DEFINITY® Communications System
Generic 1 and Generic 3i

Implementation Addendum

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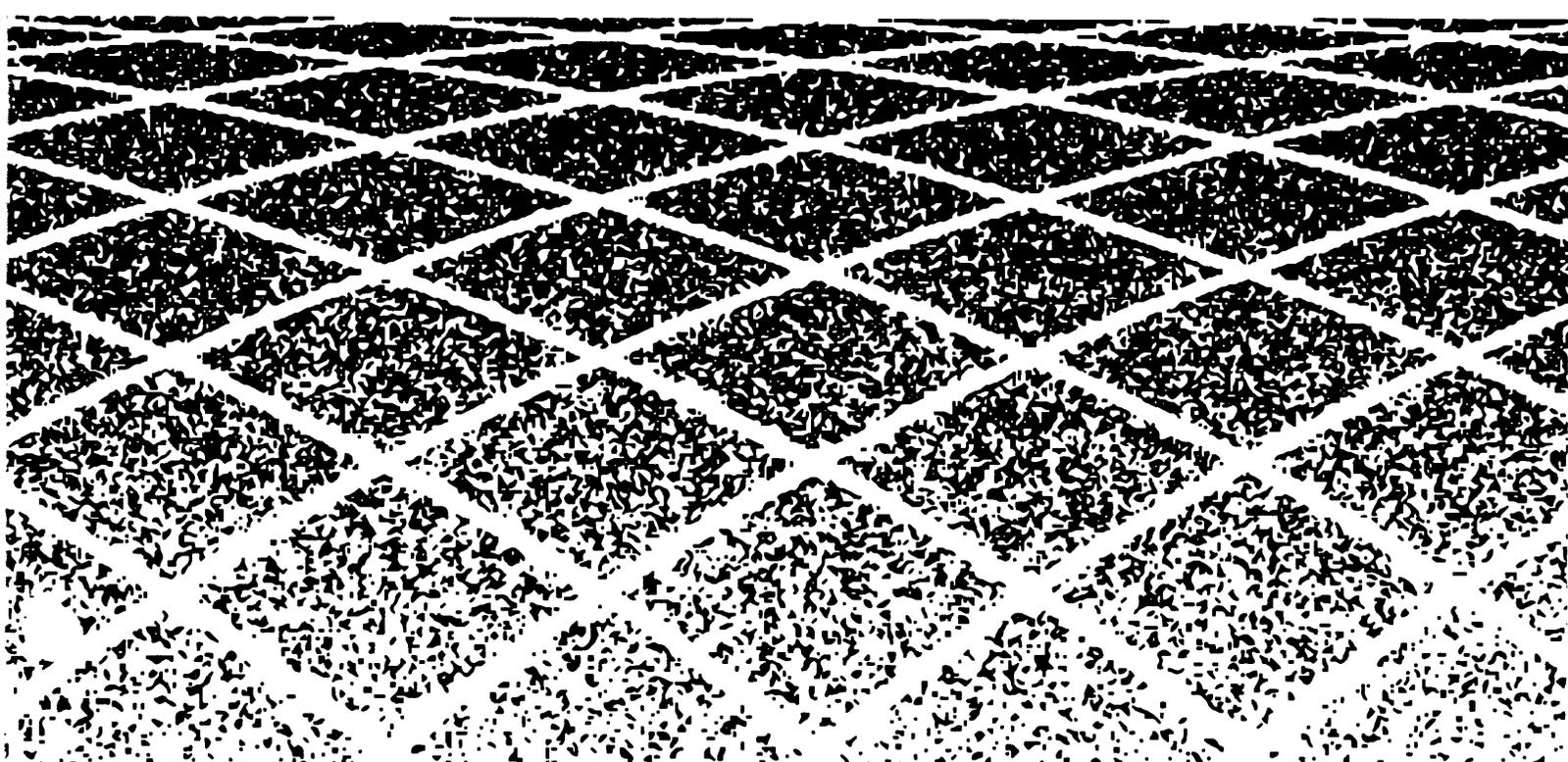
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INTRODUCTION

Overview

This addendum provides information specific to the DEFINITY® Communications System Generic 3s (G3s) switch release. Its f unction is as a supplement to, and is intended to be used in conjunction with, the information already provided in *DEFINITY Communications System Generic 1 and Generic 3i Implementation,* 555-230-650, Issue 1.

