IP Phone 2-Way Conversations that require Hair Pin capability	64	128	192	256	(320)	(1) Limited by the VoIP Engine (2) Performance of the LAN
IP Phone to IP Phone 3-Way Conference	10	21	32	42	(53)	Simultaneous 3-Way Conversations Limited by the VoIP Engine (Note A)
Transcoding IP to IP phone (from G711, G729 and G723)	32	64	96	128	(160)	Simultaneous 2-Way Conversations Limited by the VoIP Engine (Note A)

Note A: It is important to note that calls between IP Phones depends on (a) the ability of IP Phones to shuffle and (b) the performance of the LAN.

Note B: The maximum cannot be reached simultaneously with all types of calls that require a VOIP Port.

On each Media Gateway, 512 Time-Slots are available, out of which 40 time-slots are used for Call Progress Tones. Each Media Gateway can support a maximum of 236 simultaneous Non-IP connections (472 total time-slots divided by 2 time-slots per call).

71.2

Rel 2: S8700, S8710 Platform (IP Connect / MultiConnect)

Release 2.1 Capacity changes for IP Connect and MultiConnect are provided in the bullet items below.

- Media Gateways: In Release 2 (**both 2.0 and 2.1**), as in Rel. 1.3, the S8700, S8710 MultiConnect and IPConnect platforms support 250 MGs.

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2. LSPs:
 - a. **Release 2.0:** These platforms also support **50** LSPs. Each LSP can support up to 50 G700 Media Gateways.
 - b. **Release 2.1:** These platforms also support **250** LSPs. Each LSP can support up to 50 G700 Media Gateways
3. Port Networks (both Rel 2.0 and 2.1): In addition to these MGs, they support PNs also:
 - a. The S8700, S8710 Multi-connect also supports 64 PNs (MCC, SCC, G650).
 - b. S8700, S8710 IPConnect supports 64 PNs (G600, G650, CMC1).
4. Station Max:

For the S8700, S8710 IP Connect:

 - a. **Rel 1.3** allowed 12k IP+ 4k non-IP stations;
 - b. **In Rel. 2.0**, the 16k stations can be any mix of station types (but the max IP stations is still 12k)
 - c. **In Rel 2.1:** Station Maximum is the same as for MultiConnect (36,000).

On the MultiConnect:
The station max is 36k, however 12k is the max for IP stations.
NOTE: This applies to S8700 IP Connect also in Rel 2.1 and beyond; and for S8700: Rel. 2.2 and beyond.
5. Trunks:

Both IPConnect and MultiConnect support SW-defined limit of 8,000 trunks. But the **offer-based limits** are as follows:

 - a. **Release 2.0:**
 - i. On S8700, S8710 IP Connect the Offer-based limit for overall trunk max as well as IP trunk max is **4000 (which is part of the maximum 12K IP endpoints)**.
 - ii. On MultiConnect Offer limit for IP trunks is **8000** (same as the system max).
 - b. **Release 2.1:** On both IP Connect and MultiConnect systems the Offer limit is **8000** trunks.
6. SIP Trunks:
 - a. **In Release 2:** Although the trunk max is 8000, they allow maximum 1000 SIP trunks (a license file based limit).
 - b. **In Release 3.0: The Maximum number of SIP trunks is 2000.**
7. Maximum Ports: The Offer max for Maximum ports is as specified below (the Software-defined max ports is 44,000 - i.e., 36k endpoints + 8k trunks):
 - a. **Release 2.0:**
 - i. Max ports for IP-Connect is 16,000 ports (this includes both IP and traditional stations and trunks; max IP ports is still 12k).
 - ii. Max ports for MultiConnect 44,000 ports (including both IP and traditional stations and trunks).
 - b. **Release 2.1:** Max ports on IP-Connect is the same as on MultiConnect systems: 44,000 ports (including both stations and trunks).

Other system maximums set by CM software may be different from the offer-based limits in the various releases.

71.3 **S8500 is a new server introduced in Release 2.0** of CM. It is a single server Linux offer, and its capacities are the same as for the S8700, S8710, except where it is truncated by the License File. S8500 specific information:

1. S8500 supports 250 G650/G700/G350 MGs. However the G650 MG is the default offer; this configuration is most suitable for new shipments of the system.
2. In addition, it supports traditional PNs as follows (these are suitable for upgrading G3si to S8500):
 - a. S8500 can support up to 64 CMC (S8100) cabinets as PNs
 - b. S8500 supports 3 PNs if the PNs are MCC or SCC cabinets
3. Although the software supports 8000 trunks, the license file limit is 800 trunks, thus allowing for maximum 3200 ports (2400 stations and 800 trunks) that could consist of both traditional non-IP, and IP endpoints/trunks).
4. S8500 is a standalone offer in Release 2; S8500 as ESS will be supported in a later release.
5. Re. 2.0: 50 LSPs; Rel 2.1: 250 LSPs.

