



Avaya Communication Manager  
System Capacities Table  
Release 3.1

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## **Introduction**

This document contains Avaya Communication Manager Release 3.1 offer defined capacities for the various server platforms (S8700 series, S8500, S8300 etc.). Capacities of LSPs and ESSes are that of the main Communication Manager that they are associated with.

Avaya Communication Manager and Avaya Call Management System	Release 3 Linux Server Platforms							
	G3 CSI (See Note 7)	S8700-Series IP Connect See Note-2	S8700-Series Multi Connect See Note 2	S8500, S8500B, S8500C(*) (See Note-3 and Footnote 71.3)	S8400 (NEW Platform in Rel. 3.1)	S8300 /G700 See Note-4	S8300 /G350 See Note-4	S8300 /G250 See Note-5
NOTE: Offer limits (where different) are provided in addition to SW limits.								
Supported Media Gateways and Port Networks ->								
ITEM	w/ CMC1	w/H.248 MGs, H.323 Remote Office GWs (incl. G150)	w/H.248 MGs, H.323 Remote Office GWs (incl. G150), MCC1, SCC1, CMC1	w/H.248 MGs, H.323 Remote Office Gateways (incl. G150), MCC1, SCC1, CMC1	w/ CMC1, G150, G250, G350, G600, G650, G700 (See Note 6 below for details)	W/H.248 MGs and H.323 Remote Office GWs	No subtending H.248 Media Gateways	No subtending H.248 Media Gateways

**NOTES Regarding the Release 3 (including 3.1) System Capacities Table**

Capacities for the various server platforms (S8700/S8710/S8720, S8500, S8400, S8300, etc.) are provided here. Software capacities of LSPs and ESSes are that of the Main CM they are associated with, and so they are not listed separately in this table. (However the call handling capacities are based on the platform limits). The capacities are offer specific and are determined by the License File.

An asterisk (\*) indicates that the software-defined capacity cannot be reached due to HW and/or Processor capacity limits for the platform.

**NOTE-1 Platforms that have been removed from the Release 3 Capacities Table :** (1) **Category B Offer** ; (2) **G3R** ; (3) **G3SI offer End-of-Sale: For New Systems: The last date we can sell new systems will be the end of June 2005. For Upgrades: The end date for upgrades is December 2005. Software Release: The last software release we will support is CM2.2. (4) S8100 (a.k.a. Windows/D1/IP600/gaznt) is NOT OFFERED with CM SW Rel. 2.1 and beyond. However S8100 continues to be supported and offered with CM 2.0. Also see the Introduction section of the document for details. Information for these can be obtained from the Release 2 System Capacities Table.**

**NOTE-2: S8700 Series Platforms:** The Capacities for IP Connect and MultiConnect Systems are the same since Release 2.2. Also NOTE that Media Server capacities and configurations are the same for all S87x0 platforms (8700, 8710, 8720 etc.). **S8720 is a NEW RoHS Compliant platform introduced in Release 3.1 .**

**NOTE-3: S8500 Platforms:** When configured as ESS for S8700 or 8710 servers, both the S8500 and S8500B support the same capacities as the main server. **S8500C is RoHS Compliant NEW platform, which will be available by 4FQ06. It will have the same capacities as the other S8500 platforms.**

**NOTE-4: S8300 Platforms (with G350 and G700 ):** Due to memory needs, Release 2.1 and beyond requires the S8300B board whether it is configured as ICC or LSP. The **S8300/G350** column reflects **G350 as an ICC, not as LSP. G350 ICC:** (1) does NOT support subtending Media Gateways, (2) does NOT support Octaplane and (3) G350 supports Call Center applications. See the policy statement in the cover memo and in footnote 71.4 for details. An ICC processor used as an LSP has the same support capacities as the primary server. **RoHS Compliance : S8300B will be RoHS Compliant by 4FQ06. S8300C is a New RoHS Compliant platform available by 4FQ06.**

**NOTE-5: S8300/G250:** 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. Business Advocate Agent is not available with the G250.

**NOTE-6: S8400 (RoHS Compliant NEW PLATFORM IN RELEASE 3.1 )** Its capacities are mostly based on the G3CSI platform (see the S8400 specific column in this table for details). It can be housed in G650, G600, and the CMC cabinet; G600 and CMC are supported only with migrations to S8400; and S8400 on G650 is supported for new installs as well. The rest of the GWs are remote GWs only. S8400 also supports a PE. CLANs and PE can coexist on an S8400. For the SIP solution, SES can connect over the CLAN or the PE.

**NOTE-7: G3CSI** does not support EPNs. ProLogix is usually configured as a CSI. **G3CSI will be RoHS Compliant by 4FQ06.**

**NOTE-8: G150 Remote Office Gateway** is H.323-based Media Gateway. The system maximum for Remote Office GWs is also 250, but it is separate from the system maximum limit of 250 for H.248 Media Gateways such as the G250, G350, and G700.

10	ABBREVIATED DIALING								
15	AD Lists Per System	2,400*	11,003 <sup>68</sup>	11,003 <sup>68</sup>	11,003 <sup>68</sup>	2,400*	2,400	2,400 *	2,400 *
20	AD List Entry Size	24	24	24	24	24	24	24	24
25	AD Entries Per System	12,000	250,000 <sup>69</sup>	250,000 <sup>69</sup>	250,000 <sup>69</sup>	12,000	12,000	12,000*	12,000*
30	ABBREVIATED DIALING BUTTONS <sup>1</sup>								

Avaya Communication Manager and Avaya Call Management System		Release 3 Linux Server Platforms							
		G3 CSI (See Note 7)	S8700-Series IP Connect See Note-2	S8700-Series Multi Connect See Note 2	S8500, S8500B, S8500C(*) (See Note-3 and Footnote 71.3)	S8400 (NEW Platform in Rel. 3.1)	S8300 /G700 See Note-4	S8300 /G350 See Note-4	S8300 /G250 See Note-5
NOTE: Offer limits (where different) are provided in addition to SW limits.									
35	Entries per System (same as maximum button capacities on the platform) <sup>1</sup>	See footnote 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 <sup>70</sup>	2 <sup>70</sup>	2 <sup>70</sup>	1	1	1	1
45	Max. entries	10,000	10,000	10,000	10,000	10,000	10,000 <sup>71.1</sup>	10,000 <sup>71.1</sup>	10,000 <sup>71.1</sup>
50	Group Lists	100	1,000	1,000	1,000	100	100	100	100
55	Max. entries	100	100	100	100	100	100	100	100
60	Group lists / extension	3	3	3	3	3	3	3	3
65	System List	1	1	1	1	1	1	1	1
70	Max. entries	100	100	100	100	100	100	100	100
75	Personal Lists	2,400*	10,000	10,000	10,000	2,400*	2,400	2,400	2,400
80	<b>(Rel 3.0.1 and 3.1): Personal Lists (NOTE: Increase applies to Personal Lists only)</b>	2,400*	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	2,400*	2,400	2,400	2,400
85	Max. entries	100	100	100	100	100	100	100	100
90	Personal lists / extension	3	3	3	3	3	3	3	3
95	<b>ANNOUNCEMENTS: See Footnote 105, and also info under the following: ACD, Call Vectoring, Hunt Groups, Recorded Announcements and S8300 Specific Capacities</b>								
100	<b>APPLICATIONS ADJUNCTS</b>								
105	Asynchronous Links (RS232)	5	10	10	10	5	9	9	9
110	Asynchronous Links (CLAN)	NA	10	10	10	10			
115	CDR Output Devices <sup>4,6</sup>	2	2	2	2	2	2	2	2
120	Journal Printers : System Printer <sup>4,6</sup>	2:1	2:1	2:1	2:1	2:1	2:1	2:1	2:1
125	Property Mgmt Systems <sup>4,6</sup>	1	1	1	1	1	NA	NA	NA
130	<b>SES (SIP Enablement Services, f.k.a. CCS) for SIP features and services: See Section on SIP</b>								
135	<b>Application Enablement Services</b>								
140	AES Servers per CM	8	16	16	16	8	16	16	16
145	AES Server Connections per CM	8	16	16	16	8	16	16	16
150	AES Server Interfaces (Processor CLAN/CLAN Boards)	8	16	16	16	8	16*	16*	16*
155	<b>Rel 3.1: AES Maximums for above 3 entries (Open and Proprietary)</b>	8	<b>64</b>	<b>64</b>	<b>64</b>	64	<b>64</b>	<b>64</b>	<b>64</b>
160	Inbound Msgs/Second Per AES Connection	200	200	200	200	200	200	200	200
165	Outbound Msgs/Second Per AES Connection	240	240	240	240	240	240	240	240
170	Msgs/Sec/System (full duplex)	240	720	720	720	240	240	240	240
175	<b>Adjunct Links</b>								
180	Maximum Links <sup>4,1</sup>	25	33	33	33	25	25	25	25
185	PPP Links/switch using CLAN board <sup>4,1</sup>	25	33	33	33	25	NA	NA	NA
190	IP Routes (with C-LAN) <sup>4,1</sup>	400	650	650	650	400	NA	NA	NA
195	<b>VOICE PROCESSING ADJUNCTS</b>								
200	<b>Traditional AUDIX</b>	NA	8	8	8 <sup>113</sup>	8	1	1	1
205	<b>EMBEDDED AUDIX</b>	1	NA	1	1	1	1	1 <sup>71.4</sup>	1 <sup>71.4</sup>
210	EMBEDDED AUDIX DCP Emulation	1	NA	1	1	1	NA	NA	NA
215	<b>INTUITY AUDIX</b>								
220	INTUITY AUDIX (Via Mode Code)	1 <sup>4.2</sup>	1 <sup>4.2</sup>	1 <sup>4.2</sup>	1 <sup>4.2</sup>	1 <sup>4.2</sup>	1 <sup>4.2</sup>	1 <sup>4.2</sup>	1 <sup>4.2</sup>
225	INTUITY AUDIX (Via TCP/IP)	1	8	8	8	1	1	1	1
230	INTUITY AUDIX (MAPD)	1	1	1	1	1	NA	NA	NA
235	Mode Code Voice Mail Systems	1 <sup>4.2</sup>	1 <sup>4.2</sup>	1 <sup>4.2</sup>	1 <sup>4.2</sup>	1 <sup>4.2</sup>	1 <sup>4.2</sup>	1 <sup>4.2</sup>	1 <sup>4.2</sup>
240	QSIG MWI Hunt Groups for QSIG-integrated Messaging Platforms <sup>4,3</sup>	NA	10	10	10	NA	10	10	10
245	<b>MODULAR MESSAGING</b>								
250	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	No Switch-based hard limits
255	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	No Switch-based hard limits
260	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	No Switch-based hard limits
265	Modular messaging over CLAN	8 per Switch	8 per Switch	8 per Switch	8 per Switch	8 per Switch	NA	NA	NA

