Avaya Communication Server 1000 Release 7.5
Product Bulletin
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Product Bulletin

Avaya Communications Server 1000 Release 7.5

Version 1.1

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INTRODUCTION

Avaya Communication Server 1000 Release 7.5 builds on the 7.0 release to bring to the market; Full Avaya Aura® Integration with Session Manager, Feature rich interworking with the Communication Manager, Unified management with System Manager and access to a broad spectrum of Avaya Aura® UC applications turning the promises of an evolution path to the future into today's reality.

Avaya Aura® is the core communications platform supporting Unified Communications and Contact Center solutions for midsize to large enterprises. It already extends the Avaya CM and enables SIP-based session management with innovative capabilities. With Avaya CS 1000 Release 7.5 it now also part of the Avaya Aura® solution it also extends the CS 1000 with the same revolutionary SIP architecture and virtualization technology. Because it is an extension rather than a replacement, it protects and future proofs highly valued investment. With this release our Customers and Channel Partners can take full advantage of, enabling faster and easier deployment of communications capabilities such as voice, video, messaging, and presence. As a result, productivity and business agility can be increased.

Since Avaya CS 1000 Release 7.5 builds on the 7.0 release our Customers and Partners continue to benefit from the ability to reduce the time/effort to manage multiple systems in large networks by allowing the merging of systems into a new CS 1000E HS (High Scalability). This allows scaling up to 150,000 Subscribers while allowing the retention of current user licenses by migrating them from existing systems to the new system. In addition release 7.5 enables:

- ✓ Cost effective upgrading of CS1000 to obtain new UC functionality, avoiding costly rip and replace alternatives.

- ✓ Leverages Avaya Conferencing, Presence and Contact Center applications, ACE and One X® clients in addition to the existing CS 1000 UC applications.

- ✓ UCM is integrated into System Manager, providing common, feature rich management tools with centralized deployment model.

- ✓ Session Manager brings strength in scalability, resiliency and IP Telephony features

    This is just a high level introduction to the benefits that can be realized through this upgrade release and its game changing adoption of the CS 1000 into the Avaya Aura® family. In addition Avaya needs to encourage our customers to be on current software ensuring proper support and providing themselves the ability to seed the installed base with SIP based clients and applications. The Avaya Communications Server 1000 Release 7.5 addresses the requests to reduce the total cost of ownership, to protect capital investment and to make the system easier to manage. With this release CS 1000 customers upgrade to Avaya's next generation core communications architecture, that represents a new approach to business communications and radically simplifies complex multi-vendor, multi-modal, multi-location networks and creates a truly unified architecture.

PRODUCT DESCRIPTION

The Avaya Communication Server 1000 Release 7.5 is a release of software for the Communication Server 1000.

Feature Descriptions

Avaya Aura® Session Manager 6.1

Avaya Aura® R6.1 is the flagship product collection for next generation enterprise solutions based on the revolutionary SIP-based architecture. Avaya Aura® is enhanced by additional new capabilities of the core, Session Manager 6.1 and Communication Manager 6.0.1.

With this release the following new capabilities are introduced:

- Unprecedented total scale of up to 10 Session Managers and 100,000 SIP users supported in an enterprise
- Centralized core supported converged SIP voice and video call admission control
- Even more SIP features including "desk-level" SIP E911 location reporting
- CS 1000 SIP networking and feature transparency
- Legacy CS 1000 NRS replacement
- Enhanced Session Manager SIP routing adaptations
- Introducing System Manager "tab-based" SM and CM management with lightning quick screen switching
- System Manager Release 6.1 can also manage Session Manager 6.1, Session Manager 6.0, and the transition period where both releases co-exist during an upgrade.

Network Routing Service (NRS) Replacement

The NRS of the CS 1000 is replaced in Release 7.5 with Session Manager 6.1. The following are a summary of the changes.

1. Replacement of the SIP component in the NRS for CS 1000 SIP networking solutions.
- The generic SIP adaptation module (DigitConversionAdaptor) has been enhanced to normalize CS 1000 SIP URIs to the Avaya Aura canonical format and vice versa.
- A new SIP adaptation module for CS 1000 SIP entities (CS1000Adapter) has been introduced to support the CS 1000 version of the source based routing.
- All "standard" Session Manager routing capabilities extend to CS 1000 solutions (secure signaling, alternate routing, time-of-day routing, tail end hop off and generally presents a richer routing feature set compared to the NRS.

2. The Network Connect Service (NCS) component of the NRS has been ported over to the SM platform and can be administered via System Manager. NCS is used in CS1000 SIP Geographic Redundancy, Branch Office and Virtual Office solutions for CS1000 IP clients.

3. Session Manager provides CS1000 users access to Avaya Aura applications be it Named or Sequenced. Sequenced applications are enabled via the Session Manager concept of application sequencing for implicit users in combination with CS1000 SIP trunking and the new feature called "Extended Local Calls" with Release 7.5.

4. Session Manager acts as a SIP interoperability facilitator among different SIP entities of a CS1000 SIP solution:

- The generic SIP adaptation module has been enhanced to simplify multi-part MIME bodies of CS1000 SIP messages (if administered to do so) processing of which often presents a problem to non-CS1000 SIP entities
- The new SIP adaptation module for CS1000 SIP entities is able to translate the History-Info header from the CS1000 syntax to the CM syntax and vice versa

5. Session Manager enables location and bandwidth-aware resource allocation done by the CS1000 Media Services Controller. A new SIP adaptation module for CS1000 SIP entities is able to provide location information of the remote party to CS1000 SIP entities via P-Location header in SIP requests and responses.

For more on the NRS to Session Manager migration procedure please navigate to the "Upgrade and Migration Considerations" section of this bulletin.

The solution offer definition for Avaya Aura® Release 6.1 can be found here:
http://portal.avaya.com/ptlWeb/products/P0001/JobAidsTools

NRS Replacement Exceptions

The following are scenarios where the NRS must be maintained with a CS 1000 Release 7.5 solution and not be replaced with Session Manager:

- H.323 Gatekeeper
- IPv6
- CS 1000 HS internal NRS
- During the migration period prior to all CS 1000 Gateways being re-pointed to Session Manager. Note: It is assumed this "migration period" could be a number of weeks to a maximum a number of months.

  Please see Upgrade and Migration Considerations for details on NRS to Session Manager migration details.

The following policy statement is in place for Session Manager being required to be deployed:

- Multisite CS 1000 with NRS(s) previously deployed
- Any form of SIP trunking in the core including SIP trunking for PSTN access
- With more than one Avaya Aura named or sequenced application (if a single application is deployed then only require a dedicated SIP Signaling Gateway to provide SIP trunking to the application)

CS 1000 Peer Interworking with Avaya Aura® Communication Manager via Avaya Aura® Session Manager

This feature provides a rich interworking between a CS 1000 system instance and a Communication Manager system instance when both are deployed in the same customer network. SIP peer interworking is also supported between CS 1000 system instances and of Avaya Aura® applications.

The following high level use cases are supported by this feature:
- CS 1000 to CS 1000 peering with full Meridian Customer Data Network (MCDN) feature transparency
- CS 1000 to Communication Manager(CM) peering with rich feature interworking
- CS 1000 users use Session Manager for centralized access to PSTN
- CS 1000 users use CM PRI for PSTN access (tail-end hop off)
- CM users use CS 1000 PRI for PSTN access (tail-end hop off)
- CS 1000 users use Avaya Aura® Messaging as a centralized messaging service
- CM users use CallPilot as a centralized messaging service
- CS 1000 users use Avaya Aura® Conferencing as a centralized conferencing service

In all cases SIP connections are established via Session Manager based SIP core.

When CM and CS 1000 are interconnected via Session Manager based SIP core the following features work across the CM and CS 1000 clients:
- Basic call – incoming and outgoing
- Hold and unhold
- Calling name and number display
- Called name and number display
- Connected name and number display including when redirected to coverage, call forwarding, call pickup, etc.
- Calling/Called/Connected party privacy
- Centralized messaging using the Avaya Aura® Messaging including MWI support
- Centralized meet-me conferencing using the Avaya Aura® Conferencing
- Call forward (all, no answer, busy)
- Consultative Transfer
- Ad-Hoc conferencing including users on CM or CS 1000 can initiate conferences or join conferences with parties on other CS 1000s or CMs

These features are expected to work for both SIP and non-SIP clients including CS 1000 SIP, UNIStim, digital and analog phones as well as CM SIP, H.323, DCP and analog phones.

Supported Software lineup as per the Compatibility Matrix:

- CS 1000 R7.5
- SM R6.1
- CM R6.0 & R6.0.1 – CM is supported in both roles, Evolution Server and Feature Server
- AAM R6.x, MM R5.x (post R7.5 GA activity)
- AAC R6.x, MX R5.x

Avaya Aura® System Manager and UCM Integration

For Communication Server 1000 Release 7.5, the management solution required is dependent on the components deployed in the network. The two management solutions are:

- Unified Communications Management (UCM)
- Avaya Aura®System Manager 6.1 (SMGR)

For Communication Server 1000 Release 7.5, Avaya Aura® System Manager 6.1 is required for managing systems with Session Manager or Presence Services. In networks that do not use Avaya Aura® Session Manager or Presence Services, you can continue to use UCM without migrating to SMGR for Communication Server 1000 Release 7.5.
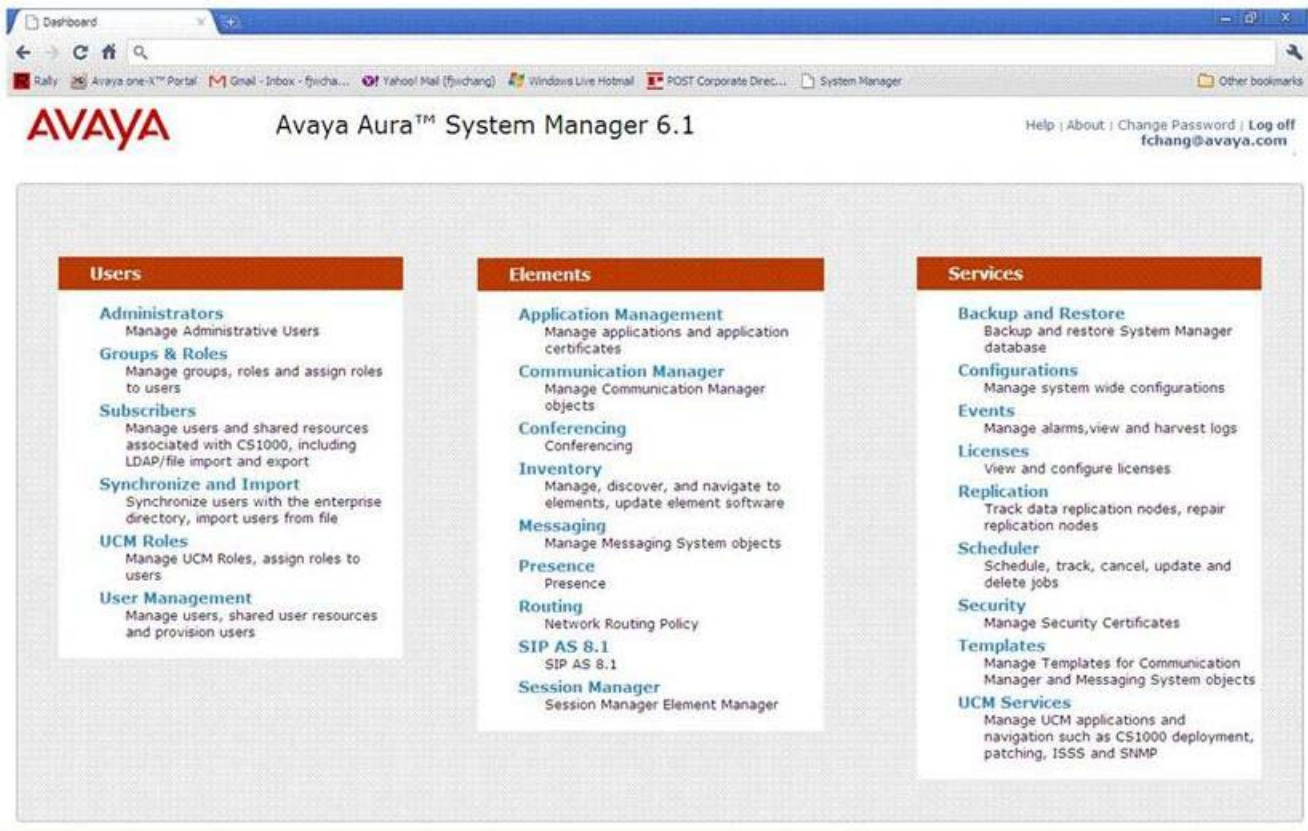
System Manager 6.1 - Common Landing Page (SMGR and UCM)

System Manager 6.1 begins the merger of System Manager (SMGR) and Unified Communications Management (UCM). The immediate benefits of this merger are:

- Single application running on a single server supporting applications that were previously centrally managed by System Manager and Unified Communications Management separately
- Single authentication (administrator name and password)
- Single navigation to SMGR and UCM capabilities (see screenshot of landing page below)

Note: Unlike UCM, System Manager 6.1 does not support a secondary server that provides trust management for its adopting products. Trust management is only provided through the single active System Manager.