DEFINITY Generic 3s is available in two distinct packages:

- Advantage Business Package (ABP)
- Premier Business Package (PBP)

This addendum lists those features, available in Generic 1 and Generic 3i, that are not supported by the Generic 3s release. In addition, features that maybe optionally implemented on a Generic 3s system will be discussed.

In many cases, the only difference between a Generic 3i and Generic 3s feature implementation is the maximum system capacity available for that feature. When using the *DEFINITY Communications System Generic 1 and Generic 3i Implementation* manual to implement the G3s System, refer to the "System Capacities" section of this addendum.

For additional information on DEFINITY Generic 3s, refer to *DEFINITY Generic 3s Feature Description,* 555-230-201ADD2, and *DEFINITY Communications System Genetic 3s System Description,* 555-230-200ADD.

Organization

> **Note:** In the interest of brevity, only G3s specific information is provided in this addendum. Refer to the appropriate section in *DEFINITY Communications System Generic 1 and Genetic 3i Implementation,* 555-230-650, Issue 1, when implementing features on the G3s System.

The other chapters of this addendum areas follows:

DEFINITY Generic 3s Capabilities — An overview of the capabilities and features of the G3s BBP and ABP packages.

System Capacities — A table that lists maximum feature capacities for Definity Generic 1.1, Generic 3i, Generic 3s ABP and Generic 3s PBP.

DEFINITY Generic 3s Capabilities

Overview

This chapter outlines the capabilities of the G3s Advantage Business Package (ABP) and G3s Premier Business Package (PBP) in relation to the G3i system.

Advantage Business Package

The DEFINITY Generic 3s Advantage Business Package (ABP) is a derivative of the DEFINITY Generic 3i System providing support for up to 200 total stations and 50 trunks.

With the exception of the features listed below, all standard features that are available with G3i are also supported by G3s ABP, however, the capacity limits for some features are reduced from the G3i levels. Refer to Chapter 2, "System Capacities" for a complete listing of all capacity limits.

- Features not available with G3s ABP:

   Note: Features that are optional to G3i (CallVisor™ ASAI and Centralized Attendant Service, for example) are not supported in the G3s ABP.

   — Administered Connections

   — Common Control Duplication Option

   — Expansion Port Network (EPN) Support

   — Multi Carrier Cabinet (MCC) support

   Note: G3s supports only the Enhanced Control Cabinet. When conducting the System survey, refer to Table 1-A for the number of port slots available in G3s.

TABLE 1-A. Single-Carrier Cabinets

CABINET CONFIGURATIONS	NUMBER CABINETS	PORT CIRCUIT PACK SLOTS*
G3s	1	16
PPN	2	34
Without	3	52
Duplication	4	70

* Number represents all universal port slots in cabinet (that is, does not exclude slots associated with Tone Clocks, and so on).

In addition to the standard features provided with G3s ABP, there are several optional feature packages that may be purchased to enhance the capabilities of the ABP System. The following option packages may be selected individually or in any combination:

Note: Except where noted, the features that make up the various option packages are not available separately.

● **Authorization Codes Option**

Adds the Authorization Codes feature to G3s ABP.

Note: The Automatic Route Selection (ARS) Option must be purchased before Authorization Codes can be implemented on G3s ABP.

● **Automatic Route Selection (ARS) Option**

Adds Automatic Route Selection to G3s ABP.

Note: This option must be purchased to activate the Authorization Codes Option.

● **Basic Call Center Option**

The Basic Call Center Option consists of the features listed below.

– Automatic Call Distribution (ACD)

– Basic Call Management System (BCMS)

– System Measurement and Traffic Reports (also available separately)

Note: If the System Measurement and Traffic Reports feature is not purchased (either separately, as shown below, or as part of the Basic Call Center Option), the Security Violations Measurement Report is still available on the System.

● **System Measurement and Traffic Reports Option**

Adds the ability to generate System Measurement and Traffic Reports on G3s ABP.

Note: If the System Measurement and Traffic Reports Option is not purchased, the Security Violations Measurement Report is still available on the System.