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NOTE: Offer limits (where different) are provided in addition to SW limits.									
270	<b>OTHER ADJUNCTS</b>								
275	CMS C-LAN Adjuncts <sup>4,5</sup>	2	2	2	2	2	NA	NA	NA
280	TCP/IP Processor Channels (Includes Gateway Channels)	128	384	384	384	128	128	128	128
285	<b>AUTOMATIC CALL DISTRIBUTION (ACD) NOTE-1: See end of table for CMS adjunct capacities. NOTE-2: See EAS Section for capacities with EAS active.</b>								
290	Announcements per Split	2	2	2	2	2	2	2	2
295	Announcements per System	128	3,000	3,000	3,000	3,000	3,000	3,000	3,000
300	Splits	99	2,000	2,000	2,000	99	99	99	99
305	ACD Members per Split	200	1,500	1,500	1,500	200	200	200	200
310	Max. Administered ACD members <sup>4,4</sup>	1,000	60,000	60,000	60,000	1,000	1,000	1,000	1,000
315	Logged-In Splits per Agent <sup>5</sup>	4	4	4	4	4	4	4	4
320	<b>Max. logged-in ACD agents (per system) when each logs into:<sup>6</sup></b>								
325	1 Split	500	5,200	5,200	1,000	500	450 <sup>71.1</sup>	40 <sup>71.1</sup>	40 <sup>71.1</sup>
330	R13.1 CMS (See Note 80)	41,600	41,600	41,600	41,600	41,600	41,600	41,600	41,600
335	2 Splits	500	5,200	5,200	1,000	500	450 <sup>71.1</sup>	40 <sup>71.1</sup>	40 <sup>71.1</sup>
340	R13.1 CMS (See Note 80)	41,600	41,600	41,600	41,600	41,600	41,600	41,600	41,600
345	3 Splits	333	5,200	5,200	1,000	333	333 <sup>71.1</sup>	40 <sup>71.1</sup>	40 <sup>71.1</sup>
350	R13.1 CMS (See Note 80)	33,333	33,333	33,333	33,333	33,333	33,333	33,333	33,333
355	4 Splits	250	5,200	5,200	1,000	250	250	40	40
360	R13.1 CMS (See Note 80)	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000
365	Queue Slots per Group <sup>7</sup>	NA	NA	NA	NA	NA	NA	NA	NA
370	Queue Slots per System <sup>7</sup>	NA	NA	NA	NA	NA	NA	NA	NA
375	OFFER: Total Logged In ACD Agents	500	5,200	5,200	1,000	500	450	40	40
380	<b>ARS / AAR</b>								
385	AAR/ARS Patterns (Shared)	254	999	999	999	254	254	254	254
390	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 <sup>111</sup>	8,000 <sup>111</sup>	8,000 <sup>111</sup>	4,000	4,000	4,000	4,000
395	Choices per RHNPA Table	12	24	24	24	12	12	12	12
400	Digit Conversion Entries	400	4,000 <sup>111</sup>	4,000 <sup>111</sup>	4,000 <sup>111</sup>	2000	2,000	2,000	2,000
405	<b>AAR/ARS Digit Conversion</b>								
410	Digits Deleted for ARS/AAR	28	28	28	28	28	28	28	28
415	Digits Inserted for ARS/AAR	18	18	18	18	18	18	18	18
420	<b>AAR/ARS Sub-Net Trunking</b>								
425	Digits Deleted for ARS/AAR <sup>8</sup>	28	28	28	28	28	28	28	28
430	Digits Inserted for ARS/AAR	36	36	36	36	36	36	36	36
435	Entries in each RHNPA Table	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
440	Facility Restriction Levels (FRLs)	8	8	8	8	8	8	8	8
445	Inserted Digit Strings <sup>9</sup>	1,200	3,000	3,000	3,000	1,200	1,200	1,200	1,200
450	<b>Patterns for Measurement</b>								
455	Shared Patterns for Measurement	20	25	25	25	20	20	20	20
460	RHNPA (Remote Home Numbering Plan Area) Tables	32	250	250	250	32	32	32	32
465	Routing Plans	8	8	8	8	8	8	8	8
470	ARS Toll Tables	32	32	32	32	32	32	32	32
475	Entries per Toll Table	800	800	800	800	800	800	800	800
480	Trunk Groups in an ARS/AAR Pattern	6	16	16	16	6	6	6	6
485	UDP (Entries)	10,000	80,000	80,000	80,000	10,110	10,110	10,110	10,110
490	TOD Charts	8	8	8	8	8	8	8	8
495	Toll Analysis Table Entries	1,000	2,000 <sup>111</sup>	2,000 <sup>111</sup>	2,000 <sup>111</sup>	1,000	1,000	1,000	1,000
500	<b>ASAI - See CALLVISOR ASAI</b>								
505	<b>ATTENDANT SERVICE (NOTE: IP Soft Console Capacities is a NEW ENTRY, but NOT a NEWLY INTRODUCED CAPACITY)</b>								
510	Attendant Consoles(day:night) <sup>10</sup>	16 (15:1)	28 (27:1)	28 (27:1)	28 (27:1)	16 (15:1)	16 (15:1)	16 (15:1)	16 (15:1)
520	OFFER: IP Soft Consoles(day:night) <sup>10</sup>	16	28	28	20 <sup>10.1</sup>	16	16	16	5
525	Crisis Alert Stations (on Attd consoles + Crisis Alert buttons on digital stations)	16 + 10	28 + 10 <sup>10.2</sup>	28 + 10 <sup>10.2</sup>	28 <sup>10.1</sup> + 10	16 + 10	16 + 10	16 + 10	16 + 10
530	Attendant Console 100s Groups/Attendant	20	20	20	20	20	20	20	20

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		NOTE: Offer limits (where different) are provided in addition to SW limits.							
535	Attendant Control Restriction Groups	96	96	96	96	96	96	96	96
540	<b>Centralized Attendant Service</b>								
545	Release Link Trunks at Branch	99	255	255	255	99	99	99	99
550	Release Link Trk Grp at Branch	1	1	1	1	1	1	1	1
555	Release Link Trunks at Main	400	4,000	4,000	4,000	400	400	400	400
560	Release Link Trk Grp at Main <sup>11</sup>	99	2,000	2,000	2,000	99	99	99	99
565	<b>Other Access Queues</b>								
570	Max. Number of Queues	12	12	12	12	12	12	12	12
575	Max. Number of Queue Slots <sup>12</sup>	80	80	80	80	80	80	80	80
580	Size range of Reserved Queue	2 - 75	2 - 75	2 - 75	2 - 75	2 - 75	2 - 75	2 - 75	2 - 75
585	Reserved Queue Default Size	5	5	5	5	5	5	5	5
590	Attendant Queue Length	80	300	300	300	80	80	80	80
595	Switched Loops/Console	6	6	6	6	6	6	6	6
600	<b>AUTHORIZATION</b>								
605	Authorization Codes	5,000	90,000	90,000	90,000	5,000	5,000	5,000	5,000
610	Station Security Code Length	7	7	7	7	7	7	7	7
615	<b>Rel 3.0 and 3.0.1: Administrable Classes of Restrictions (COR): Total COR</b>	96: 100	96: 100	96: 100	96: 100	96: 100	96: 100	96: 100	96: 100
620	<b>Release 3.1: Administrable Classes of Restrictions (COR): Total COR NOTE: Increase applies to Linux platforms only</b>	96:100	<b>996: 1000</b>	<b>996: 1000</b>	<b>996: 1000</b>	<b>996: 1000</b>	<b>996: 1000</b>	<b>996: 1000</b>	<b>996: 1000</b>
625	Classes of Service(COS)	16	16	16	16	16	16	16	16
630	Length of Authorization Code	4 - 13	4 - 13	4 - 13	4 - 13	4 - 13	4 - 13	4 - 13	4 - 13
635	Length of Barrier Code	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7
640	Length of Account Codes <sup>93</sup>	1 - 15	1 - 15	1 - 15	1 - 15	1 - 15	1 - 15	1 - 15	1 - 15
645	Restricted Call List	1	1	1	1	1	1	1	1
650	Remote Access Barrier Codes	10	10	10	10	10	10	10	10
655	CDR Account Code List	1	1	1	1	1	1	1	1
660	Toll Call List	1	1	1	1	1	1	1	1
665	Unrestricted/Allowed Call Lists	10	10	10	10	10	10	10	10
670	Total Call List Entries	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
675	<b>AUTOMATIC CALL BACK (ACB) CALLS</b>								
680	Max ACB Calls	240	1,500	1,500	1,500	240	240	240	240
685	<b>AUTOMATIC WAKEUP</b>								
690	Simultaneous Display Requests	10	30	30	30	10	10	10	10
695	Wakeup Requests per System	2,400	15,000	15,000	15,000	2,400	2,400	2,400	2,400
700	Wakeup Request per Extension	2	2	2	2	2	2	2	2
705	Wakeup Requests per 15 min Interval <sup>20</sup>	450	950	950	950	450	450	450	450
710	<b>BASIC CALL MANAGEMENT SYSTEM (BCMS)</b>								
715	Measured Agents or Login Ids	400	3,000	3,000	3,000	400	400 <sup>71.1</sup>	400 <sup>71.1</sup>	400 <sup>71.1</sup>
720	Measured Agents Per Split/Skill	200	1,500 / 3,000 <sup>115</sup>	1,500 / 3,000 <sup>115</sup>	1,500 / 3,000 <sup>115</sup>	200	200	200	200
725	Measured Splits/Skills	99	600	600	600	99	99	99	99
730	Measured Agent-split/skill pairs	1,000	40,000	40,000	40,000	1,000	1,000	1,000	1,000
735	Measured Trunk Groups	32	32	32	32	32	32	32	32
740	Measured VDNs	99	512	512	512	99	99	99	99
745	Max. Agents Displayed by Monitor BCMS Split Command <sup>12.1</sup>	100	100	100	100	100	100	100	100
750	Max. BCMS Terminals	3	4	4	4	3	3	3	3
755	Max. Active Maintenance Commands for System	1	15	15	15	1	1	1	1
760	Max. Simultaneous BCMS Terminals in Monitor Mode <sup>12.2</sup>	1	13	13	13	1	1	1	1
765	<b>Reporting Periods</b>								
770	Intervals	25	25	25	25	25	25	25	25
775	Days	7	7	7	7	7	7	7	7
780	<b>BRIDGING (See entry below for CALL APPEARANCES and BRIDGED CALL APPEARANCES)</b>								
785	<b>CABINETS</b>								
790	<b>Inter-Port Network Connectivity</b>								