Migration from UCM to System Manager 6.1

For the detailed steps regarding the migration from UCM to SMGR 6.1, please consult Appendix A (Migration to System Manager) in the Unified Communications Management Common Services Fundamentals NTP (NN43001-116). The appendix covers:

- Configuring UCM to appear on SMGR
- System elements migration task flow
- Registering CS 1000 Linux members to SMGR
- Registering VxWorks servers to SMGR
- Registering CS 1000 Primary security server and co-resident applications to SMGR
- Software deployment
- User management
- Manually redefining deployment distributions and server groupings

Corporate Directory, Numbering Groups and Unicode Name Directory

The Corporate Directory and Numbering Groups applications that deploy with the Subscriber Manager application in UCM (located under the CS 1000 Services section of the navigator) are not deployed in System Manager 6.1. This impacts the Corporate Directory feature on the supported phones, the Unicode Name Directory feature, as well as the ability to publish the E.164 telephone number to Subscriber Manager. We are currently working the issue with the intention of delivering the applications in System Manager 6.1 SP1 (Q12011).

Integration of CS 1000 IP Media Services with Avaya Aura®

CS 1000 release 7.5 introduces enhancements that enable the Session Manager along with the ® Media Server or MAS (Media Application Server) to provide Network Wide IP Soft Media Services. The
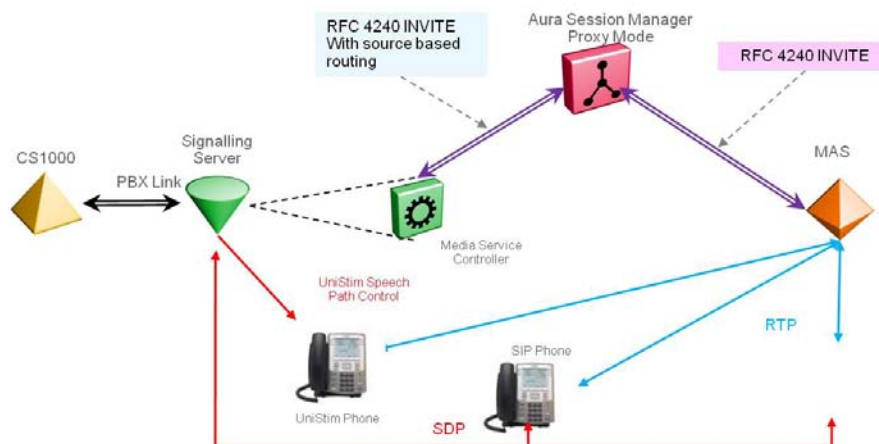
CS1000E solution can deliver media services, Ad-hoc conferences, Music, RAN and Tones, to IP endpoints without the use of TDM hardware or DSPs through the use of these soft IP based media services.

Release 7.5 also support media server clustering, from two to eight servers, which provides the benefit of increased scale and load balancing across multiple media servers in the same cluster. Licensing enhancements for media services that manage the dynamic allocation of the session licenses across multiple servers, including for redundancy, are introduced with CS 1000 release 7.5.

Key Benefits:
- No TDM Hardware and DSPs required to provide Tones, Ad-hoc conference, Music, and RAN services to IP endpoints.
- Scalable capacity that can be geographically distributed and provides localised services, thereby reducing network costs and reducing customer TCO.
- Seamless integration and migration within the portfolio and product ecosystem.
- Designed to replace today's TDM solutions (e.g. Media Gateway DSPs and MIRANs and other hardware).
- Co-existing alongside today's TDM solutions thereby delivering a TDM/IP based media service solution.
- The foundation and base that delivers an IP Attendant Console solution
- Support for RFC 4240 Media Services

Support for Avaya Aura® Conferencing

Avaya Communication Server 1000 Release 7.5 supports installed base Multimedia Conferencing 6.0 systems. Multimedia Conferencing is now End of Sales however and is no longer available to customers.

Avaya Communication Server Release 7.5 supports two options for audio and web conferencing to meet particular customer requirements – Conferencing 6.0 Standard Edition as well as Avaya Meeting Exchange 5.2 Enterprise Edition.

Avaya Aura® Conferencing 6.0 Standard Edition

Conferencing Standard Edition is a software based SIP conferencing application that operates on the standard System Platform S8800 server. It is a Linux based audio conferencing application using software media servers and is capable of expanding to up to 500 ports of audio (G.711 only) and Web Conferencing on a single virtualized server.

For any business, the ability for employees to collaborate anytime, anywhere is critical to achieving high productivity and cost-effectiveness. Conferencing 6.0 Standard Edition delivers the power of multimodal collaboration in a single server package that is flexible, easy to manage, and cost-effective.

As an in-house collaboration solution, Conferencing Standard Edition combines proven audio conferencing capabilities from Avaya with an array of market-leading enterprise collaboration tools and video—giving enterprise users an enhanced ability to launch and manage virtual conferences.

Conferencing Standard Edition allows enterprises to easily deploy on-premises audio-only, or a combination of audio and video enabled web conferencing across their entire enterprise—providing key capabilities in one cost-effective single server solution.

Conferencing Standard Edition helps improve productivity by delivering collaboration tools that are easy to access and use, while also helping maintain costs. Conferencing Standard Edition can eliminate the per-use or recurring fees associated with outside audio conferencing services, and can allow a return on investment (ROI) in as few as six months and save up to 50% or more in monthly conferencing costs compared with carrier services. And deploying Conferencing Standard Edition on the customer IP network results in a significant reduction in transport charges, by routing conference traffic over an IP network and can reduce location specific trunking requirements across the enterprise.

Conferencing Standard Edition is an open, standards-based SIP solution that can be easily integrated with an existing infrastructure. It works with Communication Manager, Communications Server 1000 as well as voice infrastructure (gateways, switches, etc.) from other SIP vendors, to further leverage existing investments.

Conferencing Standard Edition offers a broad feature set so you need only one solution for all of your collaboration needs:

- Hosting weekly team calls
- Delivering sales presentations
- Collaborating on documents and spreadsheets via Avaya Web Conferencing
- Holding training or distance learning sessions
- Conducting live product demonstrations
- Automatically convening calls on demand to handle critical decisions or emergencies as quickly as possible
- Streaming video to all Web conference participants

Conferencing Standard Edition's range of features includes:

- **Reservation-less conferencing:** Initiate reservation-less conferences at a moment's notice.
- **Scheduled conferencing**: Schedule conferences that reserve capacity on the bridge (including via Outlook or Notes).
- **Conference management:** Use the Web Portal application to maintain account profiles, schedule meetings, manage conference participants during a call, and record conference audio for future playback.
- **Value-added capabilities:** Maximize in-house conferencing with robust audio recording and playback, reporting and billing capability.

Conferencing Standard Edition can incorporate the following options to add even more value to conferencing:

- **Web conferencing:** Use a full-featured Avaya web collaboration capability as in the example screenshot below.
- **Video support:** Allows streaming video to all conference participants and appears in the web conferencing window.
- **Scheduling:** Schedule meetings using standard Microsoft Outlook or Lotus Notes calendar invitations, automatically populated with conference access information.

- **LDAP integration:** Integrate the conferencing system with corporate directories and databases for simple account maintenance.
- **Custom development:** Brand and develop custom applications, or integrate with existing applications and back office systems using available APIs.
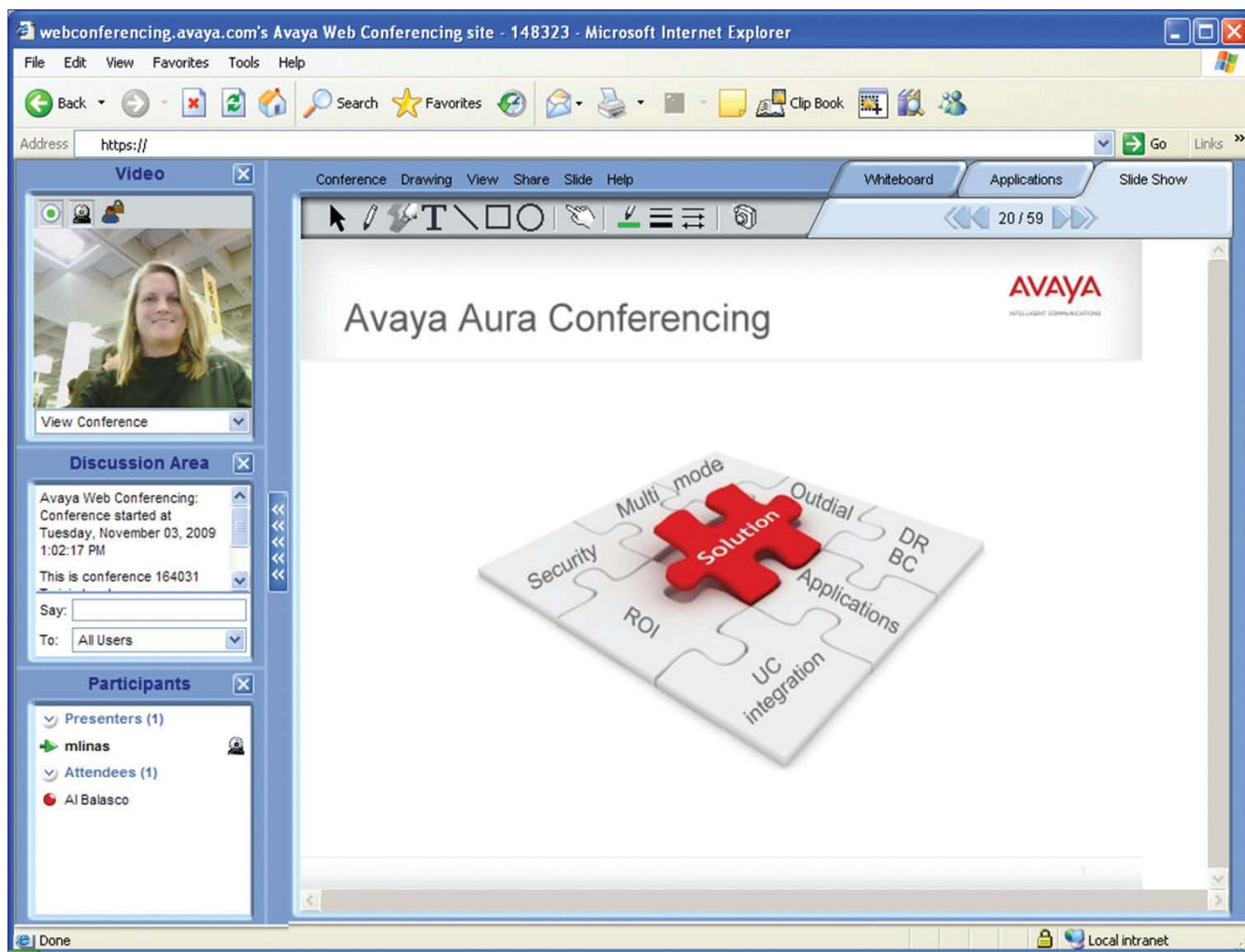
As well as offering native support for web conferencing, Conferencing Standard Edition can also integrate with the following 3rd party UC applications for increased convenience and capability:

- **IBM:** Lotus Sametime and Lotus Notes.
- **Microsoft:** Outlook Scheduler, LiveMeeting and OCS 2007 / R2.
- **Adobe:** Adobe Connect Web.

Localization is supported for the following countries (G13): China, Japan, Korea, India, France, Germany, Italy, Russia, UK, Mexico, Brazil, Canada and US.

Avaya Meeting Exchange 5.2 Enterprise Edition

Avaya Meeting Exchange 5.2 Enterprise Edition is a software based SIP conferencing application that operates on the standard S8800 server. It is a Linux based audio conferencing application using software media servers and is capable of expanding to up to 3200 ports on a single server or 4000 ports in the

"Pyramid" configuration that deploys the Media Server and Application Server functions on separate servers.

Meeting Exchange scales to 4000 callers on a single conference bridge. Capacity can be limitless when Meeting Exchange is deployed in multiple system configurations. Through exceptional scalability Avaya Meeting Exchange extends the collaborative power of carrier-class conferencing to the entire enterprise while eliminating the expense of fee-based services.