● **Voice Mail Application Support Option**

The Voice Mail Application Support Option consists of the features listed below.

– Leave Word Calling (LWC)

– Linked Call Coverage Paths

Note: The Voice Mail Application Support Option is activated when an AT&T voice processing adjunct is purchased.

Premier Business Package

The DEFINITY Generic 3s Premier Business Package (PBP) supports all features that are available with the Advantage Business Package. In addition, features that are optional to G3i (CallVisor ASAI, and Centralized Attendant Service, for example) are also optionally available in the G3s PBP, however, the capacity limits for some features are reduced from the G3i levels. Refer to Chapter 2, "System Capacities" for a complete listing of all capacity limits.

Certain features are not supported by G3s PBP, these features are listed below.

- Features not available with G3s PBP:

    — Common Control Duplication Option

    — Expansion Port Network (EPN) support

    — Multi Carrier Cabinet (MCC) support

    Note: G3s supports only the Enhanced Control Cabinet. When conducting the System survey, refer to Table 1-A for the number of port slots available in G3s.

SYSTEM CAPACITIES

Overview

This section provides a table that compares the maximum system capacities for the following DEFINITY Communications System configurations:

- G1.1

- G3s Advantage Business Package (ABP)

- G3s Premier Business Package (PBP)

- G3i

Note: Not all maximum capacities listed in the following table can be reached simultaneously with all versions or all configurations of the System.

Maximum Capacities

TABLE 2-A. Maximum System Parameters for Hardware and Software Items

Item	G1.1	G3s ABP	G3s PBP	G3i
Abbreviated Dialing (AD)				
AD Lists Per System	1,600	200	200	1,600
AD List Entry Size	24	24	24	24
AD Entries Per System	8,000	1.000	1,000	10,000
Enhanced List (System List)	1	NA	1	1
Maximum entries	1,000	NA	1,000	1,000
Group Lists	100	100	100	100
Maximum entries	90	90	90	90
Group lists/extension	3	3	3	3
System List	1	1	1	1
Maximum entries	90	90	90	90
Personal Lists	1,600	200	200	1,600
Maximum entries	10	10	10	10
Personal lists/extension	3	3	3	3
Applications Adjuncts				
CallVisor ASAI Adjuncts	NA	NA	4	8
Asynchronous Links (EIA 232C)	5	5	5	5
SMDR Output Devices	2	2	2	2
Journal/System Printer	2/1	2/1	2/1	2/1
Property Management Systems	1	1	1	1
BX.25 Physical Links	8	4	4	8
Application Processors (that is, 3B2-MCS)	1	1	1	1
AUDIX ™Adjuncts	1	1	1	1
CMS Adjuncts	1	1	1	1
ICM Adjuncts				
ISDN Gateway	1	NA	1	1
BX.25 Processor Channels	64	64	64	64
Hop Channels	64	64	64	64

TABLE 2-A *(continued).*
Maximum System Parameters for Hardware and Software Items

Item	G1.1	G3s		G3i
		ABP	PEP	
Attendant Service				
Attendant Consoles (day/night)	6/1	6/1	6/1	6/1
Attendant Console 100s Groups/Attendant	20	20	20	20
Attendant Control Restriction Groups	64	64	64	64
Centralized Attendant Service				
Release Link Trunks at Branch	99	NA	99	99
Release Link Trunk Groups at Branch	1	NA	1	1
Release Link Trunks at Main	400	NA	100	400
Release Link Trunk Groups at Main [1]	99	NA	32	99
Other Access Queues				
Maximum Number of Queues	1	1	1	1
Maximum Number of Queue Slots [2]	50	30	30	50
Queue Length	30	30	30	30
Switched Loops/Console	6	6	6	6
ARS/AAR				
AAR Patterns	254	NA	40	254
ARS Patterns	254	20	40	254
ARS/AAR Table Entries (NPA, NXX, RXX, HNPA, FNPA)	NA	2,000	2,000	2,000
Choices per RHNPA Table	12	12	12	12
Digit Conversion Entries	180	300	300	300
DigIts Deleted ARS/AAR	11	18	18	18
Digits Inserted for ARS/AAR	36	36	36	36
Entries in HNPA & RHNPA Tables	800	1,000	1,000	1,000
FRLs	8	8	8	8
Inserted Digit Strings [3]	NA	450	450	1,200
Patterns for Measurement				
Shared Patterns for Measurement	20	20	20	20
RHNPA Tables	32	32	32	32
Routing Plans	8	8	8	8
Toll Tables	4	32	32	32
Entries per Toll Table	800	800	800	800
Trunk Groups in an ARS/AAR pattern	6	6	6	6
UDP (Entries)	240	NA	240	240
TOD Charts	8	8	8	8