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			NOTE: Offer limits (where different) are provided in addition to SW limits.						
795	Port Networks (see footnote for migration)	1	64	64	64	1	NA	NA	NA
800	Max No. of Port Networks per MCC Cabinet	1	NA	5	NA <sup>67</sup>	NA	NA	NA	NA
805	Switch Nodes (Simplex)	NA	NA	3	NA	NA	NA	NA	NA
810	Switch Nodes (Duplex)	NA	NA	6	NA	NA	NA	NA	NA
815	DS1 Converter Complex (Simplex)	NA	41	41	41	NA	NA	NA	NA
820	DS1 Converter Complex (Duplex)	NA	NA	82	NA	NA	NA	NA	NA
825	<b>EPN</b> <sup>13</sup>								
830	MCC	NA	NA	64	NA <sup>67</sup>	NA	NA	NA	NA
835	SCC	NA	NA	64 (4/stk)	3 (4/stk)	NA	NA	NA	NA
840	CMC	NA	64 (3/stk)	NA	64 (3/stk)	NA	NA	NA	NA
845	G600 (19" Rack Mount)	NA	64(4/stk)	NA	64(4/stk)	NA	NA	NA	NA
850	G650 (19" Rack Mount)	NA	64 (5/stk)	64 (5/stk)	64 (5/stk)	NA	NA	NA	NA
855	<b>PPN</b>								
860	CMC	3	NA	NA	NA	3	NA	NA	NA
865	G600 19" Rack Mount Cabinet	NA	NA	NA	NA	3	NA	NA	NA
870	G650 (19" Rack Mount) Cabinet	NA	NA	NA	NA	5	NA	NA	NA
875	<b>CALL APPEARANCES and BRIDGED CALL APPEARANCES</b>								
880	Call Appearances per Station <sup>16</sup>	54	54	54	54	54	54	54	54
885	Max. Call Appearances per Ext.	10	10	10	10	10	10	10	10
890	Min. Call Appearances per Ext.	0	0	0	0	0	0	0	0
895	<b>Primary Extension Bridging</b>								
900	System-wide Maximum Bridged Appearances	900	80,000	80,000	80,000	900	2,400	2,400	2,400
905	Max. Simultaneously Active (Off-hook) Bridge Users on a Call (excluding principal and the calling/called party on the call) <sup>17</sup>	5	5	5	5	5	5	5	5
910	Max Number of Bridges to a Principal's Call Appearance <sup>15</sup> (See below for extended numbers)	25	25	25	25	25	25	25	25
915	Total Users with Bridged Appearances (Station User maximum)	900	36,000 <sup>71.2</sup>	36,000 <sup>71.2</sup>	36,000 <sup>71.3</sup>	900	2,400 <sup>71.1</sup>	2,400 <sup>71.4</sup>	2400 <sup>71.4</sup>
920	Max Number Bridges to a Principal's Call Appearance with Extension that allows additional bridges <sup>15</sup>	63	63	63	63	63	63	63	63
925	Number of Principals that can have the Extended number of Bridges	50	1,250	1,250	1,250	1,250	1,250	1,250	1,250
930	<b>CALL COVERAGE</b>								
935	Coverage Answer Groups (CAG)	200	9,000 <sup>33</sup>	9,000 <sup>33</sup>	9,000 <sup>33</sup>	200	200	200	200
940	Coverage Paths	2,000	9,999	9,999	9,999	2,000	2,000	2,000	2,000
945	Coverage Paths Incl. in Call Covg. Report	100	200	200	200	100	100	100	100
950	Coverage Path per Station	2	2	2	2	2	2	2	2
955	Coverage Points in a Path	6	6	6	6	6	6	6	6
960	Remote Coverage Points	999 2,000 <sup>97</sup>	10,000	10,000	10,000	999 2,000 <sup>97</sup>	999 2,000 <sup>97</sup>	999 2,000 <sup>97</sup>	999 2,000 <sup>97</sup>
965	Max Users/Coverage Path	3,500*	47,088	47,088	47,088	3,500*	3,500*	3,500*	3,500*
970	Members per CAG	8	8	8	8	8	8	8	8
975	Time of Day Coverage Tables	999	999	999	999	999	999	999	999
980	Time of Day Changes per Table	5	5	5	5	5	5	5	5
985	Remote Admin Coverage Paths	2	2	2	2	2	2	2	2
990	<b>CALL DETAIL RECORDING</b>								
995	Intra-switch Call Trackable Extensions <sup>119</sup>	1,000	5,000	5,000	5,000	1,000	1,000	1,000	1,000
1000	Max. No. of CDR Records That Can Be Buffered in the Switch <sup>54.1</sup>	500	17,326	17,326	17,326	500	500	500	500
1005	No. of Records Buffered for the Primary. Output Device That Will Cause Secondary Device to be Busied Out for 2 Minutes <sup>54.1</sup>	200	1,900	1,900	1,900	200	200	200	200
1010	<b>CALL FORWARDING</b>								
1015	Call Forwarded Digits (off-net)	16	16	16	16	16	16	16	16
1020	Total number of Call Forwarded stations	2,400	36,000 <sup>71.2</sup>	36,000 <sup>71.2</sup>	36,000 <sup>71.3</sup>	2,400	2,400 <sup>71.1</sup>	2,400 <sup>71.1</sup>	2,400 <sup>71.1</sup>
1025	<b>CALL PARK</b>								
1030	Attd. Grp. Common Shared Ext. Numbers. Per System <sup>19</sup>	80	80	80	80	80	80	80	80

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		G3 CSI (See Note 7)	S8700-Series IP Connect See Note-2	S8700-Series Multi Connect See Note 2	S8500, S8500B, S8500C(*) (See Note-3 and Footnote 71.3)	S8400 (NEW Platform in Rel. 3.1)	S8300 /G700 See Note-4	S8300 /G350 See Note-4	S8300 /G250 See Note-5
		NOTE: Offer limits (where different) are provided in addition to SW limits.							
1035	No. of Parked Calls	723	10,604	10,604	10,604	723	723	723	723
1040	<b>CALL PICKUP GROUPS: (based on station user max)</b>								
1045	Call Pickup Members/Group	50	50	50	50	50	50	50	50
1050	Call Pickup Members/System	900	36,000	36,000	36,000	2,400	2,400 <sup>71.1</sup>	2,400 <sup>71.1</sup>	2,400 <sup>71.1</sup>
1055	No. of Groups	800	5,000	5,000	5,000	800	800	800	800
1060	<b>CALL VECTORING.</b>								
1065	Skills a Call Can Simultaneously Queue to	3	3	3	3	3	3	3	3
1070	Priority Levels	4	4	4	4	4	4	4	4
1075	Recorded Announcements/Audio Sources for Vector Delay	128	3,000	3,000	3,000	3,000	3,000	3,000	3,000
1080	Vector Steps per Vector	32	32	32	32	32	32	32	32
1085	Vector Directory Numbers	512	20,000	20,000	20,000	512	512	512	512
1090	CMS Measured VDNs	512	20,000	20,000	20,000	512	512	512	512
1095	R13.1 CMS	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
1100	Vectors per System (2,000 capacity requires R13.1 CMS)	256	2,000	2,000	2,000	256	256	256	256
1105	R13.1 CMS <sup>80</sup>	7,992	7,992	7,992	7,992	7,992	7,992	7,992	7,992
1110	Simultaneous Active Subroutine Calls	400	8,000	8,000	8,000	400	400	400	400
1115	Number of Collected Digits for Call Prompting or CINFO	16	16	16	16	16	16	16	16
1120	Number of Dial-Ahead Digits for Call Prompting	24	24	24	24	24	24	24	24
1125	Vector Routing Tables (100 entries per table)	10	100	100	100	10	10	10	10
1130	BSR Application Routing Tables (forms)	255	511	511	511	255	255	255	255
1135	BSR Application-Location Pairs <sup>20.5</sup>	1,000	2,560	2,560	2,560	1,000	1,000	1,000	1,000
1140	Holiday Tables (15 entries per table)	99	99	99	99	99	99	99	99
1145	<b>CALLVISOR ASAI (system wide limits shown unless otherwise noted - each limit is achievable on a single link)</b>								
1150	Adjunct Control Associations per Call (3rd prty make call or take control)	1	1	1	1	1	1	1	1
1155	Active Adjunct Control Associations (Simultaneous Active Call Controlled Calls and Max Adj. Transaction Records)	600	8,000	8,000	8,000	600	600	600	600
1160	Active Adjunct Route Requests	300	2,000 or 4,000 <sup>112</sup>	2,000 or 4,000 <sup>112</sup>	2,000 or 4,000 <sup>112</sup>	300	300	300	300
1165	Active Notifications per Call	3	6	6	6	6	6	6	6
1170	Active Notifications per Split Domain	3	6	6	6	6	6	6	6
1175	Active Notifications per VDN Domain	3	6	6	6	6	6	6	6
1180	Domain-Control Associations per Call	12	24	24	24	24	24	24	24
1185	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	2,000
1190	Domain-Control Split/Skill Associations	300	2,000	2,000	2,000	300	300	300	300
1195	Domain-controllers per Station Domain	2	4	4	4	4	4	4	4
1200	Domain-controllers per Split/skill Domain	4	8	8	8	8	8	8	8
1205	Event Notification Associations	300	10,000	10,000	10,000	300	300	300	300
1210	Max. Calls With Send DTMF Active	16	32	32	32	16	32	32	32
1215	Max Simultaneous Calls Being Classified	80	600	600	600	600	600	600	600
1220	Simultaneous Billing (MultiQuest) Requests	100	1,000	1,000	1,000	100	100	100	100
1225	Simultaneous Selective Listening Disconnected Paths	75	300	300	300	75	75	75	75
1230	<b>ASAI Traffic</b>								
1235	Messages/Second Per ASAI/BRI Link	30	30	30	30	30	30?	30?	30?
1240	Inbound Msgs/Sec Per MAPD CTI Link	120/200 <sup>109</sup>	200	200	200	120/200 <sup>109</sup>	NA	NA	NA
1245	Outbound Msgs/Sec Per MAPD CTI Link	120/240 <sup>109</sup>	240	240	240	120/240 <sup>109</sup>	NA	NA	NA
1250	Msg/Sec per MAPD (full duplex)	120/240 <sup>109</sup>	240	240	240	120/240 <sup>109</sup>	NA	NA	NA
1255	Msgs/Sec. Per ASAI/ADJUNCT IP Link (full duplex)	240	720	720	720	240	240	240	240
1260	Msgs/Sec/System (full duplex)	120/240 <sup>109</sup>	720	720	720	120/240 <sup>109</sup>	240	240	240
1265	<b>Maximum CTI Links</b>								
1270	Rel 3.0: Maximum ASAI Links (Open and Proprietary)	8	16	16	16	NA	16	16	16
1275	Rel 3.1: Maximum ASAI Links (Open and Proprietary)	8	64	64	64	64	64	64	64
1280	CTI Links per MFB	NA	4	4	4	NA	NA	NA	NA