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- 71.4 **S8300/G350:**
S8300/G350 was first offered in Release 2.0, target market being small branch office of a large distributed system. In a standalone configuration, it is a S8300 Server on a G350 Media Gateway, and provides WAN, LAN and PSTN connectivity. Its capacities are much less than S8300/G700.
In Release 2.0: G350 ICC (1) did NOT support subtending Media Gateways (2) did NOT support the Octaplane and (3) Capacities for G350 as ICC was different from G350 as an LSP.
Release 2.1 and beyond: G350 (Both ICC and ECC) supports Call Center applications.
1. **Hardware:**
Media Modules: It supports 6 physical slots (not all are for voice; only 4 out of 6 are recommended for voice; other 2 are for WAN connectivity). It consists of: 1 High-Density Media Module (HDMM) slot, 1 slot for Call Controller (S8300), and 4 slots for other media modules. NOTE: Release 2.1 can support up to 3 Analog Media Modules (MM711).
Embedded AUDIX (CHIA) is supported. But note that this takes up a Media Module slot, and this reduces the number of MM slots available for other purposes. The number of mailboxes on the CHIA is the same as for the G700 platform (450 mailboxes) although the number of users on the G350 platform is only 40 in Release 2.0.
Tone detectors: G350, just like the G700, supports 15 Tone Detectors.
 2. **Call Center features and services are now supported for both ICC (S8300/G350) and ECC (S8700, S8710, S8500, etc.) configurations starting with CM 2.1 - CM 2.0 was certified with ECC only.**
 3. **Stations:** It supports **maximum 40 users** that could be a combination of IP, analog and DCP stations. Maximum for each of these types are: 40 IP endpoints, 24 DCP stations, 18 analog stations. The Software will not prevent administering more than these limits, but in doing so the configuration may not be practical (all station, no trunks; or all stations, no WAN connectivity).
 4. **Trunks:** It can support up to 18 (16 + 2 fixed ports) analog trunks, 1 T1/E1 for digital trunks, and 2 8-port BRI trunk media modules.
 5. **IP endpoints** (station and trunk): 40.
- 72 NOT APPLICABLE. This is Prologix and MAP-D Specific: For use of Co-Resident DLG, you must install a CLAN interface for the G3CSI in order to take advantage of the CLAN bus bridging. The bus bridging provides 1 TDM timeslot, which is 64 kbits, thus producing 4 ASAI links (ASAI links are 16 kbits each).
- 73 QSIG integrated nodes are not limited by a fixed node capacity. However, the size of a QSIG network is limited by physical connectivity and the inter-switch dial plan limitations based upon the customer configuration. With the use of AAR dialing, it is possible to address another user within a QSIG network with up to a 20-digit number, so it is possible to have large QSIG networks.
- 74 When this threshold has been reached, the link is temporarily busied out. There is no user intervention required to re-establish the link.
- 75 (Footnote removed)
- 75.1 For Category B only (Not offered in Release 2.0 and beyond): BCMS only allows a maximum of 25 agents to be Measured, although the System maximum for the number of Logged-In Agents may be more.
- 76 The line item applies to hybrid QSIG/DCS networks. The QSIG portion of the network is unrestricted with respect to the number of nodes (see note 73). The DCS portion, however, is restricted to the DCS node limitations that already exist. Note that a switch that acts as a gateway (both DCS and QSIG links) deducts from the overall DCS node limit.
- 77 R6.3.2 CSI and later without the C-LAN board supports 120 messages/sec. R7 CSI and later, with C-LAN, supports 240 messages/sec. The system limit is 240 messages/sec.
- 78 (Footnote removed)
- 79 The values delineated here are on a per G700 gateway. Each G700 has its own embedded voice announcement capability up to a system maximum level of 10. This maximum is not currently achievable since you can only stack 8 G700 chassis together via the Cajun Octaplane cabling.