1. The number of release link trunk groups at Main is the same as the number of trunk groups in the system.

2. "Maximum number of queue slots" is referred to as "emergency access queue length" in G3i.

3. This is the number of available 12-character inserted-digit-strings available for AAR/ARS preferences.

TABLE 2-A *(continued).*
Maximum System Parameters for Hardware and Software Items

Item	G1.1	G3s ABP	G3s PBP	G3i
CallVisor ASAI				
Active Controlling Associations	NA	NA	250	2,000
Call Controllers per Call	NA	NA	1	1
Call Monitors per Call	NA	NA	14	14
Extension Controllers per Station Domain	NA	NA	2	2
Maximum Simultaneous Call Classifiers	NA	NA	40	40
Number of ASAI Links	NA	NA	4	8
Notification Requests	NA	NA	50	170
Simultaneous Active Adjunct Controlled Calls	NA	NA	75	300
Switch to Adjunct Associations	NA	NA	127	127
Authorization				
Authorization Codes	5,000	1,500	1,500	5,000
Classes of Restriction	64	64	64	64
Classes of Service	16	16	16	16
Length Authorization Code	4-7	4-7	4-7	4-7
Length of Barrier Code	4-7	4-7	4-7	4-7
Length Forced Entry Account Codes	1-15	NA	1-15	1-15
Restricted Call List	NA	1	1	1
Remote Access Barrier Codes	10	10	10	10
SMDR Forced Entry Account Code List	1	NA	1	1
Toll Call List	NA	1	1	1
Unrestricted/Allowed Call Lists	1	10	10	10
Total Call List Entries	10	1,000	1,000	1,000
Automatic Callback Calls	160	20	20	160
Automatic Wakeup				
Simultaneous Display Requests	10	10	10	10
Wakeup Requests per system	1,600	200	200	1,600
Wakeup Request per Extension	1	1	1	1
Wakeup Requests per 15 min. Interval	200	150	150	300
Basic CMS				
Daily Summary Reports	7	7	7	7
Measured Agents	30	75	75	200
Measured Splits	30	12	24	99
Measured Trunk Groups	32	16	32	99
Measured VDNs	NA	NA	24	99
Reporting Periods (30 or 60 minutes)	25	25	25	25

TABLE 2-A *(continued).*
Maximum System Parameters for Hardware and Software Items

Item	G1.1	G3s		G3i
		ABP	**PBP**	
Call Appearance				
Bridged Images/Appearance	7	7	7	7
Call Appearances/Station [4]	54	54	54	54
Maximum Appearances per extention	10	10	10	10
Minimum Appearances per extention	2	2	2	2
Total Bridged Appearances	1,600	200	200	1,600
Maximum Simultaneous Off-Hook per Call [5]	5	5	5	5
Cabinets				
EPN				
MCC	1	NA	NA	2
SCC	4	NA	NA	8
small (Upgrades only) [6]	1	NA	NA	2
Inter-port Network Connectivity				
Port Networks	2	1	1	3
Maximum Number of Port Networks/Cabinet	1	1	1	1
PPN MCC [7]	1	NA	NA	1
SCC/Enhanced Control Cabinet	4	4	4	4
Remote Port Network	1	NA	NA	2
Call Coverage				
Coverage Answer Groups (CAGs)	200	30	30	200
Coverage Paths	600	150	150	600
With Hospitality Parameter Reduction	5	NA	5	5
Coverage Paths Included in Call Coverage Report	NA	100	100	100
Coverage Path per Station	4	4	4	4
Coverage Points in a Path	3	3	3	3
Maximum Users/Coverage Path [8]	2,900	500	500	2,900
Members per CAG	8	8	8	8

4. The number of call appearances is the sum of the primary and bridged appearances; at most 10 can be primary.

5. Dose not apply to conferencing.

6. Small systems refer to the 2-carrier cabinet systems that are no longer sold to new customers.

7. MCC includes Medium Cabinet.

8. Maximum number of users per coverage path equals the number of dial plan extensions (which includes hunt groups, TEGs, and so on).