Meeting Exchange supports G.711 A-law or u-law, G.722, G.726, G.729 and iLCB codecs.

With a choice of features and deployment options to meet user and enterprise requirements, Meeting Exchange Enterprise enables you to customize a conferencing solution that will complement your existing processes. Meeting Exchange Enterprise offers higher scalability and more resiliency than Conferencing Standard Edition. Features include optional disaster recovery implementation, which provides a duplicate back-up system that allows near real-time synchronization of account and system information

Extended Local Calling

The Access Element (CS 1000) provides the Extended Local Calls (ELC) feature which, when enabled, provides CS 1000 users access to sequenced Applications.

Sequenced Applications are applications which are accessed during the originating, midstream, and terminating of a call. At any point along the call path sequenced Applications may be introduced to provide extended services to the call. The sequenced Applications include:
- Originating/Terminating call handling and treatment
- Conferencing services
- Messaging services
- Other specialized applications that enhance communications

User intervention is not required as the ELC is provided as part of the user's Class of Service (CLS) and its feature interaction is transparent to the user.

To provide Aura with information about the user's capabilities, the ELC feature routes all local calls to a preconfigured ELC route on the access element. Note: Both parties must be internal to the local call server or ELC is not invoked.

User intervention is not required as the ELC is provided as part of the user's Class of Service (CLS) and its feature interaction is transparent to the user.

Value of this feature will be fully realized as more sequenced applications become available. Examples of these are: Call Recording, Mobile Conferencing, etc. Look to engage your Global Professional Services Account team on this subject.

SIP Client Software 4.0

Line TLS and sRTP Support

CS 1000 release 7.5 will align with and support SIP4.0 SIP software for our Avaya 1100/1200 IP clients. SIP4.0 builds on the strong base of SIP3.2 software, bringing forward the many features and functions from that release of software. Key for CS1000 7.5 and SIP4.0 is the capability to align the SIP client security capabilities with support for SIP TLS (transport layer security for signaling) and sRTP (secure RTP for media) to the capabilities of the CS1000 UNIStim clients. This allows for global signaling and media security setting within a CS1000 system/network. Key benefits for the customer with SIP4.0 include

SIP4.0 is supported on a range of IP telephones allowing flexibility to meet a wide range of desktop needs.

SIP4.0 can be implemented as an upgrade to existing 11xx and 12xx UNIStim sets providing longer term investment protection to customers as they evolve to SIP-based services.

The SIP4.0 -supporting IP clients for CS1000 are shown below:

- SIP 1100 series that support SIP4.0 are the 1120e, 1140e, and 1165e (plus Key Module)

1120   1140   1165   KEM

- SIP 1200 series that support SIP4.0 are the 1220 and 1230 (plus Key module)

1220   1230   KEM

This family of IP telephones offers a flexible range of functionality for a wide variety of Enterprise users, and SIP 4.0 builds on the solid feature set of SIP3.2. With SIP4.0 firmware the following features are available as 'built-in' in the firmware:

SIP4.0 Features Available for CS1000	
SIP Core Features (RFC3261/SIPPING 19)	Authentication Security
3-way call / call conference	Bluetooth Headset support (1140E/1165E only)
Audio Codecs - Standard + Wideband	Call Server Service Package
Auto Login/Logout	Expansion Module support
Background Image	Instant Messaging
Busy Lamp Field (BLF)	Media Security (SRTP)
Distinctive Ringing	Multi-user Login support
Downloadable Ringtones	NAT Traversal/STUN
Image Screensaver & Lock	Proactive Voice Quality Mgt
Standard Font Languages	PC Client Control
Multiple calls per user	Signaling Security (TLS)
Server Failover Redundancy	USB headset support for audio
Session Timers	IPv6 Support
SNTP (Time Server)	
Speed Dial List	
Transfer to VM softkey	
USB memory stick	

Hotline	

This list of features and functions built-in with SIP4.0 compliments and augment the features available to SIP Line users in the CS1000. The following table shows telephony features available to CS1000 SIP Line users. It also includes the features available for the new OneX Communicator soft client that is introduced for CS1000 7.5 and is detailed above in this document.

General CS1000 Telephony Features Supported to SIP Clients	Avaya 1120, 1140, 1165 SIP	Avaya 1220, 1230 SIP	Avaya OneX Communicator
Standard Boss-Secretary features	Y, FFC	Y, FFC	N
Extension Mobility - ability to use 'un-assigned' phones	Y	Y	Y
Account code Capabilities and Forced authentication code	Y	Y	Y
Barge-in and Privacy	Y	Y	Y
Call forwarding - all calls	Server (FFC) and Local	Server (FFC) and Local	N
Call forwarding - busy	Y	Y	Y
Call forwarding - don't answer	Y	Y	Y
Call forwarding - follow-me (internal & external) (call forward by call type)	Y	Y	Y
Calling name delivery	Y	Y	Y
Calling number delivery	Y	Y	Y
Call hold	Y	Y	Client
Call park/retrieve	Y, FFC	Y, FFC	N
Call Pickup (Group) /retrieve	Y, FFC	Y, FFC	N
Call transfer	Y	Y	Client

Feature			
Call waiting	Y	Y	Y
Conference call (ad hoc, 3WC)	Y Server and Local	Y Server and Local	N
Last internal/external number redials	Y Client Call Logs	Y Client Call Logs	Y
Missed call indication			Client Call Logs
Speed dialing	Y, FFC	Y, FFC	Client Contact List, c2c
Music on Hold	Y	Y	Y
Hunting	Y	Y	Y
Do not Disturb (Make Set Busy)	Client Feature or FFC	Client Feature or FFC	N
Call back on busy (ring again on busy)	Y, FFC	Y, FFC	N
Call back on free (ring again no answer)	Y	Y	Y
Distinctive ringing	Client	Client	N
Immediate Divert -- Blind Transfer	Y	Y	Y
DAPC - Dialed Access Prefix Codes	Y	Y	Y
MADN - Multiple Appearance Directory number	Y	Y	Partial: DN appears on other phones, but can not see others
BLA - Bridged Line Appearance	Y	Y	N
SIP TLS (Transport Layer Security) for Signaling	Y	Y	Y
Support sRTP (secure RTP) for Media	Y	Y	Y

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CS1000 Hospitality Features Supported to SIP Clients			
Message Registration	Y	Y	N
Call Number Information Messages	Y	Y	N
Flexible Direct Inward Dialing	Y	Y	Y
Maid Identification	Y, FFC	Y, FFC	N
Room Status	Y, FFC	Y, FFC	N
Multi-language Wake-Up	Y	Y	N
VIP Automatic Wake-Up	Y	Y	N
Guest Entry of Automatic Wake-Up	Y, FFC	Y, FFC	N
Meridian Hospitality Voice Services	Y	Y	Y
Charge Accounting and Calling Party Number	Y, FFC	Y, FFC	N
Charge Account Forced	Y, FFC	Y, FFC	N
Pre-Translation	Y	Y	N
Single Digit Access to Hotel Services	Y	Y	Y
Controlled Class of Service	Y	Y	Y
Do not disturb	Client Feature or FFC	Client Feature or FFC	N
DID/DOD	Y	Y	Y
Message waiting indication	Y	Y	Y

G.722 codec Support

CS 1000 Release 7.5 introduces support for G.722, a wide band high quality audio codec, for use with UNISTim and SIP 11xx and 12xx IP phones series. Prior to Release 7.5, the CS 1000 only supported G.711, G.723 and G.729 codecs.

Many customers use IP telephony equipment that requires the use of the G.722 codec for example:

- Polycom, conference units
- Third party SIP clients
- Avaya OneX Communicator

G.722 is an ITU standard codec that provides 7 kHz wideband audio at data rates from 48, 56 and 64 kilobits per second. The following CS 1000 IP components were updated to support G.722:

- Call Server
- Signaling Server (TPS, SIP gateway, H.323 gateway, SIPLine, Media Services, Element Manager)

G.722 offers a significant improvement in the speech quality over older narrowband codecs such as G.711. It delivers better quality while using the same network bandwidth as G.711. G.722 will be selected instead of G.711 if it is enabled for the node and the client firmware supports it. G.722 is not supported for MGC/VGW channels. G.711/G.729 or G. 723 is used in the case of TDM, digital or MGC conference calls, depending on zone configuration. The IP call recording feature is not supported for the G 722 codec. Phones configured with RECA (Record Allowed) in the Class of Service will automatically select the G 711 codec instead.

Avaya OneX® Communicator Client

Avaya one-X® Communicator for CS 1000

Avaya One-X Communicator 6.1 for CS1000 will be supported with Release 7.5. The client is initially a controlled release with Limited Availability (LA) status - General Availability (GA) is planned for 1Q11. The LA release is English only with limited documentation and feature set (IM and Presence are not supported prior to GA release). The LA client will be restricted to sites that have participated in the Beta program, or sites that receive product management approval for deployment.

The Avaya One-X Communicator is a SIP UC softclient for PCs and registers as a SIP endpoint directly with CS 1000 SLG. The client requires a CS 1000 Avaya_SIP_Lines license for successful registration. The GA version will add Instant Messaging and Presence which will require Aura Presence Services 6.1.

CS 1000 R7.5 one-X Communicator Solution Architecture (Limited Availability Nov '10)
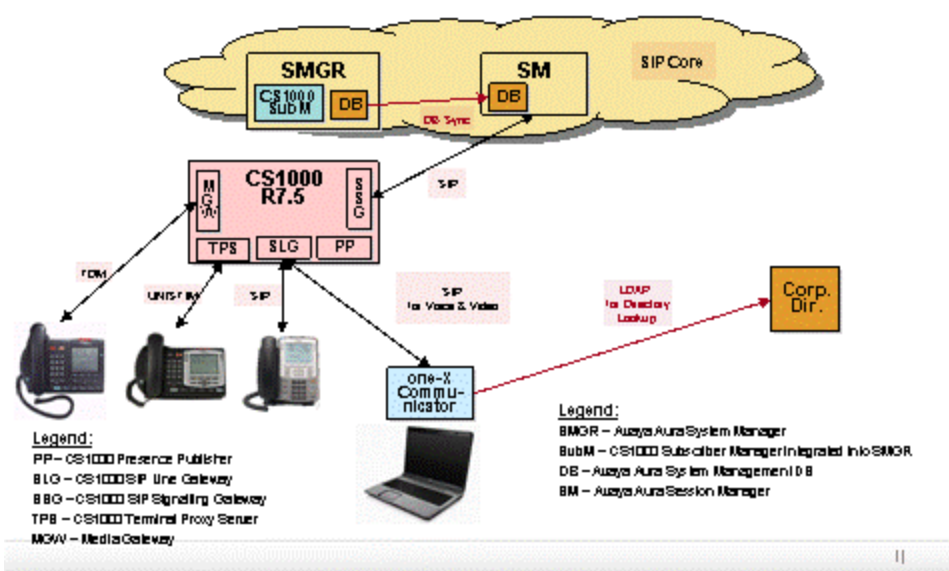
Supported Platforms

The following operating systems will be supported with this release:
- Microsoft Windows XP SP3 or higher
    - Home Edition
    - Professional Edition (32-bit & 64 bit)
- Microsoft Windows Vista SP2 or higher
    - Business Edition (32-bit & 64-bit)
    - Enterprise Edition (32-bit & 64-bit)
    - Ultimate Edition (32-bit & 64-bit)
- Microsoft Windows Server 2008 (32-bit & 64-bit)
- Microsoft Windows 7
    - Professional Edition (32-bit & 64-bit)
    - Enterprise Edition (32-bit & 64-bit)
    - Ultimate Edition (32-bit & 64-bit)

The following additional Microsoft components are also required:
- Microsoft .NET Framework 4.0
- Microsoft DirectX
- Version 9.0c for Microsoft Windows XP
- Version 10 for Microsoft Vista

The One-X Communicator for CS 1000 does not support all the functionality of the CM version. Restrictions include:

▸ My PC/VoIP mode only – the client only operates in VoIP mode where the media is delivered over the IP connection. The client does not support telecommuter or office mode where the client controls media being delivered to other phones or office deskphone.