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NOTE: Offer limits (where different) are provided in addition to SW limits.									
1285	CTI Links per MAPD	8	8	8	8	8	NA	NA	NA
1290	<b>CONFERENCE</b>								
1295	Maximum Number of Parties in a Conf	6	6	6	6	6	6	6	6
1300	Simultaneous 3-way Conf. Calls <sup>21</sup>	161	10,304	10,304	10,304	161	157/MG	157	157
1305	Simultaneous 6-way Conf. Calls <sup>22</sup>	80	5,152	5,152	5,152	80	78/MG	78	78
1310	<b>Meet-Me Conferencing</b>								
1315	Max. No. of Conference Parties	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6
1320	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	0 or 6
1325	Meet-Me Conference VDNs	175	1,800	1,800	1,800	175	175	175	175
1330	<b>Expanded Meet-Me Conferencing (EMMC) NOTE: The Meet-me Conf VDN Maximums apply to EMMC as well.</b>								
1335	Maximum EMMC Ports	NA	300	300	300	300	300	300	300
1340	Conferees in EMMC:	NA	3-300	3-300	3-300	3-300	3-300	3-300	3-300
1345	<b>DATA PARAMETERS</b>								
1350	Administered Connections	128	128	128	128	128	NA	NA	NA
1355	<b>ALPHANUMERIC DIALING</b>								
1360	Max. entries	200	1,250	1,250	1,250	200	NA	NA	NA
1365	Characters/Entry	22	22	22	22	22	NA	NA	NA
1370	PRI Endpoints (PE)	25	50	50	50	25	NA	NA	NA
1375	Access Endpoints(# of Trunks)	400	8000	8000	8000	400	NA	NA	NA
1380	<b>MULTIMEDIA PARAMETERS</b>								
1385	TN787D MMI Boards	4	NA	12	12	4	NA	NA	NA
1390	TN788B VC Boards	25	NA	69	69	25	NA	NA	NA
1395	MMI and VC Boards in Multiple PN	NA	NA	Yes	Yes	NA	NA	NA	NA
1400	Multimedia One Number Conferences Per System	800	NA	2,000	2,000	800	NA	NA	NA
1405	Multimedia Dynamic Conference Records	64	NA	192	192	64	NA	NA	NA
1410	Maximum Number of BRI Connections <sup>101</sup>	1,000	7,000	7,000	7,000	1,000	1,000	1,000 *	1,000 *
1415	<b>DIGITAL DATA ENDPOINTS</b>								
1420	<b>DIAL PLAN</b>								
1425	DID LDNs	8	20	20	20	8	8	8	8
1430	Maximum Extensions (of all types) <sup>24</sup>	3,500*	49,733	49,733	49,733	3,500*	3,500	3,500	3,500
1435	Station Extensions (part of the total extensions above) <sup>24.1</sup>	2,416*	36,051	36,051	36,051	2,416*	2,416	2,416	2,416
1440	Miscellaneous Extensions (part of the total extensions above) <sup>25</sup>	900	26,258	26,258	26,258	900	900	900	900
1445	Extension No. Portability (UDP Entries)	10,000	80,000	80,000	80,000	10,110	10,110	10,110	10,110
1450	<b>Feature Dial Access Codes</b>								
1455	Number of Codes <sup>100</sup>	121	122	122	122	121	122	122	122
1460	No. of Digits in a Feature Access Code	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4
1465	Integrated Directory Entries <sup>27</sup>	2,416	36,028	36,028	36,028	2,416	2,416	2,416	2,416
1470	Maximum Extension Size	7	7	7	7	7	7	7	7
1475	Minimum Extension Size	1	1	1	1	1	1	1	1
1480	<b>NAMES</b>								
1485	No. of names <sup>28</sup>	4,215	48,845	48,845	48,845	4,215	4,215	4,215	4,215
1490	No. of characters in a name	27	27	27	27	27	27	27	27
1495	<b>Non-DID LDNs</b>								
1500	<b>EXTENSIONS (total)<sup>24</sup></b>								
1505	Prefix Extensions	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
1510	Prefix Extensions Lengths <sup>99</sup>	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6
1515	<b>Trunk Dial Access Codes</b>								
1520	No. of Dial Access Codes	317	2,218	2,218	2,218	317	317	317	317
1525	No. of digits in DAC	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4
1530	Locations <sup>106</sup>	10	250 <sup>106</sup>	250 <sup>106</sup>	250 <sup>106</sup>	6	50	50	50
1535	<b>DO NOT DISTURB (DND)</b>								
1540	DND Requests per System	2,400	36,000	36,000	36,000	2,400	2,400 <sup>71.1</sup>	2,400 <sup>71.1</sup>	2,400 <sup>71.1</sup>
1545	Simultaneous Display Requests	10	30	30	30	10	10	10	10
1550	<b>DISPLAY</b>								
1555	Display Formats	50	50	50	50	50	50	50	50

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			NOTE: Offer limits (where different) are provided in addition to SW limits.						
1560	Simultaneous Updating Displays	100	500	500	500	100	100	100	100
1565	<b>EXPERT AGENT SELECTION (EAS) (note 83)</b>								
1570	Skill Groups	99	2,000	2,000	2,000	99	99	99	99
1575	VDN Skill Preferences	3	3	3	3	3	3	3	3
1580	Max. Skills a Call Can Simultaneously Queue to	3	3	3	3	3	3	3	3
1585	Max. Administered ACD Members (login ID / Agent-Skill pairs) <sup>28.1</sup>	6,000	180,000	180,000	180,000	6,000	6,000	6,000	6,000
1590	Max. Staffed (logged-in) ACD Members <sup>28.3</sup> i.e., agent-skill pairs	1,000	60,000	60,000	60,000	1,000	1,000	1,000	1,000
1595	R13.1 CMS (See Note 80)	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
1600	Max. Administered Agent Login IDs <sup>28.4</sup>	1,500	20,000	20,000	20,000	1,500	1,500	1,500	1,500
1605	<b>Max. Skills per Agent</b>								
1610	R13.1 CMS	20	60	60	60	20	20	20	20
1615	Skill Levels (preferences) per Agent Skill	16	16	16	16	16	16	16	16
1620	Max. Staffed (logged-in) EAS Agents per Skill (members per group)	200	3,000 <sup>28.6</sup>	3,000 <sup>28.6</sup>	3,000 <sup>28.6</sup>	200	200	200	200
1625	<b>Max. Logged in EAS Agents (per system) When Each Has:<sup>6</sup></b>								
1630	1 Skill	500	5,200	5,200	1,000	500	450 <sup>71.1</sup>	40 <sup>71.1</sup>	40 <sup>71.1</sup>
1635	R13.1 CMS (See Note 80)	41,600	41,600	41,600	41,600	41,600	41,600	41,600	41,600
1640	2 Skills	500	5,200	5,200	1,000	500	450 <sup>71.1</sup>	40 <sup>71.1</sup>	40 <sup>71.1</sup>
1645	R13.1 CMS (See Note 80)	41,600	41,600	41,600	41,600	41,600	41,600	41,600	41,600
1650	4 Skills	250	5,200	5,200	1,000	333	250 <sup>71.1</sup>	40 <sup>71.1</sup>	40 <sup>71.1</sup>
1655	R13.1 CMS (See Note 80)	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000
1660	10 Skills	100	5,200	5,200	1,000	100	100	40	40
1665	R13.1 CMS (See Note 80)	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
1670	20 Skills	50	3,000	3,000	100	50	50	40	40
1675	R13.1 CMS	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
1680	60 Skills (R12 or later CMS Required)	NA	1,000	1,000	1,000	NA	NA	NA	NA
1685	R13.1 CMS	NA	1,666	1,666	1,666	NA	NA	NA	NA
1700	<b>EXTERNAL DEVICE ALARMING</b>	32	NA	90	90	32	32	32	32
1705	<b>FACILITY BUSY INDICATORS</b>								
1710	Buttons per Tracked Resource	100	500	500	500	100	100	100	100
1715	No. of Station Busy Indicators (SBI)	3,600	10,000 25,000 <sup>95</sup>	10,000 25,000 <sup>95</sup>	10,000 25,000 <sup>95</sup>	3,600	3,600	3,600	3,600
1720	Facility Busy Indicators per system (SBIs + Queue Status buttons + ((24 DTGS buttons and 2 SBIs on each Attendant) * Attd Max)	4,516	15,928 30,928 <sup>95.1</sup>	15,928 30,928 <sup>95.1</sup>	15,928 30,928 <sup>95.1</sup>	4,516	4,516	4,516	4,516
1725	<b>HUNT GROUPS (NON ACD)<sup>28.5</sup></b>								
1730	Announcements per Group	1	1	1	1	1	1	1	1
1735	Announcements per System (See Footnote 18)	128	3,000	3,000	3,000	128	3,000	3,000	3,000
1740	Total Hunt Groups	99	2,000	2,000	2,000	99	99	99	99
1745	Members per Group	200	1,500	1,500	1,500	200	200	200	200
1750	Group Members per System <sup>28.5</sup>	1,000	5,200	5,200	5,200	1,000	1,000	1,000	1,000
1755	Queue Slots per Group <sup>7</sup>	NA	NA	NA	NA	NA	NA	NA	NA
1760	<b>INTERCOM TRANSLATION TABLE (ICOM): Automatic, Manual and Dial</b>								
1765	ICOM groups per system	32	256	256	256	32	32	32	32
1770	Auto/Manual ICOM Groups	32	256	256	256	32	32	32	32
1775	Dial ICOM Groups	32	256	256	256	32	32	32	32
1780	<b>Members per ICOM group</b>								
1785	Auto/Manual ICOM Groups	32	32	32	32	32	32	32	32
1790	Dial ICOM Groups	32	32	32	32	32	32	32	32
1795	Members per System	1,024	8,192	8,192	8,192	1,024	1,024	1,024	1,024
1800	<b>IP and SIP SPECIFIC CAPACITIES (also see sections on OPTIM and Trunks)</b>								
1805	IP Attendant Consoles and Soft Console capacities: See Attendant category								
1810	Total IP ports (including stations and trunks) <sup>81.1</sup> (See entries under the PORTS category for total ports, including ALL prt types)	1,500	12,000 <sup>71.2</sup>	12,000 <sup>71.2</sup>	3,200 <sup>71.3</sup> (2400+800)	1,500	900 <sup>71.1, 113</sup> (450+450)	900 <sup>71.4</sup> (450+450)	900 <sup>71.4</sup> (450+450)
1815	TN799 Circuit Packs (CLAN) <sup>81</sup>	8	64	64	64	8	NA	NA	NA