TABLE 2-A *(continued).*
Maximum System Parameters for Hardware and Software Items

Item	G1.1	G3s		G3i
		ABP	PBP	
Call Datail Recording				
CDRU Trackable Extensions	1,600	200	200	1,600
Intra-Switch Call Trackable Extensions	NA	100	100	100
Number of CDRUs/System [9]	1	1	1	1
Call Forwarding (Follow-me)				
Call Forwarded Digits (off-net)	16	16	16	16
Call Forwarded Numbers	1,600	200	200	1,600
Call Park				
Attendant Group Common Shared Extension Numbers	10	10	10	10
Number of Parked Calls	462	160	180	723
Call Pickup Groups				
Call Pickup Members/Group	50	50	50	50
Call Pickup Members/System	1,600	200	200	1,600
Number of Groups	800	100	100	800
With Hospitality Parameter Reduction	5	NA	5	5
Call VectorIng/Call Prompting				
Multiple Splits for Agent Logins	NA	NA	3	3
Priority Levels	NA	NA	4	4
Recorded Announcement	128	NA	128	128
Steps per Vector	NA	NA	15	15
Vector Directory Numbers	NA	NA	100	500
Vectors per System	NA	NA	48	256
Conference Parties	6	6	6	6
Simultaneous 3-way Conference Calls [10]	322	161	161	483
Simultaneous 6-way Conference Calls [11]	160	80	80	240
Data Parameters				
Administration Connections	NA	NA	24	128
Permanent Switched Call	18	NA	NA	NA
Alphanumeric Dialing				
Maximum Entries	NA	50	50	200
Characters/Entry	NA	22	22	22
Digital Data Endpoints	800	75	75	800

9. The CDRU adjunct capacity is 40,000 calls/hour, and it exceeds the system call capacity for all listed systems.

10. Simultaneous 3-way Conference Call_(483 / 3)* number PNs.

11. Simultaneous 6-way Conference Call_(463 / 6)* number PNs.

TABLE 2-A *(continued).*
Maximum System Parameters for Hardware and Software items

Item	G1.1	G3s		G3i
		ABP	PBP	
Dial Plan				
DID LDNs	8	8	8	8
Extensions [12]	2,500	500	500	2,900
Extension Number Portability[13]	240	NA	240	240
Feature Dial Access Codes				
Number of Access Codes	70	70	70	70
Number of Digits	1-3	1-3	1-3	1-3
Integrated Directory Entries	1,600	200	200	1,600
Maximum Extension Size	5	5	5	5
Minimum Extension Size	1	1	1	1
Miscellaneous Extensions [14]	900	150	150	900
Names				
Number of names [15]	3,406	448	464	3,406
Number of characters in a name	15	15	15	15
Non-DID LDNs	50	50	50	50
Prefix Extensions	Yes	Yes	Yes	Yes
Trunk Dial Access Codes				
Number of Access Codes	197	105	105	197
Number of digits	1-3	1-3	1-3	1-3
Do Not Disturb (DND)				
DND Requests per System	1,600	200	200	1,600
Simultaneous Display Requests	10	10	10	10
Facility Busy Indicators				
Buttons per Tracked Resource	100	100	100	100
Number of Indicators (Station & Trunk Groups)	2,400	450	450	2,400
Hunt Groups or Splits				
Announcements per Group	2	2	2	2
Announcements per System	64	128	128	128
Groups and/or Splits	99	12	24	99
With Hospitality Parameter Reduction	5	NA	5	5
Group Members per Group/Split	200	150	150	200
Group Members per System	500	150	150	500
Measured ACD Agents (Switch Limits)				
Agents Logged in per System	400	75	75	400
Logged-In Splits per Agent	3	3	3	3
ACD Supervisor Assist Per System [16]	99	12	24	99
Queue Slots per Group	200	200	200	200
Queue Slots per System	1,000	200	200	1,000

12. Extensions Include stations, data endpoints, hunt groups, announcements, TEGs, VDNs, common shared extensions and code calling Ids.