▸ One-X Portal features are not supported. Features delivered via Avaya one-X Portal such as conference bridge control, consolidated call logs and visual voicemail are not available.
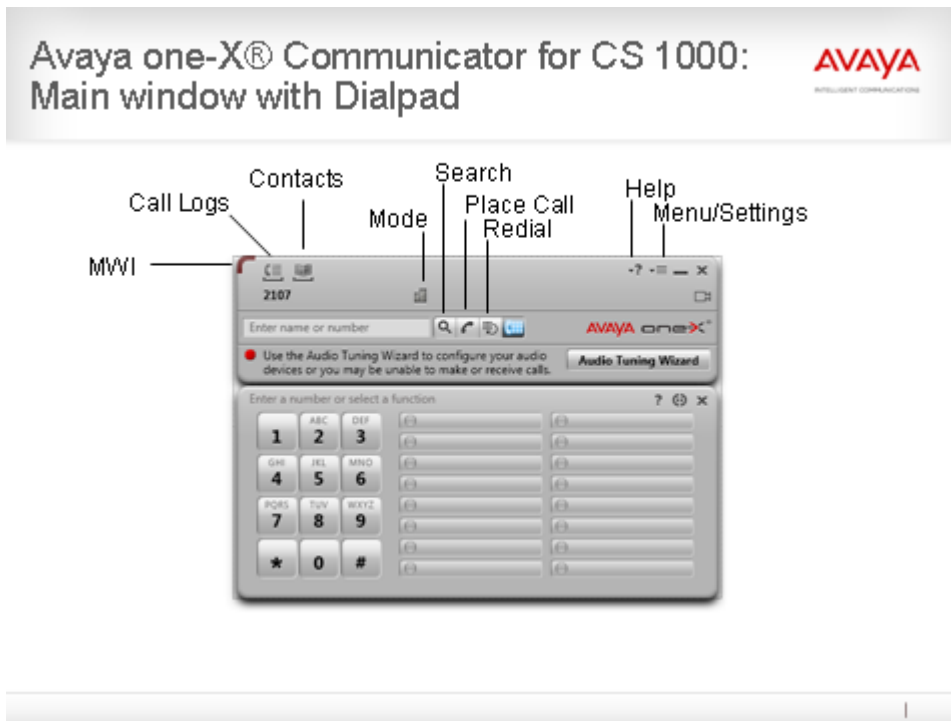
Features of the one-X Communicator for CS 1000 LA release include:

▸ Local contact list
▸ Call logs
▸ Click-to-call from browsers (IE or Firefox)
▸ Point-to-Point HD video (H.264)
▸ Account Code Capabilities and Forced Authentication Code
▸ Attendant Console
▸ Background Terminal
▸ Barge-in and Privacy
▸ Attendant Break-in
▸ Call Forward by Call Type
▸ Call Forward All Calls (on Server)
▸ Call Forward Busy (on Server)
▸ Call Forward – Don't Answer
▸ Call Hold
▸ Call Park and Retrieve

- Call Pickup (Group) and Retrieve
- Call Priority and Preemption
- Call Transfer (Blind Transfer)
- Call Transfer with Consultation
- Call Conference
- Call Waiting
- Caller ID (Number/Text)
- Calling number delivery
- Calling name delivery
- Calling Party Name Display Denied
- IP Phone registration
- Direct Inward Dialing (DID) and Direct Outward Dialing (DOD)
- Directory access
- Display of Access Prefix for CLID/CONN# (DAPC) for SIP Lines
- Do Not Disturb (Make Set Busy) – Server
- Hunting
- Intercept Treatment
- Last internal/external number redials
- Message Waiting Indication
- Music on Hold
- Missed call indication
- Ring Again Busy
- Ring Again No Answer
- Shared Extensions on Multiple Phones
- Speed dialing
- Standard Boss-Secretary features

OneX® Mobile Lite Client for iPhone

The CS 1000 R7.5 Mobile Extension feature has been enhanced to support a new class of mobile client. Using in-band signaling with DTMF tones, the one-X Mobile Lite for iPhone client allows for intuitive control of Mobile Extension features using an application interface rather manual keypad dialing sequences.

Prerequisites:
A Mobile Extension account must be provisioned for each one-X Mobile Lite for iPhone user. Additionally, Mobile Extension must also be specifically configured to support one-X Mobile Lite for iPhone
- iPhone applications are unable to generate the '#' or '*' tones typically used for Mobile Extension FFCs
- To solve this problem, CS 1000 R7.5 allows for multi-digit FFCs (eg. '766' instead of '*8')
- CS 1000 R7.5 also allows a multi-digit code to signal end of sequence (eg. '*8#' can also be executed with '766888')
- Traditional FFCs can co-exist with iPhone multi-digit FFCs without conflict. This allows Mobile Extension to support both regular users and iPhone client users.
- Refer to accompanying CS 1000 R7.5 materials for detailed instructions on how to configure Mobile Extension for one-X Mobile Lite for iPhone

Features and Benefits:

- Mobile GUI for CS 1000 R7.5 Mobile Extension features
- Additional mobile gateway not required

- Eliminates manual keypad entry
- Service access dialing
- Feature code dialing
- Toll avoidance on long distance calls
- Corporate directory/contacts search & click-to-call
- Automatic dial format conversion
- Mobile number privacy - office CLID shown for iPhone calls
- Single number reach – iPhone rings with deskphone
- Single button feature activation
- Simultaneous ring activate/disable
- Call forward activate/disable
- Cellular voicemail avoidance
- CS 1000 CDR for mobile calls
- Aura Presence status updates for iPhone calls
- Compatible with all iPhone models
- iPhone OS3.x/4.x
- Free download from Apple Appstore
  (requires a configured Mobile Extension account)

Product Improvement PEPs Integration

The following PI PEPs have been integrated into 7.5.

SIP Trunk Anti-Tromboning (TAT)

Trunk Anti Tromboning optimizes tromboned virtual trunks and saves resources (and hence the associated costs) for the customer. In many cases they also save the DSP resources. This is a significant savings where a large percentage of the calls are frequently transferred back to the same node: example: CS 1000 to sip IVR, CS 1000 to SIP attendant console. This improves voice quality by eliminating the unnecessary TDM to IP conversions associated with multiple tandem IP telephony voice paths; which results from network call transfers in hybrid networks.

Feature Limitations:
SIP TAT (which is based on MCDN TAT) kicks in and optimizes the two virtual SIP trunks only after the transferred to party has answered and up until then the two virtual trunks will be held.

Existing PI PEP (ACT) Patch (Rls 5.x & Rls 6.0)
MPLR29908 Signaling Server Patch

DSC Expansion
This PI PEP increased the number of steering codes (DSC) per system from 32000 to 64000. Specifically, the existing MXSC (max steering codes) in LD 86 is increased from 0-32000 to 0-64000. Many customers use the entire DN as DSC to achieve number portability across the private network and hence the requirement for this increase in number of the steering codes.

Existing PI PEP (ACT) Patch (Rls 6.0)
MPLR27441

Call Detail Record (CDR) BLID Enhancement
This PI PEP resolved the following issue. When a conference or transfer is initiated with 2 external DNs and the initiator goes out of line, the billing record does not contain any information about the conference initiator in the end record. So for the following call scenario:
Set A calls Set B, Set A initiates transfer to Set C.
Set A completes transfer and leaves the call. Set B completes the call.

The solution now is:
When a conference or transfer is initiated with 2 external DN and the initiator goes out of line, in the end record in the 3rd line BLID field will be printed with the initiator DN information.
In LD 15, under CDR data configure the existing BLID feature to enable printing BLID field in the CDR record.

Plug-in Feature Overview and Summary

The purpose of this software enhancement was to build the structure to allow the integration of select PI patches (Plug-in) with the capability to enable or disable each through the overlay. Table was created with 1024 Fields to facilitate the capacity of up to 512 Plug-ins. The Enabling or disabling capability was introduced and protected by a password. This password is a 2nd level password.

Package 366 as EMEA only Plug-ins was introduced with CS 1000 Release 24; several Plug-ins were added in subsequent releases.

Package 409 as Global Plug-ins was introduced with Release 5.0; several Plug-ins were added in subsequent releases.

Plug-ins that were "enabled" in the previous release will continue to be "enabled" in the current release, if they are supported.

Plug-ins that were supported in the previous release but not supported in the current release, the status is set to "obsolete".

New Plug-ins that are supported from this release are set to "disabled" state; others are set to "not supported" state.

System Administration
Overlay 22 to print out the new PLUGIN package and Plug-ins/patch information.

PDT Administration
Problem Determination Tools PDT current commands to support Plug-ins
Three PDT commands to enable disable and print the status:

Enable the Plug-in :	"ple <plug-in number>".
Disable the Plug-in :	"pld <plug-in number>".
Print the status of the Plug-in :	"plp [<plug-in number>]".

Please refer to Appendix K for an updated list of supported Plug-ins with CS 1000 Release 7.5.

A summary is listed below:

- Plug-in 209   "MPLR11158" Call forward incoming DPNSS to outgoing DPNSS using TSC & DMI
- Plug-in 226   "MPLR15783" Display more than 10 digits CLID for incoming trunks calls

- Plug-in 504   "MPLR24744" handle incoming progress indicator (PI) =10 in the setup message on North American CO interfaces [D250, NI2, D100,SL100, ESS4/5]
- Plug-in 9   "MPLR29268" Calling number display issue with Plug-in 9
- Plug-in 236   "MPLR25106" Support of Autodial to output DTMF for CO as Auth-codes

FEATURE / PLATFORM MATRIX

See table below for all new features added in Release 7.5:

Features& Enhancements	Software Package			New License	Applicable systems	Notes
	New SW Package	Enhance ment to SW Package	New SW Service Package Tier(1 or 2)			
System Evolution & Call Processor ,Signaling Server & Operating System Enhancements						
Package 366		Plug-in 10 and 501 are enhanced			All Systems	See Appendix J
Package 409		Several Plug-ins added			All Systems	See Appendix J
Security Enhancement						
SIP 4.0 Client Software Security improvements					All Systems	
System Management						
Unified Communications Management Enhancements thru the integration with Avaya Aura System Manager™					All Systems	

UPGRADE & MIGRATION CONSIDERATIONS

Software Upgrades Supported

Automatic conversion is supported directly to CS 1000 Release 7.5 software from CS 1000 Release 23 or later. Any other software upgrades are available using the In-house conversion program.

Network Upgrade considerations

There are some rules about the combinations of software that can co-exist within a customer's network and function in a predictable manner. These rules should be taken into account when planning an upgrade.

Of course, it is also possible to operate a network indefinitely with some of these combinations, as long as it is understood that feature operation at the locations with earlier software will have relatively restricted feature capabilities.

Please refer to customer documentation in the areas of planning and upgrades for additional information.

Mixed software on peer nodes

Peer nodes within the network can run any desired combination of CS 1000 Release 5.0, 5.5, 6.0 and 7.0. Note limited support for both 4.0 and 4.5 is to be announced post GA of 7.5. This support will only be available during migrations/upgrades to 7.5.

Mixed Software: Main and Branch Office

Main and Branch office running different releases: It is recommended that the software release on the Branch Office always match the software release on the Main office. However, it is possible for the Main office Call Server and the MG 1000B to have different software releases, as long as the Main office is running a release that is higher than or equal to that of the Branch office. The MG 1000B cannot be a higher software release than the Main. In addition, it is possible to have branch offices running different software releases - see below for range of releases.

For the Mixed software policy, the following combinations are supported. For a Main office on Release 7.5, a Branch office on 7.5, or 7.0, or 6.0 is supported. For a Main office on Release 7.0, a Branch office on 7.0 or 6.0 is supported. Similarly, for a Main office on Release 6.0, a Branch office on 6.0 or 5.x is supported (includes 6.0, 5.5, or 5.0). These combinations are supported on a permanent basis. For those releases that have reached End of Manufacturer Support (EoMFS) supported is limited as there is no longer any corrective content for those releases.

In addition, the following combinations have limited support as described below. We shall also support a Mixed Main/Branch combination where the Branch can be two releases back for the upgrade path only on a temporary basis (30 days maximum):

For Main office at 7.5
• Branch office may be on 5.x (5.5, 5.0)
For Main office at R7.0
• Branch office may be on 5.x (5.5, 5.0)
For Main office at 6.0

- Branch office may be on 4.x (4.5, 4.0)

Signaling Server

Call Server and Signaling Server software releases on both the Main Office and at the Media Gateway 1000Bs should be congruent at all times.