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- 80 If the capacity of CMS exceeds the capacity of the DEFINITY or Communication Manager Server (for a single ACD configuration), the Server capacity takes precedence. Additional capacity is provided to support the optional Multi-ACD CMS configuration. The capacities shown for CMS represents the total capacity across all ACDs (total of 8) supported in a Multi-ACD configuration. ACD Member/Agent Login capacities reflect the maximum number of CMS measured agent-split/skill pairs (including AAS ports) that can be logged-in across 8 ACDs. Capacities for R3V11 or later CMS assume a limit of 100K agent-skill pairs. Increased agent-skill pair capacity on CMS will increase CMS platform requirements (see Note 84.1).
- 81 64 is the maximum for number of CLAN boards on all platforms for the S8700, S8710 and S8500 platforms.
- 81.1 Overall System Maximum of all IP ports, including stations and trunks. Thus a system cannot be configured with maximum IP stations (12,000) and maximum IP trunks (8000).
- 82 The S8700, S8710 platform does not support the TN750C announcement board. Customers must upgrade to the VAL (Voice Announcement on LAN) board, and/or use the Embedded announcement sources on the Media Gateways.
- 83 AAS ports are included in the ACD Members, Logged-In Agents and Logged-In IDs Staffed counts on the Communication Manager Server system. Only measured logged-in ACD agent-split/skill pairs (including AAS ports) are counted towards the CMS limits.
- 84 This is the CMS capacity across 8 ACDs. CM 3.0 only supports up to 60,000 agent-skill pairs. Based on performance studies, the recommended agent-skill pair capacities for CMS vary depending on the hardware platform. These capacities are recommendations only and will not be enforced in the CMS software. The hardware platform specifics are as follows:

CMS Hardware Platform	CMS per ACD Agent-Skill Pair Limit	CMS Total Agent-Skill Pair Limit	
		15 Minute Archive	30 Minute Archive
Sun Blade 100/500	50,000	25,000	50,000
Sun Blade 150/650	50,000	25,000	50,000
Fire 880/9002	60,000	75,000	100,000
Fire 880/9004	60,000	100,000	100,000
Fire 880/9006	60,000	100,000	100,000
Fire 880/9008	60,000	100,000	100,000
Fire 890/9002	60,000	75,000	100,000
Fire 890/9004	60,000	100,000	100,000
Fire 890/9006	60,000	100,000	100,000
Fire 890/9008	60,000	100,000	100,000

Limits imposed by R13 Expanded Aux Load Line (supports up to 100 Aux Reason Codes)

Only supported on the Sun Blade 150, Sun Fire V880 and V890 platforms (not supported with Sun Blade 100).

Only a minimum of 30 minute intervals will be supported.

Reduced Agent Interval Data Storage (assumes total agent skill pairs are logged in 24x7 simultaneously):

Agent-Skill Pairs (for an ACD)	Maximum Days of Interval Data
60,000 (see Note)	17.5
50,000	21

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40,000	26
34,000	31
30,000	35
23,500	45
20,000	52
10,000	62

Note: 62 days of interval data can be stored with the CMS R13 standard load line (defaults to 31 days).

- 84.1 CMS requires allocation of trunk data structures called “unmeasured trunks” for tracking of agent-to-agent, bridging, conference, and transfer call sequences that use capacity from the total indicated. The recommended assignment per ACD for “unmeasured trunks” is 25% of the measured trunks. All trunks supported on the CM platform can be assigned as externally measured by CMS.
- 85 Maximum number of call work codes is that which can be stored in the call work code tables on CMS. This is not the maximum number that can be collected in call records.
- 86 Each client session may include CMS ASCII terminals (max. of 250), Supervisor, Visual Vectors and Network Reporting clients.
- 87 Dual links to CMS require C-LAN TCP/IP.
- 88 Support for Mode 2 backup and restore is not provided in the S8700, S8710 Multi-Connect and S8700, S8710 IP Connect platforms.
- 89 With VAL (TN2501AP) boards, announcements are recorded as MS Windows wave files (*.wav - CCITT u-law/a-law, 8 KHz sampling, 8-bit mono) and can be transferred via FTP to and from the board on a per file basis to a client PC using LAN connectivity. Backup and restore is accomplished via FTP of all the files on each board to-from the client PC.
- 90 The TN2501AP VAL boards and Embedded VAL sources do not use compression to store announcements. All announcement files are 64 Kbps PCM wave files (CCITT u-law/a-law, 8 KHz sampling, 8-bit mono). Announcement file storage requires 8 Kbytes per second of recording time plus about 30 bytes for the header.
- 91 (Footnote Removed)
- 92 BRI Link limited to 8.
- 93 The system requires a fixed length account code between 1 and 15 unless SA 7991 “Variable Length Account Codes” has been activated.
- 94 An additional 166 DS1 interfaces are permitted in the system if SA7491 is enabled; however, these additional DS1 interfaces can only be used for Line Side DS1 connections, not as trunks.
- 94.1 On the S8300, DS1 interfaces are provided using the MM710 Media modules. It should be noted that:
1. On the S8300/G700: Although each Media Gateway can support maximum 4 - 5 MM710s, and the platform can support up to 50 subtending MGs, the absolute maximum can not be calculated as 249 (4 on the G700 + 245 (5 each on the 49 G350s)). This is because other vital system resources such as VOIP resources and tone detectors will be exhausted, making this a blocking MG configuration. Additionally the S8300 only supports maximum 450 trunks.
 2. On the S8300/G350, although it can support maximum 5 MM710s, it is not a realistic configuration since it does not allow for any other MM types.
 3. The S8300/G250 does NOT support BRI.