13. The numbers shown in "Extension Number Portability" are Uniform Dialing Plan (UDP) entries.

14. Used for PCOL groups, common shared extensions, access endpoints, administered TSCs, code callng ids, VDNs, LDNs, hunt groups, announcements, and TEG's.

15. Number of Names_number of stations + attendant consoles + trunk groups + digital data endpoints + miscellaneous extensions.

16. One supervisor assist per split.

TABLE 2-A *(continued).*
Maximum System Parameters for Hardware and Software Items

Item	G1.1	G3s ABP	G3s PBP	G3i
Intercom Translation Table (ICOM)				
Automatic/Manual and Dial				
ICOM groups per system	32	10	10	32
Auto/Manual	32	16	16	32
Dial	32	16	16	32
Members per ICOM group				
Auto	32	32	32	32
Dial	32	32	32	32
Members per System	1,024	320	320	1,024
MLDN				
Via DID	8	8	8	8
Via CO	50	50	50	50
Last Number Dialed				
Entries/System [17]	2,400	275	275	2,400
Number of Digits	16	16	16	16
Leave Word Calling (Switch=Based)				
Messages Stored [18]	2,000	450	450	2,000
Messages per User	10	10	10	10
Remote Message Waiting indicators				
Per Extension	80	80	80	80
Per System	8o	80	80	80
Simultaneous Message Retrievers	60	60	60	60
Systern-wide Message Retrievers	10	10	10	10
Modem Pool Groups				
Mods 2/Analog				
Group members per system	160	64	64	160
Number of groups	5	2	2	5
Members per group	32	32	32	32
Networking				
CAS Nodes	99	NA	99	99
DCS Nodes				
BX.25 (Traditional)	20	NA	20	20
ISDN PRI	NA	NA	63	63
Hybrid (Integrated)	NA	NA	20	20
UDP Nodes	240	NA	240	240
Personal CO Lines (PCOL)				
PCOL Appearances	4	4	4	4
PCOL Lines (Trunk Groups)	40	15	15	40
PCOL Trunks Per Trunk Group	1	1	1	1

17. Last Number Dialed Entries_Stations+ Digital Data Endpoints.

18. Leave Word Calling is available in the G3s ABP only if the AT&T Voice Mail Application Support Option is purchased.

TABLE 2-A *(continued).*
Maximum System Parameters for Hardware and Software Items

Item	G1.1	G3s		G3i
		ABP	**PEP**	
Paging				
Code Calling IDs	125	125	125	125
Loudspeaker Zones	9	9	9	9
Port Circuit Pack Slots [19]				
Per EPN				
MCC Simplex	99	NA	NA	99
MCC Duplex	98	NA	NA	98
SCC Simplex	71	NA	NA	71
SCC Duplex	70	NA	NA	70
Small Cabinet Simplex (Upgrade only)	39	NA	NA	39
Small Cabinet Duplex (Upgrades only)	38	NA	NA	38
Per PPN				
MCC Simplex	89	NA	NA	89
MCC Duplex	78	NA	NA	78
SCC Simplex	64	NA	NA	64
SCC Duplex	56	NA	NA	56
Enhanced Control Cabinet Simplex	NA	70	70	NA
Recorded Announcements				
Analog Queue Slots per Announcement	150	50	50	150
Analog Queue Slots per System	150	50	50	150
Calls connected per Announcement				
Integrated Announcement or Aux. Trunk (G3r)	5	5	5	5
Analog Trunk	5	5	5	5
Channels per Integrated Announcement Circuit Pack	16	16	16	16
Integrated Announcement Circuit Pack	1	1	1	1
Integrated Announcement Recording Time (Min:Sec)				
16 kB recording	NA	8:32	8:32	8:32
32 kB recording	4:16	4:16	4:16	4:16
Integrated Queue Slots per System	50	50	50	50
Recorded Announcements	64	128	128	128
System Administration				
Admin History File Entries	NA	50	50	250
Simultaneous Administration Command	1	1	1	1
Simultaneous Maintenance Command	1	1	1	1
Simultaneous SM Sessions	5	3	3	5
Printer Queue Size	50	50	50	50

19. Only port slots are included in this count. For example, there are 100 port slots per MCC EPN cabinet of which one is dedicated for the Tone/Clock circuit pack. There may be other service circuits required which would further reduce the number of port slots available. In G3 carriers, a 21st slot may be equipped with service boards that do not require tip & ring connections.