NRS Migration to Session Manager

There are a number of steps and considerations for when migrating from the NRS to Session Manager. The following NTP should be referenced during these migrations "Planning the Network Wide Upgrade"

1. Deployment of System Manager is a prerequisite for Session Manager deployment.
2. The same number of Session Manager instances in a new solution will be required as there were NRS instances in the old solution. Some exceptions apply given that Session Manager R6.1 is deployed on new more powerful HP servers (HP DL360G7).
3. To facilitate the NRS to Session Manager a web-based tool is available so the NRS Manager provisioning data can be migrated to System Manager. This data migration includes a separate step for every NRS pair. The web-based tool can found here https://nrstool.avaya.com/default.aspx .
4. NRS migration patch for previous releases of CS 1000 is required to prepare the NRS configuration data for migration/conversion. Note: Routing configuration on individual CS 1000 systems in the solution does not need to be changed due to NRS to System Migration.
5. The NRS (SIP Proxy Server) instances are kept running until the migration is completed. This removes the need for a "flash-cut" which is not a viable approach for large networks. The replacements of NRSs with Session Managers in a large solution may take several weeks. The reason why this is not expected to be longer than this is because the CS 1000 system upgrades (if required) are done after the NRS replacement is completed.
6. The migration procedure entails is creating a Session Manager based SIP routing overlay in parallel to the existing NRS based routing infrastructure. During migration there are two SIP routing planes. At the beginning of the migration all CS 1000 SIP entities are pointed to the NRS-SPS plane. Conversely at the end of the migration all of the SIP entities should be pointed to the SM plane.
7. For the recommended migration procedure all CS 1000 systems are directly compatible with Session Manager 6.1 regardless of which release they are at (7.5, 7.0, 6.0, 5.5, 5.0, 4.5 and 4.0). This means that each node can receive calls from and send calls to a Session Manager without the need for a software upgrade. This also means that the NR replacement with Session Manager can happen prior to upgrading any of the CS 1000 instances in the network. Note: there is limited support (only during the migration) for Releases 5.5, 5.0, 4.5 and 4.0.
8. To ease the migration process there are patches available for the NRS. The NRS migration patch provides a CLI command to automatically convert registered dynamic NRS gateway endpoints into static ones. This prepares the NRS configuration data for conversion. It is important to note the patch is not available for NRS 4.0 and 4.5. Migrating NRS 4.x requires extra administration steps.

The following Product Enhancement Patches (PEPs) required are:

R7.0 NRS: nortel-cs1000-sps-7.00.20-07.i386.000

R6.0 NRS: nortel-cs1000-sps-6.00.18.65-09.i386.001
R5.5 NRS: MPLR30487
R5.0 NRS: MPLR30487

TLS Certificate alignment between CS 1000 SIP gateway and Avaya Aura® Session Manager
R7.5/R7.0/R6.0 Signalling Server: MPLR30526

9. As a general rule, CS 1000 systems running R5.5 and older release are expected to upgrade to R7.5 as the last step to the NRS to Session Migration procedure. A number of limitations are to be expected if the upgrade to R7.5 is not performed:
- R4.X releases do not support mid-call DTMF transport using RFC2833 method therefore access to non-CS 1000 applications may be problematic;
- R5.X implementation of best-effort negotiation of secure media (sRTP) is proprietary therefore secure media connectivity to non-CS 1000 solution components is not available;
- Fully integrated/centralized Security Management is available only starting from R6.0 (with introduction of CS 1000 Unified Communication Manager – UCM); This facilitates:
- Secure internal (intra-system) communications
- Ease of secure signalling (TLS) administration
- Support for Linux and COTS platforms across all CS1000 portfolio components is available only starting from R6.0;
- Interworking/Peering between CS 1000 and Avaya Aura® Communication Manager (CM) R6.0/6.0.1 is supported only on CS1000 R7.5 – Older releases receive a reduced feature set in peering scenarios;
- At time of the GA of R7.5 both CS1000 R5.X and R4.X releases are in the MD/EoMFS stage of their software lifecycle (i.e. no new corrective content).

Survivable Media Gateway – Mixed Software Releases Not Supported

Primary Call Server and Survivable Media Gateway upgrades: The software release on the Survivable Media Gateway – Alternate (Secondary) Call Server must match the software release on the Primary Call Server at all times. Mixed software release operation is not supported. The only exception to this rule is the brief period during a system software upgrade when Primary Call Server and Alternate Call Server versions will be temporarily different. The sequence of software upgrades is important: all Alternate Call Servers in a geographical redundancy environment must be upgraded first. The Primary Call Server is upgraded last. The upgrade time period should be minimized and it is recommended that it not be longer than a few days. At no time can the Primary Call Server software version be higher than the Alternate Call Server software version.

During the upgrade window when software versions are mismatched there is a risk of release dependent operational differences should a fail over occur.

Applicable PEPs

For Release 7.5 Patches, navigate a web browser to the Enterprise Solutions PEP Library (ESPL) to download all required patches for your respective machine types.

https://support.avaya.com/espl

Note: Linux SP Installation Instructions

The installation sequence is:
1. Upgrade the UCM primary security server to Release 7.5 software
a. Install the latest 'linuxbase' SU on the UCM Primary Security using CLI. (extract from SP or download individually) (See Communication Server 1000 Patching Fundamentals NN43001-407 for details on CLI patch commands).
   - upload cs1000-linuxbase-7.50.17.xx-xx.i386.000.ntl to /var/opt/nortel/patch.
(Use file transfer tool such as http://winscp.net/, login and transfer will require 'admin2' account)
   - pload cs1000-linuxbase-7.50.17.xx-xx.i386.000.ntl
   - pins <patch handle #>
b. Upload and install the SP on the UCM Primary Security (UCM Patch Manager can be used)
2. Upgrade the member servers to Release 7.5 using the deployment manager
1. Install the SP on all other Member Servers using UCM Patch Manager.
2. Upgrade the member servers to Release 7.5 using the deployment manager
3. Install the SP on all other Member Servers

Call Server PEP Dependency Lists/Packs & Linux SP's will be posted as they become available. Please check regularly for updates. Please follow carefully any special instructions noted on the ESPL web site.

Product Improvement PEPs (PI PEP Category "ACT")

For CS 1000, all software patches including PI PEPs are deleted when converting to a new software release, or when performing software up issue.

Identifying these PI PEPs prior to a system upgrade quote is required as incremental charges will be required.

Refer to the Enterprise Solutions PEP Library (ESPL) website for the status and availability of any ACT PEPs that are applicable to your specific system and configuration Avaya or Avaya Partner.

http://support.avaya.com/espl

To determine if the system has chargeable PEPs, please access the Patch inquiry tool via the 'CS1000 Patch Inquiry Tool' link available in other links on the eBiz Home Page.

http://www.avaya.com/ebizn

Feature Advisements

The following features/configurations are not supported in this release.

- The NRS is not supported with CS 1000 7.5 except in the following cases:

  - H.323 Gatekeeper
  - IPv6
  - CS 1000 HS internal NRS
  - During the migration period prior to all CS 1000 Gateways being re-pointed to   Session Manager

- Session Manager integration with IBM Sametime is not supported. IBM Sametime requires ACE to be supported with the CS 1000 7.5.

- OCS 2007 Release 2 with NRS

- IM and Presence with OpenFire is not supported – this was the CS 1000 7.0 IM & P solution

- IP Softphone 3456 client

- IP Softphone 3457 client (for Lotus Notes)

- 3100 Mobile Communicator (Expanded mobility offers for CS 1000 will be available from the One-X® Mobile portfolio in future releases

- MCS 5100

- AS 5300

COMPATIBILITY SUMMARY

Auxiliary Application Compatibility Matrix, Systems

Chart Key:

Updated from R7.0

New item

Auxiliary Processors	CS 1000 Release 7.5 Auxiliary Application Compatibility Matrix			
	Compatible Releases by CS 1000 Platforms			
	Option 61C, 81C – upgrades only, must have CPPIV + FNF	CS 1000E	CS 1000E HS	CS 1000E CO-RES
	CS 1000M Single Group / Multi Group with CPPIV	Equipped with CPPM	Equipped with CPPM	CPPM, CPMG, CPDC or COTS
Attendant Console				
PC Console Interface Unit	Supported	Supported	Supported	Supported
Meridian Attendant PC software	Supported	Supported	Supported	Supported
M2250 Attendant Console	Supported	Supported	Supported	Supported
IP Attendant Console 3260	Not supported	Supported	Supported	Supported
M2016S Digital Secure Sets				
M2016S Secure Set (NA Only)	Supported	Supported	Supported	Supported
M2000 Series Sets				
M2006	Limited Support[7]	Limited Support[7]	Limited Support[7]	Limited Support[7]
M2008	Limited Support[7]	Limited Support[7]	Limited Support[7]	Limited Support[7]
M2216	Limited Support[7]	Limited Support[7]	Limited Support[7]	Limited Support[7]
M2616	Limited Support[7]	Limited Support[7]	Limited Support[7]	Limited Support[7]
M3900 Sets				
M39xx	Supported	Supported	Supported	Supported
System Management				
Optivity Telephony Manager	Not supported	Not supported	Not supported	Not supported
Telephony Manager	Not supported	Not supported	Not supported	Not supported
Subscriber Manager	Supported (2.2)[8]	Supported (2.2)	Supported (2.2)	Supported (2.2)
Element Manager	Supported (7.x)[8]	Supported (7.x)	Supported (7.x)	Supported (7.x)
Patch Manager	Supported[8]	Supported	Supported	Supported
Deployment Manager	Supported[8]	Supported	Supported	Supported
WEB Services	Supported[8]	Supported	Supported	Supported

Base Manager	Supported [8]	Supported	Supported	Supported
Security Framework	Supported [8]	Supported	Supported	Supported
Visualization Performance and Fault Manager (VPFM)	Supported [8] (2.x*)	Supported (2.x*)	Supported (2.x*)	Supported (2.x*)
Proactive Network Manager Tool	Not Supported	Not Supported	Not Supported	Not Supported
Messaging				
CallPilot	Supported (5.0)	Supported (5.0)	Supported (5.0)	Supported (5.0)
HMS 400	Supported (2.0)	Supported (2.0)	Supported (2.0)	Supported (2.0)
CallPilot Mini	Not Supported	Not Supported	Not Supported	Not Supported
Meridian Mail Modular Option EC	Not Supported	Not Supported	Not Supported	Not Supported
Meridian Mail Enhanced Card	Not Supported	Not Supported	Not Supported	Not Supported
UM2000	Not Supported	Not Supported	Not Supported	Not Supported
Companion				
Companion	Not Supported	Not Supported	Not Supported	Not Supported
IP Clients				
Integrated DECT	Supported	Supported	Supported	Supported
SIP DECT	Supported [8] (4.2 or later)	Supported (4.2 or later)	Supported (4.2 or later)	Supported (4.2 or later)
WLAN Handset 2210 / 2211	Supported [8] (97.072)	Supported (97.072)	Supported (97.072)	Supported (97.072)
WLAN Handset 2212	Supported [8] (97.072)	Supported (97.072)	Supported (97.072)	Supported (97.072)
WLAN IP Telephony Manager 2245 500-user	Supported [8] (174.037 or later)	Supported (174.037 or later)	Supported (174.037 or later)	Supported (174.037 or later)
WLAN IP Telephony Manager 2245 10-user	Supported [8] (174.037 or later)	Supported (174.037 or later)	Supported (174.037 or later)	Supported (174.037 or later)
WLAN IP Telephony Manager 2245 20-user	Supported [8] (174.037 or later)	Supported (174.037 or later)	Supported (174.037 or later)	Supported (174.037 or later)
WLAN Application Gateway 2246	Supported [8] (82.019)	Supported (82.019)	Supported (82.019)	Supported (82.019)
WLAN Handset 6120, 6140	Supported [8] (115.025 or later)	Supported (115.025 or later)	Supported (115.025 or later)	Supported (115.025 or later)
IP Phone 2001 (Phase 2)	Supported [8] (3.4)	Supported (3.4)	Supported (3.4)	Supported (3.4)
IP Phone 2002 (Phase 1)	Limited Support[7,8]	Limited Support[7]	Limited Support[8]	Limited Support[9]
IP Phone 2002 (Phase 2)	Supported [8] (3.4)	Supported (3.4)	Supported (3.4)	Supported (3.4)
IP Phone 2004 (Phase 0)	Limited Support[7,8]	Limited Support[7]	Limited Support[7]	Limited Support[7]
IP Phone 2004 (Phase 1)	Limited Support[7,8]	Limited Support[7]	Limited Support[7]	Limited Support[7]
IP Phone 2004 (Phase 2)	Supported [8] (3.4)	Supported (3.4)	Supported (3.4)	Supported (3.4)
IP Phone 2007	Supported [8] (5.0)	Supported (5.0)	Supported (5.0)	Supported (5.0)
IP Audio conference	Supported [8] (S80)	Supported (S80)	Supported (S80)	Supported (S80)