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- 95 Station Busy Indicators (SBI) maximum when SA7994 is enabled: 25,000 SBIs are available for S8700, S8710 Multi-Connect and S8700, S8710 IP Connect platforms.
- 95.1 Facility Status tracking buttons (Facility Busy Indicators or FBIs) includes:
Maximum SBIs on stations + Maximum Queue status buttons + total DTGS buttons on Attendants + SBIs on attendants (2 SBIs per attendant).
So for the large systems, the FBI maximums are:
- Standard offer: 15,928 (10,000 + 5200 + 672 (24 DTGS * 28 attds) + 56 (2 * 28))
 - With SA7994: 30,928 (25,000 + 5200 + 672 (24 DTGS * 28 attds) + 56 (2 * 28))
- For the S8500s and S8300s etc.:
- 3600 + 500 + 384 (24 DTGS * 16 attds) + 32 (2 * 16 attds).
 - No SA for the smaller systems.
- NOTE** that each of these individual maximums can not be exceeded when arriving at total FBIs on the system. For example, maximum queue status buttons can not exceed the system max, although the SBI maximum may not be reached in a system.
- 96 A total of 80,000 UDP entries are available when SA7948 is enabled.
- 97 A total of 2,000 remote coverage points are available on the DEFINITY CSI platform when SA8467 is enabled. The S8700, S8710 Multi-Connect and S8700, S8710 IP Connect platforms support 10,000 remote coverage points as standard.
- 98 No need for this SA - general increase in 3.0
A total of 2,000 coverage paths are available on the DEFINITY CSI and DEFINITY SI platforms when SA8467 is enabled, and 9,999 coverage paths on the DEFINITY R, S8700, S8710 IP Connect and S8700, S8710 Multi-Connect when SA8467 is enabled. Although the S8300 ICC platform maximums are based on the DEFINITY SI limits, the maximums for the S8300 platform is determined by the Offer limits, which may be lower than the system-defined maximum. Please see Note 71.1 for details.
- 99 Prefixed extensions can take any length between 2 and 6 digits. Only regular extensions can be of 7 digits in length. The prefixed extension length refers to the number of dialed digits, not the true extension length. For prefixed extensions of length 2-6, their corresponding administered true extension lengths range from 1-5.
- 100 In the code base, this number is known as MAXDAC, the maximum number of dial access codes that are commonly referred to as Feature Access Codes.
- 101 The S8700, S8710 IP-connect currently shares the same maximum as the S8700, S8710 Multi-connect, but the offer limit is based on License File truncation.
- 102 This value is the total number of traditional trunks permitted in the system. IP trunks are part of this overall max. For both IPConnect and MultiConnect, the maximum trunk capacity is the same as the SW max of 8000 trunk ports. However the maximum number of SIP Trunks supported on these is different. See Footnote 71.2 for details.
- 103 S8700, S8710 IP Connect does not support ATM PNC connectivity.
- 104 The administrative limit for EC500 mappings is half the Station User Maximum, for each of the target systems. However, it is possible to run out of station records before this limit is reached if configuring the EC500 users in a typical bridging arrangement that requires 3 station records per EC500 user (1 Principal desk set, and 2 XMOBILE stations as bridges of the 2 Call Appearances of the Principal).
Also see Footnote 71.1. EC500 maximums are also set based on the offer limits for the station maximums for the specific platforms.
- 105 **EC500 / EC500 OPTIM:** Station users administered with the EC500 capability count towards the station user maximums set by the platform-specific offer limits. But this offer limit does not include the XMOBILE mappings. The XMOBILE mappings are gated by the software-defined station user capacity.