TABLE 2-A *(continued).*
Maximum System Parameters for Hardware and Software Items

Item	G1.1	G3s		G3i
		ABP	PBP	
Speech Synthesis Circuit Packs	6	6	6	6
Channels per Speech Circuilt Pack	4	4	4	4
Terminating Extension Groups (TEGs)				
TEGs	32	32	32	32
Users That May Share a TEG	4	4	4	4
Time Slots				
Simultaneous Circuit Switched Calls	482	180	180	723
Total Slots [20]	1,024	512	512	1,536
Time Slots for Voice & Data [21]	966	483	483	1,449
Time Slots per Port Network	512	512	512	512
Tone Classifiers				
Call Classifier Circuit Packs	NA	NA	10	10
Call Progress/Touch ToneReceivers	NA	NA	80	80
Tone Detector Circuit Packs	20	20	20	20
General Purpose Tone Detectors	40	40	40	40
Touch-Tone Receivers	80	80	80	80
TTR Queue Size	4	4	4	4
Trunks				
DS1 Circuit Packs	30	8	8	30
Queue Slots for Trunks	198	32	64	198
PRI Interfaces via PI [22]	8	NA	4	8
PRI Temporary Signalling Connections				
TSCs in System	NA	NA	164	656
Call Associated TSCs	NA	NA	100	400
Non Call Associated TSCs	NA	NA	64	256
Administered TSCs	NA	NA	32	128
Ringback Queue Slots	120	120	120	120
Total PRI Interfaces [23]	8	NA	4	8
Trunk Groups in the System	99	16	32	99
Trunk Members in a Trunk Group	99	50	99	99
Trunk in System (Incl. Remote Access)	400	50	100	400
With Hospitality Parameter Reduction	50	NA	50	50

20. 512 time slots per port network

21. 483 time slots for voice & data per port network.

22. Only 1 PI circuit pack is supported in the G3s configuration (Enhanced Control Cabinet), and therefore a total of 4 physical links (used for BX.25 or PRI) is available.

23. In the G3i configuration, 2PI circuit packs can be supported in the MCC, and therefore a total of 8 physical links (used for BX.25 or PRI) are available. Since the SCC and Enhanced Control Cabinet can only support 1 Pi circuit pack, a total of 4 physical links (used for BX.25 or PI) is available in the SCC G3i and G3s configurations.

TABLE 2-A *(continued).*
Maximum System Parameters for Hardware and Software Items

Item	G1.1	G3s		G3i
		ABP	PBP	
Voice Terminals				
Associated Data Modules (for example, DTDMs)	800	75	75	800
BRI Stations [24]	NA	50	50	1,000
Digital Stations [25]	712	200	200	1,600
Display Stations	500	200	200	1,600
Stations [26]	1,600	200	200	1,600
Station Button Capacity (K Units)[27]	NA	102.6	102.6	547.2

24. All BRI stations can be display stations.

25. All digital stations can be 7406D stations with display.

26. Including extensions administered without associated hardware.

27. "Station Button Capacity (K units)" replaces "Maximum Button Modules" (from pre-G3i).
    The following examples show how these units can be used. the assumption is that only 3 call appearances are assigned to the sets (except analog sets which have no call appearances).

    - Anlog sets (for example 7104A): G3s, G3i = 62 units

    - Digital sets with 10 buttons (for example 7403D): G3s, G3i = 102 units

    - Digital sets with 34 buttons, without display (for example 7405D): G3s, G3i = 342 units

    - Digital sets with 34 buttons, with display (for example 7405D): G3s, G3i = 472 units

    - BRI sets with 17 buttons, with display (for example 7506D): G3s, G3i = 250 units

    The station button capacity can support all stations equipped as digital sets with 34 buttons, without display (for example 7405D), or all 7406D with display. For example, a total of (342x 1600) units = 547,200 units for G3i.

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