Phone 2033				
IP Softphone 2050	Supported [8] (4.x)	Supported (4.x)	Supported (4.x)	Supported (4.x)
IP Softphone for Windows Mobile	Supported [8] (2.4)	Supported (2.4)	Supported (2.4)	Supported (2.4)
IP Softphone 3456	Not Supported	Not Supported	Not Supported	Not Supported
IP Softphone 3457 (Lotus Notes version)	Not Supported	Not Supported	Not Supported	Not Supported
IP Phone 1110	Supported [8] (5.0)	Supported (5.0)	Supported (5.0)	Supported (5.0)
IP Phone 1120E	Supported [8] (5.0)	Supported (5.0)	Supported (5.0)	Supported (5.0)
IP Phone 1140E	Supported [8] (5.0)	Supported (5.0)	Supported (5.0)	Supported (5.0)
IP Phone 1150E	Supported [8] (5.0)	Supported (5.0)	Supported (5.0)	Supported (5.0)
IP Phone 1165E	Supported [8] (5.0)	Supported (5.0)	Supported (5.0)	Supported (5.0)
IP Phone 1200 Series (1210/1220/1230 and 12 Key LCD Expansion Module)	Supported [8] (5.0)	Supported (5.0)	Supported (5.0)	Supported (5.0)
IP Phone 11xx/12xx/KEM SIP f/w	Supported [8] (4.0)	Supported (4.0)	Supported (4.0)	Supported (4.0)
NT-LG 1535	Not supported	Not supported	Not supported	Not supported
Application Gateway 1000 & 2000	Not Supported	Not Supported	Not Supported	Not Supported
Remote Office Portfolio				
Remote Gateway 9115	Supported (1.6.1)	Supported (1.6.1)	Supported (1.6.1)	Supported (1.6.1)
Remote Gateway 9150	Supported (1.6.1)	Supported (1.6.1)	Supported (1.6.1)	Supported (1.6.1)
Mini Carrier Remote	Supported (r11)	Supported (r11)	Supported (r11)	Supported (r11)
Carrier Remote	Supported (7.03)	Not Supported	Not Supported	Not Supported
Fiber Remote Single & Multi IPE	Supported	Not Supported	Not Supported	Not Supported
LineSide T1/E1	Supported (4.0)	Supported (4.0)	Supported (4.0)	Supported (4.0)
Enhanced LineSide E1	Supported (3.06)	Supported (3.06)	Supported (3.06)	Supported (3.06)
Symposium Call Center and CTI Applications				
Symposium TAPI Service Provider	EOL	EOL	EOL	EOL
Symposium Agent	EOL	EOL	EOL	EOL
Meridian Link Services [MLS]	Supported (6.0, 7.0) – 1Q11	Supported (6.0, 7.0) – 1Q11	Supported (6.0, 7.0) – 1Q11	Supported (6.0, 7.0) – 1Q11
Symposium Express Call Center [SECC]	Not Supported	Not Supported	Not Supported	Not Supported
Symposium Call Center Server [SCCS] incl. Symposium Web Client.	Not Supported	Not Supported	Not Supported	Not Supported

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Symposium Web Center Portal [SWCP]	Not Supported	Not Supported	Not Supported	Not Supported
Contact Center Suite				
Remote Agent Observe	Supported (1.0)	Supported (1.0)	Supported (1.0)	Supported (1.0)
Agent Greeting	Supported (3.0, 4.0)	Supported (3.0, 4.0)	Supported (3.0, 4.0)	Supported (3.0, 4.0)
Contact Center Manager (CCM) & Meridian Link Services [MLS]	Supported (6.0, 7.0) – 1Q11	Supported (6.0, 7.0) – 1Q11	Supported (6.0, 7.0) – 1Q11	Supported (6.0, 7.0) – 1Q11
Contact Center Multi-Media [CCMM]	Supported (6.0, 7.0) – 1Q11	Supported (6.0, 7.0) – 1Q11	Supported (6.0, 7.0) – 1Q11	Supported (6.0, 7.0) – 1Q11
Contact Center Outbound [CCO]	Supported (6.0, 7.0) – 1Q11	Supported (6.0, 7.0) – 1Q11	Supported (6.0, 7.0) – 1Q11	Supported (6.0, 7.0) – 1Q11
NES Contact Recording [NCR]	Supported (6.5 and 7.0)	Supported (6.5 and 7.0)	Supported (6.5 and 7.0)	Supported (6.5 and 7.0)
NES Quality Monitoring [QM]	Supported (6.5 and 7.0)	Supported (6.5 and 7.0)	Supported (6.5 and 7.0)	Supported (6.5 and 7.0)
NES Workforce Management [WFM]	Supported (7.0)	Supported (7.0)	Supported (7.0)	Supported (7.0)
Communication Control Toolkit (CCT)	Supported (6.0, 7.0) – 1Q11	Supported (6.0, 7.0) – 1Q11	Supported (6.0, 7.0) – 1Q11	Supported (6.0, 7.0) – 1Q11
IVR Applications				
Periphonics IVR (VPS/is)	Not supported EOL	Not supported EOL	Not supported EOL	Not supported EOL
Communication Control Toolkit (CCT) for VPS/is and MPS500/1000	Supported (6.0, 7.0) – 1Q11	Supported (6.0, 7.0) – 1Q11	Supported (6.0, 7.0) – 1Q11	Supported (6.0, 7.0) – 1Q11
Multimedia Processing Server (MPS) 100	Not supported EOL	Not supported EOL	Not supported EOL	Not supported EOL
Multimedia Processing Server - MPS 500, MPS 1000	Supported (3.0, 3.5)	Supported (3.0, 3.5)	Supported (3.0, 3.5)	Supported (3.0, 3.5)
ICP	Not Supported	Supported (FP3)	Supported (FP3)	Supported (FP3)
Avaya Aura Offsite Agent	Supported (6.0)	Supported (6.0)	Supported (6.0)	Supported (6.0)
Business Communication Manager				
Business Communications Manager 1000	Not supported EOL	Not supported EOL	Not supported EOL	Not supported EOL
Business Communications Manager 200/400 (6.0)	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces
Business Communications Manager 50 (6.0)	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces
Business Communications Manager 450	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces

(6.0)		interfaces		
Norstar				
Norstar 3X8-DR5.1	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces
Norstar CICS 7.1	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces
Norstar MICS 7.1	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces
Integrated Apps				
Integrated Call Assistant (ICA)	Supported	Supported	Supported	Supported
Integrated Conference Bridge (ICB)	Supported (4.3 or later)	Supported (4.3 or later)	Supported (4.3 or later)	Supported (4.3 or later)
Integrated Conference Bridge Pro (ICB Pro)	Supported (4.5 or later)	Supported (4.5 or later)	Supported (4.5 or later)	Supported (4.5 or later)
Integrated Recorded Announcement (RAN)	Supported (3.0 or later)	Supported (3.0 or later)	Supported (3.0 or later)	Supported (3.0 or later)
Integrated Call Director	Supported	Supported	Supported	Supported
Integrated Hospitality Services (HIVS)	Supported	Supported	Supported	Supported
Other				
IP Trunk	Not Supported	Not Supported	Not Supported	Not Supported
Multimedia Conferencing (NMC)	Supported (6.0)	Supported (6.0)	Supported (6.0)	Supported (6.0)
Microsoft LCS	Not Supported	Not Supported	Not Supported	Not Supported
Microsoft OCS 2007, R2	Supported (via SM)	Supported (via SM)	Supported (via SM)	Supported (via SM)
Microsoft OCS Lync	Supported (via ACE2.2) - 1H2011	Supported (via ACE) - 1H2011	Supported (via ACE) - 1H2011	Supported (via ACE) - 1H2011
Microsoft Exchange UM 2007	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect
IBM Sametime	Supported (via ACE)	Supported (via ACE)	Supported (via ACE)	Supported (via ACE)
SMC2450	Not Supported	Not Supported	Not Supported	Not Supported
ACE	Supported (2.3)	Supported (2.3)	Supported (2.3)	Supported (2.3)
Mobile Communications 3100	Not Supported	Not Supported	Not Supported	Not Supported
Multimedia Call Server				
AS 5300	Not Supported	Not Supported	Not Supported	Not Supported
MCS 5100	Not Supported	Not Supported	Not Supported	Not Supported

SCS	Not Supported	Not Supported	Not Supported	Not Supported
CS 2x00				
Genband C20 (formerly CS 2000)	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect
CS 2100 (SE13)	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces
DevConnect				
AudioCodes Mediant 1000/2000	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect
Quintum Tenor AS Series	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect
T-Metrics Attendant console	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect
ipDialog SIP clients	Not supported	Not supported	Not supported	Not supported
Teledex SIP clients	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect
Telematrix SIP clients	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect
3RD Party				
Cisco SIP sets	Not supported	Not supported	Not supported	Not supported
Cisco Gateway	Not supported	Not supported	Not supported	Not supported
Cisco Call Manager	Supported (6.0) (SIP,QSIG)	Supported (6.0) (SIP,QSIG)	Supported (6.0) (SIP,QSIG)	Supported (6.0) (SIP,QSIG)
CS 1000 Applications				
Media Services Controller	Not supported	Supported	Supported	Supported
TPS	Supported [8]	Supported	Supported	Supported
SIP Gateway	Supported [8]	Supported	Supported	Supported
H.323 Gateway	Supported [8]	Supported	Supported	Supported
PD/RL/CL	Supported [8]	Supported	Supported	Supported
Unicode Name Directory (needs Subscriber Manager)	Supported [8]	Supported	Supported	Supported
SIP Line Gateway	Supported [8]	Supported	Supported	Supported
Gatekeeper	Supported [8]	Supported	Supported	Supported
NRS/NRSM	Supported [8]	Supported	Supported	Supported
MAS / Media Server (7.5/7.0)	Not supported	Supported	Supported	Supported
SIP Trunk Bridge	Supported [8]	Supported	Supported	Supported
Aura Applications				
Avaya Modular Messaging 5.2	Supported [8] (via SM) – 1Q11	Supported (via SM) – 1Q11	Supported (via SM) – 1Q11	Supported (via SM) – 1Q11
Avaya Aura Messaging 6.0	Supported [8] (via SM) – 1Q11	Supported (via SM) – 1Q11	Supported (via SM) – 1Q11	Supported (via SM) – 1Q11
Avaya Meeting Exchange 5.2	Supported [8] (via SM)	Supported (via SM)	Supported (via SM)	Supported (via SM)

Avaya Aura Conferencing 6.0	Supported [8] (via SM)	Supported (via SM)	Supported (via SM)	Supported (via SM)
Avaya Aura Contact Center 6.0	Supported [8] (AML now; SIP in 1Q11)	Supported (AML now; SIP in 1Q11)	Supported (AML now; SIP in 1Q11)	Supported (AML now; SIP in 1Q11)
Avaya One-X Communicator 6.0	Supported [8] – 1Q11	Supported – 1Q11	Supported – 1Q11	Supported – 1Q11
Avaya Aura Presence Server 6.1	Supported [8] (via SM) – 1Q11	Supported (via SM) – 1Q11	Supported (via SM) – 1Q11	Supported (via SM) – 1Q11
Avaya Aura Communication Manager 6.0.1	Supported (via SM) [8]	Supported (via SM)	Supported (via SM)	Supported (via SM)
Avaya Aura Session Manager 6.1	Supported [8]	Supported	Supported	Supported
Avaya Aura System Manager 6.1	Supported [8]	Supported	Supported	Supported
Avaya Aura SBC 6.0	Supported [8] (via SM) – 1Q11	Supported (via SM) – 1Q11	Supported (via SM) – 1Q11	Supported (via SM) – 1Q11
Avaya Voice Portal 5.1	Supported [8] (via SM) – 1Q11	Supported (via SM) – 1Q11	Supported (via SM) – 1Q11	Supported (via SM) – 1Q11
Avaya Aura Collaboration Server	Supported [8] – 1Q11	Supported – 1Q11	Supported – 1Q11	Supported – 1Q11
Avaya Aura Mid-Size Enterprise Solution	Supported [8] – 1Q11	Supported – 1Q11	Supported – 1Q11	Supported – 1Q11

Supported 1: Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit. In local mode, this application is not in service.

Supported 2: Support of Branch Office IP users via Main Office only (Normal mode). HW not supported directly on Branch Office unit.

Limited Support 7: Interworking products with different Life Cycle status have support defined by their respective product status. Avaya has full intention that these interwork together however no corrective content (Patches, SU's or Maintenance Release) activity will be expanded on Manufactured Discontinued products, except at the sole discretion of Nortel.

Supported 8 Supported for CS 1000M SG/MG

Supported on Main 1: These applications are associated with the management of the entire system.

Supported on Main 2: These Voice mail applications are associated with the entire system.

Supported on Main 3: These Call Center applications are associated with the entire system.

All dates are Calendar Year.

Microsoft Exchange 2010 Unified Messaging is not supported at this time – open action on Microsoft to engage for compatibility testing via DevConnect to allow support of same.