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- On the traditional platforms, EC500 capacities are the same as the earlier releases (Principal + 2 XMOBILE stations in a typical configuration). The offer-limit based maximum EC500 users for S8300, for the various releases are as follows: max 125 EC500 users in Release 1.2; max 225 EC500 users in Release 1.3.
- On the newer Linux platforms (S8700, S8710 IP Connect, S8700, S8710 MultiConnect and the S8500) in Release 2.0, the EC500 OPTIM user capacity is the same as the station user maximum for each of the platforms.

106 Locations administration allows for remote Port Networks as well as Remote Offices and Gateways to have slightly variant administration than the PPN or Controller. The Location administration allows for Time of Day Offset, Area Code, and Daylight Savings Rules to be applied differently at the various locations. These location values can also be used in AAR/ARS administration to make location specific route selection. Locations include EPNs as well as gateways, but there are some limitations.

Though the S8700, S8710 platform can support 64 EPNs plus 250 Media Gateways, the number of ARS Locations is limited to 250.

Location ID support by the Call Center CMS adjunct:

- Release 12 of CMS (which coincides with Release 2.0 of ACM) supports up to 250 Location IDs.
- Earlier releases of CMS support only up to 44 Location IDs. The switch (ACD software) maps any location ID above 44 to location ID 0 in agent and trunk event messages to CMS.

107 Only with ADJLK (CVCT).

108 8 links are possible; a CLAN board is necessary to get the full bandwidth.

109 120 applies to configuration with MAPD only (using TDM bus bridge); 240 applies to configuration with MAPD where CLAN serves as the bus bridge.

110 **Announcement Capacity:** The VAL Board (TN2501) has a capacity to record up to 1 hour of announcements; the G700 embedded announcement source can store up to 20 minutes of recording; the G250/G350 embedded VAL source can store up to 10 minutes.

111 ARS enhancements for the S8700, S8710 platform are as follows (Note that some of the G3R capacities were even lower):

1. Locations: increased from 64 to 250;
2. Digit Analysis entries increased from 4000 to 8000;
3. Digit Conversion entries increased from 3000 to 4000;
4. Toll entries increased from 1000 to 2000;

In addition, following 2 items indirectly allow the capability to have more entries on all the forms (analysis, conversion, toll) with longer digit strings

5. Long Internal Digit Nodes: increased from 3500 to 4500;
6. Short Internal Digit Nodes, increased from 6000 to 9000.

ARS enhancements for the S8300 platform (compared to G3SI capacities) are as follows:

1. Locations: increased from 10 to 50;
2. Digit Analysis entries increased from 2000 to 4000;
3. Digit Conversion entries increased from 400 to 2000;
4. Toll entries: 1000 (no change).

In addition, following 2 items indirectly allow the capability to have more entries on all the forms (analysis, conversion, toll) with longer digit strings