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NOTE: Offer limits (where different) are provided in addition to SW limits.									
1820	Maximum of all IP Media Resources (TN802B + TN2302AP (64-port) + TN2602AP (80 or 320 port) <sup>71.0</sup>	8	200	200	200	8	built-in VOIP engine	built-in VOIP engine	built-in VOIP engine
1825	OFFER: TN2602AP (IP Media Resource 80) - Part of the Overall Maximum above	2	128	128	128	2	NA	NA	NA
1830	OFFER: TN2602AP (IP Media Resource 320) - Part of the Overall Maximum above	2	128	128	128	2	NA	NA	NA
1835	Maximum Port Networks (including G600s and G650s) - Also see 600 and 650 under Cabinets for the number of Cabinets in a PN.	NA	64	64	64	1	NA	NA	NA
1840	System-wide Maximum H.248 Media Gateways (G250, G350, G700)	NA	250 <sup>71.2</sup>	250 <sup>71.2</sup>	250 <sup>71.3</sup>	5	50 <sup>71.1, 113</sup>	NA	NA
1845	Maximum H.323 Media Gateways (G150, R300, MultiTech) - NOT part of the above limit of 250 H.248 MGs or 64 PNs	80	250	250	250	80	50	50	50
1850	H.248 Media Gateways per LSP	NA	50 <sup>71.2</sup>	50 <sup>71.2</sup>	50 <sup>71.3</sup>	5	50	NA	NA
1860	Offer-defined maximum administered H.323 trunks	400	8,000	8,000	800	400	450	450	10
1865	Max. H.323 IP Stations (part of the Overall Sta. Max) <sup>45</sup>	900	12,000	12,000	12,000	900	450 <sup>71.1,113</sup>	450 <sup>71.4</sup>	450 <sup>71.4</sup>
1870	Offer-defined maximum concurrently registered IP Stations	900	12,000	12,000	2,400	900	450	40	10
1875	Offer-defined maximum IP Agents	500	5,200	5,200	1,000	500	450	40	40
1880	ISDN/IP Trunks (pool of ISDN, IP, and SIP trunk Ports). For SIP Trk Max: See SIP Server below.	400	8,000 <sup>71.2</sup>	8,000	8,000 <sup>71.3</sup>	450	450 <sup>71.1, 113</sup>	450 <sup>71.4</sup>	450 <sup>71.4</sup>
1885	Signaling Groups <sup>60</sup>	110	650	650	650	650	650	650 *	650 *
1890	<b>Rel. 3.0:</b> Number of IP (H.323) Trunk members in a Signaling Group	31	31	31	31	31	31	31	31
1895	<b>Rel. 3.1:</b> Number of IP (H.323) Trunk members in a Signaling Group	99	255	255	255	255	255	255	255
1900	Video-Capable IP trunks (same as IP trunks limit)	NA <sup>116</sup>	8,000 <sup>116</sup>	8,000 <sup>116</sup>	8,000 <sup>116</sup>	450	450 <sup>116</sup>	450 <sup>116</sup>	450 <sup>116</sup>
1905	Video-Capable Stations (same as IP Stations limit - see Voice Terminals Section)	NA <sup>116</sup>	12,000 <sup>116</sup>	12,000 <sup>116</sup>	2,400 <sup>116</sup>	900	450 <sup>71.1,113, 116</sup>	450 <sup>71.4, 116</sup>	450 <sup>71.4, 116</sup>
1910	OFFER: maximum video capable H.323 stations	900	12,000	12,000	2,400	900	450	450	450
1915	OFFER: maximum video capable IP Softphones	900	12,000	12,000	2,400	900	450	450	450
1920	Number of Simultaneous Video Calls	NA <sup>116</sup>	1,000	1,000	1,000	250	75 <sup>116</sup>	75 <sup>116</sup>	75 <sup>116</sup>
1925	<b>Remote Office Feature Group (Also see Footnote 114)</b>								
1930	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 above	See entry for H.323 MGs	See entry for H.323 MGs above
1935	OFFER: Maximum Administered Remote Office Stations	900	12,000	12,000	2,400	900	450	450	450
1940	OFFER: Maximum Administered Remote Office Trunks	400	8,000	8,000	800	400	450	450	0
1945	<b>SIP Enablement Services (SES, a.k.a. CCS)</b>								
1955	<b>Rel 3.0 OFFER:</b> maximum administered SIP trunks	NA	2,000 <sup>71.2</sup>	2,000 <sup>71.2</sup>	800 <sup>71.2</sup>	NA	450 <sup>71.1, 113</sup>	450	10
1965	<b>Rel 3.1 OFFER:</b> maximum administered SIP trunks	NA	5000 <sup>71.2</sup>	5000 <sup>71.2</sup>	800 <sup>71.2</sup>	400	450 <sup>71.1, 113</sup>	450	10
1970	SIP-SES: Number of Edge Nodes in a SIP domain	NA	1	1	1	1	1	1	1
1975	SIP-SES: Number of Home Nodes per domain	NA	20	20	20	20	20	20	20
1980	SIP-SES: Number of Home SESes per CM (based on CM support of max 32 TLS links, and 2 links per Home)	NA	16	16	16	16	16	16	16
1985	SIP-SES: Number of SIP Users per Home Node (Performance Pack: See Footnote 120)	NA	3,500 <sup>120</sup>	3,500 <sup>120</sup>	3,500 <sup>120</sup>	3,500 <sup>120</sup>	3,500 <sup>120</sup>	3,500 <sup>120</sup>	3,500 <sup>120</sup>
1990	SIP-SES: Number of IM (Instant Message) Clients per node	NA	500	500	500	500	500	500	500
1995	<b>Japanese SIP Handset (SUSHI)</b>								
2000	Maximum SUSHI Terminals per System (same as Station User maximum)	NA	36,000	36,000	2,400	2400	450	450	450
2001	OFFER: OPTIM-OPS stations (for SIP and Motorola endpoints)	450	12,000	12,000	2,400	450	450	450	450
2005	Maximum Bridged Call Appearances and Extended Bridged Groups: See Entry above under Call APPEARANCES and BRIDGED CALL APPEARANCES								
2010	<b>SBS (Separation of Bearer and Signaling)</b>								
2015	SBS Trunks	0	1,000	1,000	1,000	1000	NA	NA	NA
2020	SBS Stations	0	500	500	500	500	NA	NA	NA

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		G3 CSI (See Note 7)	S8700-Series IP Connect See Note-2	S8700-Series Multi Connect See Note 2	S8500, S8500B, S8500C(*) (See Note-3 and Footnote 71.3)	S8400 (NEW Platform in Rel. 3.1)	S8300 /G700 See Note-4	S8300 /G350 See Note-4	S8300 /G250 See Note-5
<b>NOTE: Offer limits (where different) are provided in addition to SW limits.</b>									
2025	<b>S8300 specific Capacities (NOTE: Some of them are Applicable to S8300/G700 but Not Applicable to S8300/G350). For example, G700 supports stacked MGs; G350 does not). Embedded Voice Mail applies to the S8400</b>								
2030	Max Media Modules per Stacked Gateway (4MMs per MG)	NA	NA	NA	NA	NA	40 (10MGs*4)	NA <sup>71.4</sup>	NA <sup>71.4</sup>
2035	Total TTRs per Stacked Gateway (10 MGs/stack)	NA	NA	NA	NA	NA	64	16	16
2040	Tone Detection Devices per Gateway (General) <sup>39</sup>	NA	NA	NA	NA	NA	15	15	15
2045	ASAI CTI Links	NA	NA	NA	NA	NA	64 (with ICC)	64 (with ICC)	64 (with ICC)
2050	<b>Embedded Voice Mail</b>								
2055	Number of Mail Boxes	NA	NA	NA	NA	450	450	450 <sup>71.4</sup>	450 <sup>71.4</sup>
2060	Number of Ports	NA	NA	NA	NA	8	8	8	8
2065	Number of Hours of Storage	NA	NA	NA	NA	1400	1,400	1,400	1,400
2070	<b>Embedded Announcements</b>								
2075	Announcement Files	NA	NA	NA	NA	NA	256	256	256
2080	Minutes of Recording	NA	NA	NA	NA	NA	20	10	10
2085	Number of Simultaneous Playback Channels	NA	NA	NA	NA	NA	15	6	6
2090	Number of Record Channels	NA	NA	NA	NA	NA	1	1	1
2095	<b>LAST NUMBER DIALED</b>								
2100	Entries/System <sup>29</sup>	3,216	43,528	43,528	43,528	3,216	3,216	3,216	3,216
2105	Number of Digits	24	24	24	24	24	24	24	24
2110	<b>LEAVE WORD CALLING (SWITCH BASED) and MESSAGE WAITING</b>								
2115	Rel 3.0: System-wide Messages Stored	2,000	6,000	6,000	6,000	2,000	2,000	2,000	2,000
2120	Rel 3.1: System-wide Messages Stored	2,000	12,000	12,000	12,000	2,000	2,000	2,000	2,000
2125	Max Remote Leave Word Calling Messages	1,000	2,000	2,000	2,000	1,000	1,000	1,000	1,000
2130	Messages per User	125	125	125	125	125	125	125	125
2135	<b>REMOTE MESSAGE WAITING INDICATORS</b>								
2140	Remote MWI Per Extension	80	80	80	80	80	80	80	80
2145	Remote MWI Per System (Linux Servers: Station user max / 20; G3CSI: Station user max / 10)	90	1,800 <sup>117</sup>	1,800 <sup>117</sup>	1,800	120	240	240	240
2150	Simultaneous Message Retrievers	60	400	400	400	60	60	60	60
2155	System-wide Super Message Retrievers (can retrieve anyone's messages)	10	10	10	10	10	10	10	10
2160	<b>MALICIOUS CALL TRACE</b>								
2165	Max. Simultaneous Traces	16	16	16	16	16	16	16	16
2170	<b>MULTIPLE LISTED DIRECTORY NUMBERS (MLDN)</b>								
2175	Via DID	8	20	20	20	8	8	8	8
2180	Via DID w/Tenant Partition	20	100	100	100	20	20	20	20
2185	Via CO	99	2,000	2,000	2,000	99	99	99	99
2190	<b>MODEM POOL GROUPS - Mode 2/Analog</b>								
2195	Group members per system	160	NA	2,016	2,016	160	160	160	160
2200	Number of groups	5	NA	63	63	5	5	5	5
2205	Members per group	32	NA	32	32	32	32	32	32
2210	<b>NETWORKING (Also see Trunks)</b>								
2215	CAS RLT Nodes	99	99	99	99	99	99	99	99
2220	<b>DCS Nodes <sup>31</sup></b>								
2225	TCP/IP	63*	63	63	63	63*	63*	63*	63*
2230	ISDN PRI (Public and/or Private)	63*	63	63	63	63*	63*	63*	63*
2235	Hybrid (combination of PRI, BX.25, & TCP/IP)	63*	63	63	63	63*	63*	63*	63*
2240	ENP Nodes <sup>32</sup>	999	999	999	999	999	999	999	999
2245	<b>QSIG Nodes: No Fixed Node Capacity See Footnote 73.</b>								
2250	QSIG/DCS Interworked Nodes <sup>76</sup>	63*	63	63	63	63*	63*	63*	63*
2255	<b>OPTIM Applications such as EC500, OPS, SCCAN, CSP <sup>105</sup></b>								
2260	Rel 3.0: Number of OPTIM applications per Station (One of EC500, OPS or SCCAN)	1	1	1	1	1	1	1	1
2265	Rel 3.1: Number of OPTIM applications per Station (EC500, OPS, SCCAN, CSP)	4	4	4	4	4	4	4	4
2270	Software-defined Station Capacity <sup>104</sup>	900	36,000 <sup>71.2, 120</sup>	36,000 <sup>71.2, 120</sup>	36,000 <sup>71.2, 120</sup>	2400	2,400	2,400 <sup>71.4</sup>	2,400 <sup>71.4</sup>
2275	OFFER: maximum EC500 telephones	450	36,000	36,000	2,400	450	450	450	450