Auxiliary Application Compatibility Matrix, Gateways

Chart Key:

Updated from R7.0

New item

Auxiliary Processors						
	CS 1000E Media Gateway (MG 1000E)	Branch Media Gateway	CS 1000E SIP Media Gateway	Survivable SIP Branch	Survivable Remote Gateway	Survivable Remote Gateway
	CS 1000E Survivable Media Gateway	MG 1000B	CS 1000E Survivable SIP Media Gateway	Secure Router 2330/4134	SRG 200/400 R6.0	SRG 50 R6.0
		(Branch Office)				
		Equipped with CPPM,CPMGx	*Note: TDM is limited on this gateway*			
Attendant Console						
PC Console Interface Unit	Supported	Supported	Not supported	Not supported	Not supported	Not supported
Meridian Attendant PC software	Supported	Supported	Not supported	Not supported	Not supported	Not supported
M2250 Attendant Console	Supported	Supported	Not supported	Not supported	Not supported	Not supported
3260 IP Attendant Console	Supported	Supported on Main [4]	Supported	Supported on Main [4]	Supported on Main [4]	Supported on Main [4]
M2016S Digital Secure Sets						
M2016S Secure Set (NA Only)	Supported	Supported	Not supported	Not supported	Not supported	Not supported
M2000 Series Sets						
M2006	Limited Support[7]	Limited Support[7]	Not supported	Not supported	Not supported	Not supported
M2008	Limited Support[7]	Limited Support[7]	Not supported	Not supported	Not supported	Not supported
M2216	Limited Support[7]	Limited Support[7]	Not supported	Not supported	Not supported	Not supported
M2616	Limited Support[7]	Limited Support[7]	Not supported	Not supported	Not supported	Not supported
M3900 Sets						
M39xx	Supported	Supported	Not supported	Not supported	Not supported	Not supported
System Management						
Optivity Telephony Manager	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
Telephony Manager	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
Subscriber Manager	Supported on Main [1] (2.2)	Supported on Main [1] (2.2)	Supported on Main [1] (2.2)	Supported on Main [1] (2.2)	Not supported	Not supported

Element Manager	Supported on Main (7.x) [1]	Supported on Main (7.x) [1]	Supported on Main (7.x) [1]	Supported on Main (7.x) [1]	Not supported	Not supported
Patch Manager	Supported on Main [1]	Supported on Main [1]	Supported on Main [1]	Supported on Main [1]	Not supported	Not supported
Deployment Manager	Supported on Main [1]	Supported on Main [1]	Supported on Main [1]	Supported on Main [1]	Not supported	Not supported
WEB Services	Supported on Main [1]	Supported on Main [1]	Supported on Main [1]	Supported on Main [1]	Not supported	Not supported
Base Manager	Supported on Main [1]	Supported on Main [1]	Supported on Main [1]	Supported on Main [1]	Not supported	Not supported
Security Framework	Supported on Main [1]	Supported on Main [1]	Supported on Main [1]	Supported on Main [1]	Not supported	Not supported
Visualization Performance and Fault Manager (VPFM)	Supported on Main [1] (2.x*)	Supported on Main [1] (2.x*)	Supported on Main [1] (2.x*)	Supported on Main [1] (2.x*)	Not supported	Not supported
Proactive Network Manager Tool	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Messaging						
CallPilot (MGATE)	Supported (5.0)	Supported (5.0)	Supported on Main [2] (5.0)	Supported on Main [2] (5.0)	Supported on Main [2] (5.0)	Supported on Main [2] (5.0)
HMS 400 (SIP)	Supported (2.0)	Supported (2.0)	Supported on Main [2] (2.0)	Supported on Main [2] (2.0)	Supported on Main [2] (2.0)	Supported on Main [2] (2.0)
CallPilot Mini	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Meridian Mail Modular Option EC	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Meridian Mail Enhanced Card	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
UM2000	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Companion						
Companion	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
IP Clients						
Nortel Integrated DECT	Supported	Supported	Not supported	Not Supported	Not Supported	Not supported
SIP DECT	Supported (4.2 or later)	Supported (4.2 or later)	Not supported	Not Supported	Not Supported	Not supported
WLAN Handset 2210 / 2211	Supported (97.072)	Supported (97.072)	Not supported	Not Supported	Supported (97.072)	Supported (97.072)
WLAN Handset 2212	Supported (97.072)	Supported (97.072)	Not supported	Not Supported	Supported (97.072)	Supported (97.072)
WLAN IP Telephony Manager 2245 500-user	Supported (174.037 or later)	Supported (174.037 or later)	Not supported	Not Supported	Supported (174.037 or later)	Supported (174.037 or later)
WLAN IP Telephony Manager 2245 10-user	Supported (174.037 or later)	Supported (174.037 or later)	Not supported	Not Supported	Supported (174.037 or later)	Supported (174.037 or later)
WLAN IP Telephony Manager 2245 20-user	Supported (174.037 or later)	Supported (174.037 or later)	Not supported	Not Supported	Supported (174.037 or later)	Supported (174.037 or later)
WLAN Application Gateway 2246	Supported (82.019)	Supported (82.019)	Not supported	Not Supported	Supported (82.019)	Supported (82.019)
WLAN Handset 6120, 6140	Supported (115.025 or later)	Supported (115.025 or later)	Not supported	Not Supported	Not Supported	Supported (115.025 or later)

IP Phone 2001 (Phase 2)	Supported (3.4)	Supported (3.4)	Supported (3.4)	Not Supported	Supported (3.4)	Supported (3.4)
IP Phone 2002 (Phase 1)	Limited Support	Limited Support	Limited Support	Not Supported	Limited Support	Limited Support
IP Phone 2002 (Phase 2)	Supported (3.4)	Supported (3.4)	Supported (3.4)	Not Supported	Supported (3.4)	Supported (3.4)
IP Phone 2004 (Phase 0)	Limited Support	Limited Support	Limited Support	Not Supported	Limited Support	Limited Support
IP Phone 2004 (Phase 1)	Limited Support	Limited Support	Limited Support	Not Supported	Limited Support	Limited Support
IP Phone 2004 (Phase 2)	Supported (3.4)	Supported (3.4)	Supported (3.4)	Not Supported	Supported (3.4)	Supported (3.4)
IP Phone 2007	Supported (5.0)	Supported (5.0)	Supported (5.0)	Not Supported	Supported (4.2)	Supported (4.2)
IP Softphone 2050	Supported (4.x)	Supported (4.x)	Supported (4.x)	Not Supported	Supported (4.x)	Supported (4.x)
IP Softphone for Windows Mobile	Supported (2.4)	Supported (2.4)	Supported (2.4)	Not Supported	Supported (2.4)	Supported (2.4)
IP Softphone 3456	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
IP Softphone 3457 (Lotus Notes version)	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
IP Audio conference Phone 2033	Supported (S80)	Supported (S80)	Supported (S80)	Not Supported	Supported (S80)	Supported (S80)
IP Phone 1110	Supported (5.0)	Supported (5.0)	Supported (5.0)	Not Supported	Not Supported	Not Supported
IP Phone 1120E	Supported (5.0)	Supported (5.0)	Supported (5.0)	Not Supported	Supported (4.2)	Supported (4.2)
IP Phone 1140E	Supported (5.0)	Supported (5.0)	Supported (5.0)	Not Supported	Supported (4.2)	Supported (4.2)
IP Phone 1150E	Supported (5.0)	Supported (5.0)	Supported (5.0)	Not Supported	Not Supported	Not Supported
IP Phone 1165E	Supported (5.0)	Supported (5.0)	Supported (5.0)	Not supported	Not supported	Not supported
IP Phone 1200 Series (1210/1220/1230 and 12 Key LCD Expansion Module)	Supported (5.0)	Supported (5.0)	Supported (5.0)	Not supported	Supported (4.2)	Supported (4.2)
IP Phone 1120/1140/KEM SIP f/w	Supported (4.0)	Supported (4.0)	Supported (4.0)	Supported (4.0)	Not supported	Not supported
NT-LG 1535	Not supported	Not supported	Not supported	Not supported	Unsupported	Unsupported
Application Gateway 1000 & 2000	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Remote Office Portfolio						
Remote Gateway 9115	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Remote Gateway 9150	Not Supported.	Not Supported.	Not Supported.	Not Supported	Not Supported	Not Supported
Mini Carrier Remote	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Carrier Remote	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Fiber Remote Single & Multi IPE	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
LineSide T1/E1 (Needs supported Clock reference)	Supported (4.0)	Supported (4.0)	Not Supported	Not Supported	Not Supported	Not Supported

Enhanced LineSide E1 (Needs supported Clock reference)	Supported (3.06)	Supported (3.06)	Not Supported	Not Supported	Not Supported	Not Supported
Symposium Call Center and CTI Applications						
Symposium TAPI Service Provider	EOL	EOL	EOL	EOL	EOL	EOL
Symposium Agent	EOL	EOL	EOL	EOL	EOL	EOL
Meridian Link Services [MLS]	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11
Symposium Express Call Center [SECC]	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Symposium Call Center Server [SCCS] incl. Symposium Web Client.	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Symposium Web Center Portal [SWCP]	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Contact Center Suite						
Remote Agent Observe	Supported on Main (1.0) [3]	Supported on Main (1.0) [3]	Supported on Main (1.0) [3]	Supported on Main (1.0) [3]	Supported on Main (1.0) [3]	Supported on Main (1.0) [3]
Agent Greeting	Supported on Main (3.0) [3]	Supported on Main (3.0) [3]	Supported on Main (1.0) [3]	Supported on Main (3.0) [3]	Supported on Main (3.0) [3]	Supported on Main (3.0) [3]
Contact Center Manager (CCM) & Meridian Link Services (MLS)	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11
Contact Center Multi-Media (CCMM)	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11
Contact Center Outbound (CCO)	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11
NES Contact Recording (NCR)	Supported on Main [3] (6.5 and 7.0)	Supported on Main [3] (6.5 and 7.0)	Supported on Main [3] (6.5 and 7.0)	Supported on Main [3] (6.5 and 7.0)	Supported on Main [3] (6.5 and 7.0)	Supported on Main [3] (6.5 and 7.0)
NES Quality Monitoring (QM)	Supported on Main [3] (6.5 and 7.0)	Supported on Main [3] (6.5 and 7.0)	Supported on Main [3] (6.5 and 7.0)	Supported on Main [3] (6.5 and 7.0)	Supported on Main [3] (6.5 and 7.0)	Supported on Main [3] (6.5 and 7.0)
NES Workforce Management (WFM)	Supported on Main [3] (7.0)	Supported on Main [3] (7.0)	Supported on Main [3] (7.0)	Supported on Main [3] (7.0)	Supported on Main [3] (7.0)	Supported on Main [3] (7.0)
Communication Control Toolkit (CCT)	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11
IVR Applications						
Periphonics IVR (VPS/is)	Not supported EOL	Not supported EOL	Not supported EOL	Not supported EOL	Not supported EOL	Not supported EOL
Communication Control Toolkit (CCT) for VPS/is and MPS500/1000	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11	Supported on Main [3] (6.0, 7.0) – 1Q11
Multimedia Processing Server (MPS)	Not supported EOL	Not supported EOL	Not supported EOL	Not supported EOL	Not supported EOL	Not supported EOL

100						
Multimedia Processing Server - MPS 500, MPS 1000	Supported on Main [3] (3.0, 3.5)	Supported on Main [3] (3.0, 3.5)	Supported on Main [3] (3.0, 3.5)	Supported on Main [3] (3.0, 3.5)	Supported on Main [3] (3.0, 3.5)	Supported on Main [3] (3.0, 3.5)
ICP	Supported on Main [4] (FP3)	Supported on Main [4] (FP3)	Supported on Main [4] (FP3)	Supported on Main [4] (FP3)	Supported on Main [3] (FP3)	Supported on Main [3] (FP3)
Avaya Aura Offsite Agent	Supported on Main (6.0) [3]	Supported on Main (6.0) [3]	Supported on Main (6.0) [3]	Supported on Main (6.0) [3]	Supported on Main (6.0) [3]	Supported on Main (6.0) [3]
Business Communication Manager						
Business Communications Manager 1000	Not supported EOL	Not supported EOL	Not supported EOL	Not supported EOL	Not supported EOL	Not supported EOL
Business Communications Manager 200/400 (6.0)	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces
Business Communications Manager 50 (6.0)	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces
Business Communications Manager 450 (6.0)	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces
Norstar						
Norstar 3X8-DR5.1	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces
Norstar CICS 7.1	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces
Norstar MICS 7.1	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces
Integrated Portfolio						
Integrated Call Assistant (ICA)	Supported	Supported	Supported on Main [3]	Supported on Main [4]	Supported on Main [4]	Supported on Main [4]
Integrated Conference Bridge (ICB)	Supported (4.3 or later)	Supported (4.3 or later)	Supported on Main (4.3 or later) [4]	Supported on Main (4.3 or later) [4]	Supported on Main (4.3 or later) [4]	Supported on Main (4.3 or later) [4]