5. Long Internal Digit Nodes: increased from 500 to 1500;
6. Short Internal Digit Nodes, increased from 3000 to 6000.

112 Requires Increased Adjunct Route Capacity RTU enabled via License File.

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- 113 Footnote deleted.
- 114 The **Remote Office Feature group** was created in R9.2 on CM. They provide connectivity over the WAN. The Remote Office Gateways can be served by S8700, S8710, S8500, S8300, G3si and G3csi as the Main CM.
NOTE: The 250 maximum RO Gateways is separate and independent from the H.248 MG capacity limit, also 250. So essentially a system can be configured with:
- 64 PNs
 - 250 H.248 MGs (mix of G700, G350, G250 etc.)
 - 250 Remote Offices (could be a mix of R300s, MultiTechs and G150s)
- The **R300** was the first product instantiation to utilize this feature.
- The newly introduced **G150 IP Office Gateway** is a H.323 based gateway, and operates under the jurisdiction of this feature group both from a perspective of call processing and administration. Three models of the G150 are being supported: G150 2T + 4A (3 VOIP); G150 4T + 4A + 8DS (3VOIP); and G150 4T + 4A + 8DS (16VOIP).
- The existing **MultiTech gateway** is an H.323 managed gateway. However it is not defined as a Remote Office gateway. It's use of the protocols is a bit different. Its stations are managed as H323 type of stations (which do count as IP stations). Its trunks are managed as IP trunks. But CM does not have a perspective of it as a "gateway" from the perspective of building tables and associating stations/trunks together from a maintenance/administrative/call processing point-of-view
- From an engineering calculation point-of-view, one can start with the capacity limits re. Number of gateways per platform. But there is some interplay in that a system designer must look at:
1. CM Server Resources to check for the allowed limits of IP endpoints and IP Trunks.
Each G150 analog/DCP station counts as IP one endpoint on the CM. Each analog trunk or digital trunk's DS0 counts as an IP trunk.
 2. Signaling Groups Supported on the CM platform.
- From the past experiences with gateway users, the signaling group limitation tends to be encountered as the first "hard limit". However, those customers that are adding some gateways to systems which are heavily loaded with existing stations and trunks can sometimes run into limitations on IP station or trunks. Each customer may be different and the account teams must do system configuration work with their engineers.
- 115 The increase to agents in the same group applies only to Expert Agent Selection skill groups assigned as ucd-mia or ead-mia group type.
- 116 **Video Capacity:**
1. **G3CSI:** It does NOT support H.323 Video.
 2. **Video Call handling Capacity:** S8700 / S870 platforms support 6000 Busy Hour Video Call Attempts.
 3. **Video Capable stations / endpoints:** Although this is the same as the IP stations limit, the VSX Video station type usually registers to 3 separate extensions, as if it were 3 separate stations. Thus the overall capacity to support these types of endpoints reduces the system capacity to one-third the CM's IP Stations limit.
- 117 Auto / Remote Message Waiting: On S8700 / 88710, a Special Application allows this capacity to be increased to 5000.
- 118 VuStats: A Special Application **SA8558** allows administration of up to 5000 VuStats buttons on the S8700 / S8710 and increases the number of simultaneously updating displays the limit (which is 500) to 3000.
- 119 Intra-Switch CDR: The 5000 endpoints for intra-switch CDR should all be individually administered on the intra-switch cdr form.
With **SA8202** (Intra-switch CDR by COS), this limit can be extended to include all the stations supported on a platform. All phones having the same COS will be included in the intra-switch CDR reporting.
- 120 **SIP Enablement Services:** Avaya SIP Enablement Services Release 3.0 (SES) incorporates the SIP functionality previously introduced as Converged Communications Server Release 2.1, combined with new feature and scalability enhancements. The application combines the standard functions of a SIP proxy/registrar server with SIP trunking support and duplicated server features to create a highly scalable and

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reliable SIP communications network supporting telephony, instant messaging, conferencing, and collaboration solutions. The SES supports:

- a. 1 Edge SES per administrative domain; and
- b. 20 Home SESs per administrative domain.

These can be duplicated servers for providing a high availability solution.

There are two offer models:

1. The standard offer with 1GB RAM, which supports maximum 3,500 SIP endpoints
2. With Performance Pack (Additional 2 GB of RAM for a total of 1 GB) supports maximum 6,000 SIP endpoints.

They can be either Home node only, Edge node only, or a Combined Home/Edge offer.

NOTE:

SES Homes connect to the CM. Capacity information in the Capacities table associated with this footnote is for SES servers (not the CM). The capacity of SES Home may exceed the maximums on the CM for some of the platforms. Such a configuration would require multiple CMs per SES.

Alternately, a CM can be connected to multiple SES Homes (for the larger CM platforms that support large Branch Office scenarios). In Release 3.0 and 3.1, since the CM can support maximum 10 TLS links for SIP, there can be maximum 10 SES Homes per CM.

- 121 An Audio Group defines a list of VAL/vVAL sources (“board” locations) from which announcement files can be obtained. An audio group can be assigned to an announcement extension as the source “location” instead of a specific “single” source “board location”. When the announcement is to be played, the “closest” working source in the list of sources assigned to the audio group is selected to play the file name assigned to the announcement extension. The same audio group can be assigned as the “location” for many announcement extensions (up to 256 since only 256 different announcement files can be stored on any given source). It is required that each of the files for those announcement extensions are duplicated in each of the sources listed for the audio group.
- 122 The extension-source combinations limit is a count of all the sources assigned to defined announcement extensions. With all single sourced "announcements" the total is equal to the total extensions defined (same as w/o LSMA). With group sourced "announcements" each source included in the group defined for the extension is counted towards the limit (i.e., each source a file is in is counted). In a system with a combination of single sourced and group sourced extensions, each of the single sources and the individual sources in the assigned groups are counted towards the limit.