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		G3 CSI (See Note 7)	S8700-Series IP Connect See Note-2	S8700-Series Multi Connect See Note 2	S8500, S8500B, S8500C(*) (See Note-3 and Footnote 71.3)	S8400 (NEW Platform in Rel. 3.1)	S8300 /G700 See Note-4	S8300 /G350 See Note-4	S8300 /G250 See Note-5
		<b>NOTE: Offer limits (where different) are provided in addition to SW limits.</b>							
2280	OFFER: OPTIM-OPS stations (for SIP and Motorola endpoints)	450	12,000	12,000	2,400	450	450	450	450
2285	EC500, OPTIM Mapping Table Capacity	450	36,000 <sup>71.2</sup>	36,000 <sup>71.2</sup>	36,000 <sup>71.3</sup>	2400	2,400	2,400	2,400
2290	<b>PAGING</b>								
2295	Code Calling IDs	125	125	125	125	125	125	125	125
2300	Loudspeaker Zones	9	9	9	9	9	9	9	9
2305	<b>Group Paging using Speaker Phone<sup>50</sup></b>								
2310	Number of groups	32	32	32	32	32	32	32	32
2315	Members per Group	32	32	32	32	32	32	32	32
2320	<b>PARTITIONS</b>								
2325	Attendant Groups (System wide)	16	28	28	28	16	16	16	16
2330	Tenant Partitions	100	100	100	100	100	100	100	100
2335	Multiple Music on Hold Sources	100	100	100	100	100	100	100	100
2340	<b>PERSONAL CO LINES (PCOL)</b>								
2345	PCOL Appearances	16	16	16	16	16	16	16	16
2350	PCOL Lines (Trunk Groups)	200	200	200	200	200	200	200	200
2355	PCOL Trunks Per Trunk Group	1	1	1	1	1	1	1	1
2360	<b>PORTS (Max Ports incl. Stations and trunks)</b>								
2365	SW-defined Max Ports on System (Stations and Trunks)	1,300	44,000 <sup>71.2</sup> (36k+8k)	44,000 <sup>71.2</sup> (36k+8k)	44,000 <sup>71.3</sup> (36k+8k)	1,300	2,850 <sup>71.1, 113</sup> (2400+450)	2,850 <sup>71.4</sup> (2400+450)	2,850 <sup>71.4</sup> (2400+450)
2370	Offer-defined maximum number of ports	1,300	44,000	44,000	3,200	1,300	900	900	900
2375	<b>PORT CIRCUIT PACK SLOTS<sup>34</sup></b>								
2380	<b>Per EPN</b>								
2385	MCC Std. Reliability	NA	NA	99	99	NA	NA	NA	NA
2390	SCC Std. Reliability	NA	NA	71	71	NA	NA	NA	NA
2395	<b>Per PPN</b>								
2400	MCC Std. Reliability	NA	NA	60,80	60,80	NA	NA	NA	NA
2405	Small Cabinet Std. Reliability	NA	NA	33	33	NA	NA	NA	NA
2410	CMC Std. Reliability	28	NA	NA	NA	38	NA	NA	NA
2415	G600 Reliability	NA	NA	NA	NA	28	NA	NA	NA
2420	G650 Reliability	NA	NA	NA	NA	68	NA	NA	NA
2425	<b>RECORDED ANNOUNCEMENTS / AUDIO SOURCES FOR VECTOR DELAY</b>								
2430	Announcement/Audio Sources per System <sup>18</sup>	128	3,000	3,000	3,000	128	3,000	3,000	3,000
2435	<b>Analog &amp; Aux Trunk Announcements</b>								
2440	Queue Slots per Announcement	150	1,000	1,000	1,000	150	1,000	1,000	1,000
2445	Queue Slots per System	150	1,000	1,000	1,000	150	1,000	1,000	1,000
2450	Calls Connected to Same Announcement	150	1,000	1,000	1,000	150	1,000	1,000	1,000
2455	<b>Integrated Announcements</b>								
2460	Queue Slots for System	200	4,000	4,000	4,000	200	4,000	4,000	4,000
2465	Calls Connected to Same Announcement	50	1,000	1,000	1,000	50	1,000	1,000	1,000
2475	OFFER LIMIT: VAL Boards (TN2501)	5	10	10	8	5	NA	NA	NA
2480	Total Announcement Sources: Integrated Boards 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	5 TN2501 + 5 vVAL	50 vVAL Annc. Sources	1 (No subtending MGs)	1 (No subtending MGs)
2485	<b>TN750 C Boards</b>								
2490	Channels per Board (playback ports)	16	NA	NA	NA	NA	NA	NA	NA
2495	Maximum Announcements per Board	256*	NA	NA	NA	NA	NA	NA	NA
2500	Board Contents Saved <sup>88</sup>	1	NA	NA	NA	NA	NA	NA	NA
2505	<b>Recording Time (Min:Sec)</b>								
2510	16 KB Recording	8:32	NA	NA	NA	8:32	NA	NA	NA
2515	32KB Recording	4:16	NA	NA	NA	4:16	NA	NA	NA
2520	64KB Recording	2:8	NA	NA	NA	2:8	NA	NA	NA
2525	<b>TN2501AP (VAL) Boards on Port Network Gateways (G650, G600, CMC1, MCC1, SCC1)</b>								
2530	Channels per Board (Playback Ports)	31	31	31	31	31	NA	NA	NA
2535	Maximum Announcements per Board	256*	256*	256*	256*	256*	NA	NA	NA
2540	Board Content Saved	All active boards	All active boards	All active boards	All active boards	All active boards	NA	NA	NA
2545	<b>Recording Time per Board (in Minutes)<sup>90</sup></b>								

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		G3 CSI (See Note 7)	S8700-Series IP Connect See Note-2	S8700-Series Multi Connect See Note 2	S8500, S8500B, S8500C(*) (See Note-3 and Footnote 71.3)	S8400 (NEW Platform in Rel. 3.1)	S8300 /G700 See Note-4	S8300 /G350 See Note-4	S8300 /G250 See Note-5
		<b>NOTE: Offer limits (where different) are provided in addition to SW limits.</b>							
2550	Low-end Option (Max. 1 Board)	10	10	10	10	10	NA	NA	NA
2555	High-end Option (with up to 5 Boards for CSI; 10 for S8700/S8710)	60	60	60	60	60	NA	NA	NA
2560	<b>G600 Embedded Integrated SSP (Scalable Speech Processor) Announcements</b>								
2565	SSP Boards	NA	1 per G600	NA	NA	NA	NA	NA	NA
2570	Channels per SSP Integ. Annc. Circuit Pack	NA	8	NA	NA	NA	NA	NA	NA
2575	Maximum Announcements per Board	NA	128	NA	NA	NA	NA	NA	NA
2580	Board Contents Saved	NA	All	NA	NA	NA	NA	NA	NA
2585	<b>Recording Time (Min)</b>								
2590	16 KB recording	NA	240	NA	NA	NA	NA	NA	NA
2595	32KB recording	NA	120	NA	NA	NA	NA	NA	NA
2600	64KB recording	NA	60	NA	NA	NA	NA	NA	NA
2605	<b>Embedded Media Gateway Integrated Virtual VAL (Voice Annc. Over LAN) vVAL Announcement Sources</b>								
2610	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	6 or 15	15	6	6
2615	Maximum Announcements per Source	NA	256	256	256	256	256	256	256
2620	Source Contents Saved (VAL FTP download)	NA	All active boards	All active boards	All active boards	All active boards	All active boards	All active boards	All active boards
2625	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	10 or 20	20	10	10
2630	<b>Locally Sourced Music and Announcements (LSMA) - Allows "announcements" &amp; "audio groups" to also be used as Music on Hold sources.</b>								
2635	Audio Groups (for announcements/music) <sup>121</sup>	NA	50	50	50	NA	50	1	1
2640	Sources per Audio Group (VAL and/or vVAL)	NA	250	250	250	NA	50	1	1
2645	Announcement extension-source combinations <sup>122</sup>	NA	3,000	3,000	3,000	NA	3,000	256	256
2650	MOH Groups (for assignment as the system music source or Tenant Partition Multiple Music Source)	NA	10	10	10	NA	10	1	1
2655	Analog/Aux Trk Sources (Ports) per MOH Group	NA	250	250	250	NA	250	NA	NA
2660	Unique Analog/Aux Trunk MOH Ports per System (each referenced only once)	NA	250	250	250	NA	250	NA	NA
2665	<b>SIP Enablement Services (See IP and SIP Specific Capacities)</b>								
2670	<b>STATIONS (See Voice Terminals; also see Ports for maximum ports incl. Stations and trunks)</b>								
2675	<b>SYSTEM ADMINISTRATION</b>								
2680	# Of Login IDs: Customer + Service	11 + 5	50 + 5	50 + 5	50 + 5	11 + 5	11 + 5	11 + 5	11 + 5
2685	Admin History Log File Entries	500	1,800	1,800	1,800	500	500	500	500
2690	Simultaneous Admin Commands <sup>2</sup>	1	10	10	10	1	1	1	1
2695	Simultaneous Maintenance Commands <sup>2</sup>	1	5	5	5	1	1	1	1
2700	Simultaneous System Mgmt. Sessions <sup>2</sup>	5	15	15	15	5	5	5	5
2705	Number of Scheduled Reports	50	50	50	50	50	50	50	50
2710	Access Security Gateway Session History Log Entries	100	250	250	250	100	100	100	100
2715	<b>SPEECH SYNTHESIS CIRCUIT PACKS</b>								
2720	# of Speech Synthesis Circuit Packs	6	40	40	40	6	NA	NA	NA
2725	Channels per Speech Circuit Pack	4	4	4	4	4	NA	NA	NA
2730	<b>TERMINATING EXTENSION GROUPS (TEG)</b>								
2735	TEGs	32	32	32	32	32	32	32	32
2740	Users That May Share a TEG	4	4	4	4	4	4	4	4
2745	<b>TIME SLOTS<sup>36,37</sup></b>								
2750	Simultaneous Ckt Switched Calls <sup>36</sup>	242	15,424	15,424	15,424	242	236	236	236
2755	Total Time Slots	512	32,768	32,768	32,768	512	512 <sup>71.1</sup>	512 <sup>71.4</sup>	512 <sup>71.4</sup>
2760	Time Slots for Voice & Data <sup>38</sup>	484	30,976	30,976	30,976	484	472 <sup>71.1</sup>	472 <sup>71.4</sup>	472 <sup>71.4</sup>
2765	Time Slots per Port Network	512	512	512	512	512	512/MG	512	512
2770	<b>TONE CLASSIFIERS</b>								
2775	Tone Receivers (General) <sup>39</sup>	200	1200	1200	1,200	200	15 / G700	15 / G350	15 / G350
2780	TTR Queue Size	4	4	4 (SCC/MCC)	4	4	NA	NA	NA
2785	Prompting TTR Queue Size	80	80	80 (SCC/MCC)	80	80	NA	NA	NA
2790	<b>TRUNKS (For Max IP trunks, SIP trunks, Signaling Groups etc. also see IP Solutions)</b>								

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		G3 CSI (See Note 7)	S8700-Series IP Connect See Note-2	S8700-Series Multi Connect See Note 2	S8500, S8500B, S8500C(*) (See Note-3 and Footnote 71.3)	S8400 (NEW Platform in Rel. 3.1)	S8300 /G700 See Note-4	S8300 /G350 See Note-4	S8300 /G250 See Note-5
NOTE: Offer limits (where different) are provided in addition to SW limits.									
2795	DS1 Circuit Packs including MM710s on S8300s (PRI/Station only, Total (PRI+Line-side DS1))	30	400 566 <sup>94</sup>	400 566 <sup>94</sup>	400 566 <sup>94</sup>	30	Max 15 MM710s as E1s or 20 MM710 as T1s <sup>94.1</sup>	5 MM710s <sup>94.1</sup>	N/A G250 does not support BRI MM
2800	OFFER: DS1 with Echo Cancellers	30	400	400	50	30	30	NA	NA
2805	Queue Slots for Trunks	198	4,000	4,000	4,000	198	198	198	198
2810	Max No. of Trunks of all types in System	400	8,000 <sup>71.2,102</sup>	8,000 <sup>71.2,102</sup>	8,000 <sup>71.2,102</sup>	400	450 <sup>71.1,102</sup>	450 <sup>71.4,102</sup>	450 <sup>71.4,102</sup>
2815	<b>Total PRI Interfaces</b> <sup>40</sup>	8	400	400	400	8	NA	NA	NA
2820	Qty Emulated Circuits per ATM CES Interface	8	8	8	8	8	NA	NA	NA
2825	Qty of PRI D-channels per ATM CES Interface	8	8	8	8	8	NA	NA	NA
2830	Max. Qty. ATM Interfaces used for CES per PN	2	2	2	2	2	NA	NA	NA
2835	Max. Qty. ATM Interfaces used for CES per System	2	88	88	88	2	NA	NA	NA
2840	Max. Qty. ATM Interfaces (CES+PNC) per system	2	88 <sup>103</sup>	176	88 <sup>103</sup>	2	NA	NA	NA
2845	<b>BRI TRUNKS</b> <sup>42</sup>								
2850	BRI Trunk Circuit Packs	8	250	250	250	250 *	250 <sup>42.2</sup>	250 <sup>42.2</sup>	250 <sup>42.2</sup>
2855	BRI Trunks (Max B-Channels * Max Boards and/or MMs) <sup>42.1</sup>	160	6,000 <sup>42.3</sup>	6,000 <sup>42.3</sup>	6,000 <sup>42.3</sup>	4000	4,000 <sup>71.1</sup>	4,000 <sup>71.4</sup>	4,000 <sup>71.4, 42.3</sup>
2860	<b>SBS Trunks (See IP Solutions)</b>								
2865	<b>ISDN Temporary Signaling Connections</b>								
2870	TSCs in System	656	8,256	8,256	8,256	656	656	656	656
2875	Call Associated TSCs	400	8,000	8,000	8,000	400	400 <sup>71.1</sup>	400 <sup>71.4</sup>	400 <sup>71.4</sup>
2880	Non Call Associated TSCs	256	999	999	999	256	256	256	256
2885	Administered / Fixed TSCs	128	250	250	250	128	128	128	128
2890	<b>Ringback Queue Slots</b>	198	1,332	1332	1,332	198	198	198	198
2895	<b>Trunk Groups</b>								
2900	Trunk Group Hourly Measurements	25	75	75	75	25	25	25	25
2905	Trunk Groups in the System	99	2,000	2,000	2,000	99	99	99	99
2910	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	10
2915	Trunk Members in a Trunk Group	99	255	255	255	99	99	99	99
2920	<b>ISDN / IP / SIP Trunks (Also see section on IP and SIP specific capacities)</b>								
2925	Incoming Call Handling Treatment (ICHT) per Trunk Group	18	54	54	54	18	18	18	18
2930	Incoming Call Handling Treatment (per System)	288	9,999	9,999	9,999	288	288	288	288
2935	User Defined Services	24	60	60	60	24	24	24	24
2940	Usage Allocation Entries (per Plan)	15	15	15	15	15	15	15	15
2945	Number of entries in the Public Unknown Numbering form (for outgoing Caller ID/ANI)	240	9,999	9,999	9,999	240	240	240	240
2950	<b>VOICE TERMINALS</b> <sup>43</sup> (NOTE: The CSI station max is 900). For Blade Server, Station Max is 500.								
2955	Associated Data Modules (e.g. DTDMs)	800	NA	NA	NA	NA	NA	NA	NA
2965	OFFER: maximum stations	900	36,000 <sup>71.2, 101</sup>	36,000 <sup>71.2, 101</sup>	2400 <sup>71.3, 101</sup>	900	450 <sup>71.1,113</sup>	40 <sup>71.4</sup>	15 <sup>71.4</sup>
2970	BRI (Point-to-Point and Multipoint) Stations (part of the Overall Max) <sup>44</sup>								
2975	Point-to-Point	900	7,000	7,000	7,000	1,000	1,000*	1,000*	1,000*
2980	Multipoint (Passive Bus)	900	7,000	7,000	7,000	1,000	1,000*	1,000*	1,000*
2985	Digital Stations (part of the Overall Max) <sup>45</sup>	900	36,000 <sup>71.2, 101</sup>	36,000 <sup>71.2, 101</sup>	36,000 <sup>71.3, 101</sup>	2,400	2,400 <sup>71.1,113</sup>	2,400 <sup>71.4</sup>	2,400 <sup>71.4</sup>
2990	Display Stations (part of the Overall Max)	900	36,000 <sup>71.2, 101</sup>	36,000 <sup>71.2, 101</sup>	36,000 <sup>71.3, 101</sup>	2,400	2,400 <sup>71.1,113</sup>	2,400 <sup>71.4</sup>	2,400 <sup>71.4</sup>
2995	IP Stations (part of the Overall Sta. Max) <sup>45</sup>	900	12,000	12,000	2,400	900	450 <sup>71.1,113</sup>	450 <sup>71.4</sup>	450 <sup>71.4</sup>
3000	OFFER: Maximum concurrently registered IP Stations	900	12,000	12,000	2,400	900	450	40	10
3005	OFFER: Maximum concurrently registered UNAUTHENTICATED IP Stations	900	12,000	12,000	2,400	900	450	40	10
3010	Sta. Button Capacity (K Units) <sup>47</sup>	662.4	17,496	17,496	17,496	662.4	662.4	662.4	662.4
3015	Number Of Administrable Physical Buttons	54,400	1,440,000	1,440,000	1,440,000	54,250	54,400	54,400	54,400
3020	<b>Rel 3.1: Maximum Buttons with Customizable Labels per System</b>	NA	1,440,000	1,440,000	1,440,000	54,250	54,400	54,400	54,400
3025	Station Button Feature Capacity <sup>48</sup>	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900
3030	<b>VUSTATS</b>								
3035	Measured Agents or Login Ids	400	3,000	3,000	3,000	400	400 <sup>71.1</sup>	400 <sup>71.4</sup>	400 <sup>71.4</sup>

Avaya Communication Manager and Avaya Call Management System		G3 CSI (See Note 7)	Release 3 Linux Server Platforms						
			S8700-Series IP Connect See Note-2	S8700-Series Multi Connect See Note 2	S8500, S8500B, S8500C(*) (See Note-3 and Footnote 71.3)	S8400 (NEW Platform in Rel. 3.1)	S8300 /G700 See Note-4	S8300 /G350 See Note-4	S8300 /G250 See Note-5
<b>NOTE: Offer limits (where different) are provided in addition to SW limits.</b>									
3040	Measured Splits/Skills	99	600	600	600	99	99	99 <sup>71.4</sup>	99 <sup>71.4</sup>
3045	Measured Trunk Groups	32	32	32	32	32	32	32 <sup>71.4</sup>	32 <sup>71.4</sup>
3050	Measured VDNs	99	512	512	512	99	99	99 <sup>71.4</sup>	99 <sup>71.4</sup>
3055	Max. VuStat Buttons <sup>118</sup>	100	1000	1000	1000	100	100	100	100
3060	System Max. Simultaneous Updating Displays	100	500	500	500	100	100	100	100
3065	<b>Reporting Periods</b>								
3070	Intervals	25	25	25	25	25	25	25	25
3075	Days	1	1	1	1	1	1	1	1
3080	<b>CMS Switch Links<sup>87</sup></b>								
3085	R3V9/R3V11/R12/R13/R13.1 CMS	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2
3090	<b>CMS Capacities (see note 84.2 for R13.1 orderable models)</b>								
3095	<b>CMS Capacity Item</b>		<b>R13.1 CMS Total Capacity</b>						
3100	ACDs (multi-ACD configuration)		8						
3105	ACD Admin Log Records		30,000						
3110	Agent Traces Active		400						
3115	Agent Trace Records		500,000						
3120	Call Records (internal)		5,000						
3125	CWC <sup>85</sup>		1,999						
3130	Max. CWCs collected in the call record		6						
3135	Exception Records		2,000						
3140	External Call History Busy Hour Calls (limit for an hour)		99,000						
3145	Logged-in Agent-Split/Skill Pairs <sup>84</sup>		100,000						
3150	Splits/Skills per ACD		2,000						
3155	Skills over 8 ACDs		16,000						
3160	Login/Logout Records		999,999						
3165	Measured + Unmeasured Trunks <sup>84.1</sup>		40,000						
3170	Measured Trunk Groups		8,000						
3175	Locations / Location IDs		250						
3180	Simultaneous active client sessions <sup>86</sup>		400						

**NOTE:**

- 1. The Release 3 (3.0 and 3.1) Capacities Table contains the Communication Manager Offer limits. This footnote provides explanations for some of the contents in the capacities table, and for some of the major offer limits.**
- 2. For information regarding End-of-Sale of platforms such as G3R and G3SI, see the Introduction and the NOTES in the beginning of the capacities table.**
- 3. Special Applications based Capacity differences are highlighted in green.**
- 4. Release 3.0.1 and 3.1 capacity changes are identified as such in these footnotes.**

**Footnote** *Detailed Description*  
**Number:**

\* *Capacity limit cannot be achieved due to Hardware or Processor capacity limits for this platform.*

**Note:** *IP-Connect in these footnotes refers to S8700, S8710, S8720, and S8500 Media Servers with G600/G700/G350/G250 Media Gateways; Multi-Connect refers to a configuration consisting of S8700, S8710 or the S8500 Media Server with G700/G350/G250/G650/MCC1/SCC1 Media Gateways.*

**Note:** *On Server Platforms:*

- S8400 is a NEW platform introduced in 3.1 (Capacities similar to the G3CSI with some differences).*
- S8720 is a NEW platform introduced in 3.1 (same capacities as S8700 and S8710).*
- Discontinued Platforms:*
  - The S8100 is NOT sported with Communication Manager 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.

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- 4.3 Although the system supports 10 QSIG hunt groups, the number of messaging adjuncts depends on the PRI signaling groups on the system.
- 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 Communication Manager 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

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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.

- 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.

It should also be noted that in its initial release the TN8400 can only support the port network in which it resides. It will not support any EPNs and therefore the CMC, G600 and G650 quantities listed for the S8400 under EPNs are listed as NA.

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:

MAX (MAX\_STATION, MAX\_VDN) + TEGs + PHANTOM\_ACA + DATA\_ENDPOINTS + FIXED\_TSCs + HNT\_GRP =



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- 28.6 This capacity will only be supported with ucd-mia or ead-mia hunt group types otherwise the capacity is 1,500 agents in a skill.
- 29 Last Number Dialed Entries = Stations + Digital Data Endpoints + Attendant Consoles
- 31 Intuity supports 20 DCS nodes.
- 32 These numbers are node number addresses.
- 33 On Larger systems, Coverage answer Groups are 1/4<sup>th</sup> 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 Media Gateways/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

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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 Communication Manager software (S8700/S8710, S8500/S8500B, S8300) support **max 250 BRI trunk boards**. This includes TN2185, TN556 (suffix C and later), MM722 and MM720 that 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 Media Gateways), and the max BRI boards is based on the types of Media Gateway and how many Media Modules (MM) they can support.

- G700 Media Gateways support max 4 MMs each. IF only G700 Media Gateways are used: S8300/G700 can have max 199 BRI trunk boards - i.e., (50 Media Gateways \* 4 per Media Gateway) -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 Media Gateways 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 Media Gateways 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 Media Gateways 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.

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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 data module. 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" 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.

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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 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 respective server Offer Definitions 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

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

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

**Release 2.1: NOTE Re. Blade Server: See Footnote 113.**

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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.

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 G.711 with or without Encryption.

71.1

**S8300/G700 (ICC):** The S8300 w/G700 has an inherent 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 Media Gateway 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).

<b>S8300/G700</b>	<b>Release 1.3</b>	<b>Release 2.0</b>	<b>Release 2.1 and Beyond</b>
Media Gateways	50 G700 Media Gateways	50 G350 / G700 Media Gateways	50 G350/G700 Media Gateways
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/G700 Media Gateway.

<b>VOIP Capacity of a Single Media Gateway (MG) with and without Internal Call Controller</b>						
Description	<b>VOIP Engine and Call Capacities</b> 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 **S8700, S8710 and S8720 Platforms (IP Connect / MultiConnect)**

**(NOTE: S8720 is a new platform introduced in Release 3.1)**

**Highlights of Capacities for IP Connect and MultiConnect are provided below.**

1. 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 Media Gateways.

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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 Media Gateways, 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:** Maximum number of SIP trunks is 2000.
  - c. **In Release 3.1: Maximum number of SIP trunks is 5000.**
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 Communication Manager 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 Communication Manager. 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 Media Gateways. However the G650 Media Gateway 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 (IA770) 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 IA770 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 Communication Manager 2.1 - Communication Manager 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

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since you can only stack 8 G700 chassis together via the Cajun Octaplane cabling.

- 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).
- 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, S8720, S8710 platforms (and H.248 Media Gateways) do not support the TN750C announcement board. Customers must upgrade to the VAL (Voice Announcement on LAN) board, and/or use the Embedded vVAL 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. Communication Manager 3.0/3.1 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/R13.1 Expanded Aux Load Line** (supports up to 100 Aux Reason Codes)

- o Only supported on the Sun Blade 150, Sun Fire V880 and V890 platforms (not supported with Sun Blade 100).
- o Only a minimum of 30 minute intervals will be supported.
- o 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
40,000	26
34,000	31

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30,000	35
23,500	45
20,000	52
10,000	62

Note: Up to 62 days of interval data can be stored with the CMS R13 standard load line (but the default is 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 Communication Manager platform can be assigned as externally measured by CMS.

84.2 **R13.1 CMS Orderable Models**

<b>SB150 1GB</b>	<b>V890 2CPUs</b>	<b>V890 4CPUs</b>	<b>v890 6CPUs</b>	<b>V890 8CPUs</b>
45,000 or 35,000 BHCC	200,000 BHCC	250,000 BHCC	250,000 BHCC	300,000 BHCC
60 or 80 Concurrent Supervisors	200 Concurrent Supervisors	250 Concurrent Supervisors	300 Concurrent Supervisors	400 Concurrent Supervisors
2 - 3rd party software elements	5 - 3rd party software elements	5 - 3rd party software elements	7 - 3rd party software elements	7 - 3rd party elements AND realtime streaming
50,000 Agent Skill pairs	100,000 Agent Skill pairs	100,000 Agent Skill pairs	100,000 Agent Skill pairs	100,000 Agent Skill pairs
5 reports per Supv session	7 reports per Supv session	8 reports per Supv session	8 reports per Supv session	10 reports per Supv. Session
4 report elements	5 report elements	7 report elements	8 report elements	12 report elements
100 active agent traces	300 active agent traces	400 active agent traces	400 active agent traces	400 active agent traces
30 sec. aver. Refresh rate 10% at 3 sec.	30 sec. aver. Refresh rate 20% at 3 sec.	30 sec. aver. Refresh rate 30% at 3 sec.	30 sec. aver. Refresh rate 50% at 3 sec.	100% at 3 sec. aver. Refresh rate

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 connectivity.

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 and vVAL Media Gateway sources, announcements are recorded as Microsoft 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 source 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 vVAL 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).

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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 Media Gateways, 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 Media Gateway 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.

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.

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- 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, S8720 IP-connect currently shares the same maximum as do 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.** Extension to Cellular 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.  
→ 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 Linux platforms 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 vVAL announcement source can store up to 20 minutes of recording; the G250/G350 vVAL 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):

## Avaya Communication Manager/CMS Release 3.0 and 3.1 System Capacities - Footnotes

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.

113 (Removed).

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 Media Gateway capacity limit, also 250. So essentially a system can be configured with:

- 64 PNs
- 250 H.248 Media Gateways (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. It's stations are managed as H323 type of stations (which do count as IP stations). It's trunks are managed as IP trunks. But Communication Manager 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. Communication Manager 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 Communication Manager 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.

Avaya Communication Manager/CMS Release 3.0 and 3.1  
System Capacities - Footnotes

- 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.
  4. So the general guideline for calculating simultaneous video calls is: Total Multimedia endpoints (total stations / 3) / 2 (assuming each video call involves 2 endpoints).  
For example, on S8300 it is 75 (450 / 3 / 2).
- 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 limit (which is 500) to 2,000.
- 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 reliable SIP communications network supporting telephony, instant messaging, conferencing, and collaboration solutions. The SES supports:
- a. 1 Edge SES per administrative domain; and
  - b. Up to 20 Home SESs per administrative domain served by the Edge SES.
- 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:**
1. **Station User Maximum:** Although the station user maximum on the S87xx platforms on Communication Manager is 36,000, that does not imply that a Communication Manager can be administered with 36,000 OPTIM\_OPS stations for SES. **This limit is still the IP stations maximum on the various Communication Manager platforms.**
  2. **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 Communication Manager for some of the platforms. Such a configuration would require multiple CMs per SES. Also, a Communication Manager can be connected to multiple SES Homes (for the larger Communication Manager platforms that support large Branch Office scenarios).
  3. **TLS Links on Communication Manager and SES Homes:** In Release 3.0 and 3.1, since the Communication Manager can support maximum 16 TLS links for SIP, theoretically there can be maximum 16 SES Homes per CM. But the actual number is smaller if these Homes are duplicated servers. The 3.1 maximum is 7 duplicated Homes per CM.

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- 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.