Integrated Conference Bridge Pro (ICB Pro)	Supported (4.5 or later)	Supported (4.5 or later)	Supported on Main (4.5 or later) [4]	Supported on Main (4.5 or later) [4]	Supported on Main (4.5 or later) [4]	Supported on Main (4.5 or later) [4]
Integrated Recorded Announcement (IRAN)	Supported (3.0 or later)	Supported (3.0 or later)	Supported (3.0 or later)	Supported (3.0 or later)	Supported (3.0 or later)	Supported (3.0 or later)
Integrated Call Director	Supported on Main [4]	Supported on Main [4]	Supported on Main [4]	Supported on Main [4]	Supported on Main [4]	Supported on Main [4]
Integrated Hospitality Services (HIVS)	Supported on Main [4]	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Other						
IP Trunk	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Multimedia Conferencing (NMC)	Supported on Main (6.0) [4]	Supported on Main (6.0) [4]	Supported on Main (6.0) [4]	Supported on Main (6.0) [4]	Supported on Main (6.0) [4]	Supported on Main (6.0) [4]
Microsoft LCS	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Microsoft OCS 2007, R2	Supported on Main [4] (via SM)	Supported on Main [4] (via SM)	Supported on Main [4] (via SM)	Supported on Main [4] (via SM)	Supported on Main [4] (via SM)	Supported on Main [4] (via SM)
Microsoft OCS Lync	Supported via ACE on Main – 1Q11 [4]	Supported via ACE on Main – 1Q11 [4]	Supported via ACE on Main – 1Q11 [4]	Supported via ACE on Main – 1Q11 [4]	Supported via ACE on Main – 1Q11 [4]	Supported via ACE on Main – 1Q11 [4]
Microsoft Exchange 2007 UM	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect
IBM Sametime	Supported on Main[4] (via ACE)	Supported on Main[4] (via ACE)	Supported on Main[4] (via ACE)	Supported on Main[4] (via ACE)	Supported on Main[4] (via ACE)	Supported on Main[4] (via ACE)
SMC2450	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
ACE	Supported on Main[4] (2.3)	Supported on Main[4] (2.3)	Supported on Main[4] (2.3)	Supported on Main[4] (2.3)	Supported on Main[4] (2.3)	Supported on Main[4] (2.3)
Mobile Communications 3100	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Multimedia Call Server						
AS 5300	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
MCS 5100	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
SCS	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
CS 2x00						
Genband C20 (formerly CS2000)	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect
CS 2100 (SE13)	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces	Not Applicable, can be part of network via standard trunking interfaces
DevConnect						

AudioCodes Mediant 1000/2000	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect
Quintum Tenor AS Series	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect
T-Metrics Attendant console	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect
IpDialog SIP clients	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
Teledex SIP clients	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect
Telematrix SIP clients	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect	Only supported if certified by DevConnect
3RD Party						
Cisco SIP sets	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Cisco Gateway	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
Cisco Call Manager	Supported (6.0) (SIP,QSIG)	Supported (6.0) (SIP,QSIG)	Supported (6.0) (SIP,QSIG)	Not Supported	Not Supported	Not Supported
CS 1000 Applications						
Media Services Controller	Supported on Main [1]	Supported on Main [1]	Supported on Main [1]	Not Supported	Not Supported	Not Supported
TPS	Supported	Supported	Supported	Supported on Main [4]	Supported on Main [4]	Supported on Main [4]
SIP Gateway (Vtrks)	Supported	Supported	Supported	Supported on Main [4]	Supported on Main [4]	Supported on Main [4]
H.323 Gateway (Vtrks)	Supported	Supported	Supported	Supported on Main [4]	Supported on Main [4]	Supported on Main [4]
PD/RL/CL	Supported	Supported	Supported	Supported on Main [4]	Supported on Main [4]	Supported on Main [4]
Unicode Name Directory (needs Subscriber Manager)	Supported	Supported	Supported	Supported on Main [4]	Supported on Main [4]	Supported on Main [4]
SIP Line Gateway	Supported	Supported	Supported	Supported on Main [4]	Supported on Main [4]	Supported on Main [4]
Gatekeeper	Supported	Supported	Supported	Supported on Main [4]	Supported on Main [4]	Supported on Main [4]
NRS/NRSM	Supported	Supported	Supported	Supported on Main [4]	Supported on Main [4]	Supported on Main [4]
MAS / Media Server	Supported (7.5, 7.0) [4]	Supported (7.5, 7.0) [4]	Supported (7.5, 7.0) [4]	Supported on Main (7.5, 7.0) [4]	Supported on Main (7.5, 7.0) [4]	Supported on Main (7.5, 7.0) [4]
SIP-Trunk Bridge	Supported on Main [4]	Supported on Main [4]	Supported on Main [4]	Supported on Main [4]	Supported on Main [4]	Supported on Main [4]
Avaya Aura Applications						
Avaya Modular Messaging 5.2	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11
Avaya Aura Messaging 6.0	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11

Avaya Meeting Exchange 5.2	Supported (via SM) on Main [4]	Supported (via SM) on Main [4]	Supported (via SM) on Main [4]	Supported (via SM) on Main [4]	Supported (via SM) on Main [4]	Supported (via SM) on Main [4]
Avaya Aura Conferencing 6.0	Supported (via SM) on Main [4]	Supported (via SM) on Main [4]	Supported (via SM) on Main [4]	Supported (via SM) on Main [4]	Supported (via SM) on Main [4]	Supported (via SM) on Main [4]
Avaya Aura Contact Center 6.0	Supported on Main [3] (AML now; SIP in 1Q11)	Supported on Main [3] (AML now; SIP in 1Q11)	Supported on Main [3] (AML now; SIP in 1Q11)	Supported on Main [3] (AML now; SIP in 1Q11)	Supported on Main [3] (AML now; SIP in 1Q11)	Supported on Main [3] (AML now; SIP in 1Q11)
Avaya One-X Communicator 6.0	Supported – 1Q11	Supported – 1Q11	Supported – 1Q11	Not Supported	Not Supported	Not Supported
Avaya Aura Presence Server 6.1	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11
Avaya Aura Communication Manager 6.0.1	Supported (via SM)	Supported (via SM)	Supported (via SM)	Supported (via SM)	Supported (via SM)	Supported (via SM)
Avaya Aura Session Manager 6.1	Supported	Supported	Supported	Supported	Supported	Supported
Avaya Aura System Manager 6.1	Supported	Supported	Supported	Not Supported	Not Supported	Not Supported
Avaya Aura SBC 6.0	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11
Avaya Voice Portal 5.1	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11	Supported (via SM) on Main [4] – 1Q11
Avaya Aura Collaboration Server	Supported on Main [4] – 1Q11	Supported on Main [4] – 1Q11	Supported on Main [4] – 1Q11	Not Supported	Not Supported	Not Supported
Avaya Aura Mid-Size Enterprise Solution	Supported on Main [4] – 1Q11	Supported on Main [4] – 1Q11	Supported on Main [4] – 1Q11	Not Supported	Not Supported	Not Supported

Supported 1: Support of SRG IP users via Main Office only (Normal mode). HW not supported directly on SRG unit. In local mode, this application is not in service.

Supported 2: Support of Branch Office IP users via Main Office only (Normal mode). HW not supported directly on Branch Office unit.

Supported on Main 1: These applications are associated with the management of the entire system.

Supported on Main 2: These Voice mail applications are associated with the entire system.

Supported on Main 3: These Call Center applications are associated with the entire system.

Supported on Main 4: This is a network application associated with the entire system.

Limited Support 7: Interworking products with different Life Cycle status have support defined by their respective product status. Nortel has full intention that these interwork together however no corrective content (Patches, SU's or Maintenance Release) activity will be expanded on Manufactured Discontinued products, except at the sole discretion of Nortel.

Supported 8 Supported for CS 1000M SG/MG

![Avaya logo]

SOFTWARE LISTING

Do not attempt to operate the system with the initial/previous loads of software, the correct software versions are listed below:

Unified Communications Manager: 7.50.17 version (02.20.0009.00)

Call Server:	X210750 **Q**
Linux Base & Applications:	7.50.17
SIP Trunk Bridge:	7.50.17
IP Line Media Cards :	7.50.17
PSWV:	100
Subscriber Manager:	2.2.1-01
IP Media (AMS Element):	7.0 (7.0.0.236)

MC32S	7.50.17
MC32S Gold	6.00.15
MC32S Boot	6.00.15

Digital Set Firmware :
3902: S/W VERSION NUMBERS: 84
3903: S/W VERSION NUMBERS: 91
3904: S/W VERSION NUMBERS: 94
3905: S/W VERSION NUMBERS: 94

IP Clients:

FW ID	Firmware	Model
0602	B76	IP Phone 2004 Phase 0/1
0603	B76	IP Phone 2002 Phase 1
0604	DCN	IP Phone 2004 Phase 2
0x02	DCN	IP Phone 2002 Phase 2
0x02	DCN	IP Phone 2001 Phase 2
*2310	S80	IP Audio Conference Phone 2033.
*0621	C8A	IP Phone 2007 Phase 2
*0623	C8A	IP Phone 1110
*0624	C8A	IP Phone 1120E
*0625	C8A	IP Phone 1140E
*0627	C8A	IP Phone 1150E
*0x26	C8A	IP Phone 1165E
*0x2a	C8A	IP Phone 1210
*0x2a	C8A	IP Phone 1220
*0x2a	C8A	IP Phone 1230

Note:

1. B76 is at End of life. Phase 0 and Phase 1 IP phones are not supported in Release 7.5. Note: Phase 0 and

Phase 1 registration to the LTPS is not blocked

IP Softphone 2050 (Release 4.01)	4.01 (build 041)
Teledex ND4210S	1.12.02
Teledex ND2210S	1.12.02
IP Dialog	SIPTone TM v1.5.0 (build 102)
SIP Firmware for IP Phone 1120E	4.00.04
& IP Phone 1140E	

FIJI Loadware = 29

Media Gateway 1000 PRI Gateway (HD PRI) - The MGP version should be Version 1.01.32 to be interoperable with Release 7.5

LOADWARE	X21 0750Q PSWV100
LCRI	LOADAA02
XNET	LOADAC23
XPEC	LOADAC43
FNET	LOADAA07
FPEC	LOADAA08
MSDL	LOADAJ73
ASYN (SDI)	LOADAH51
DCH1 (DCH)	LOADAA72
MLNK (AML)	LOADAK81
BRIL	LOADAK83
BRIT	LOADAK82
MISP	LOADAJ71
MPHA (MPH)	LOADAH51
BRSC	LOADAJ71
BBRI	LOADAH54
PUPE	LOADAA87

(PRIE)	
BRIE	LOADAK89
ISIG	LOADAA33
SWE1	LOADBA53
UKG1	LOADBA51
AUS1	LOADBA49
DEN1	LOADBA48
FIN1	LOADBA49
GER1	LOADBA54
ITA1	LOADAA54
NOR1	LOADBA49
POR1	LOADBA49
DUT1	LOADBA50
EIR1	LOADBA49
SWI1	LOADBA53
NET1	LOADBA48
FRA1	LOADBA52
CIS1	LOADBA48
ETSI	LOADBA48
SPA1	LOADBA51
BEL1	LOADBA49

LOADWARE	X21 0700Q PSWV100
E403	LOADBA07
N403	LOADBA05
JTTC	LOADAC08
TCNZ	LOADAA13
AUBR	LOADAA14
AUPR	LOADAA04
HKBR	LOADAA06
HKPR	LOADAA08
SING	LOADAA15
THAI	LOADAA07
NI02	LOADAA26
T1IS	LOADAA10
T1ES	LOADAA09
ESGF	LOADAC30
ISGF	LOADAC31

TEGF (ESGFTI)	LOADAC29
TIGF (ISGFTI)	LOADAC31
INDO	LOADAA06
JAPN	LOADAA16
MSIA	LOADAA04
CHNA	LOADAA04
INDI	LOADAA03
PHLP	LOADAA02
TAIW	LOADAA03
EAUS	LOADAA02
EGF4	LOADAC14
DCH3	LOADAA10
PUP3	LOADAA14
T1E1	LOADAA19
DITI	LOADAA40
CLKC[NTRB53]	LOADAA20

MGC Loadware	X21 0750Q PSWV100
CSP	MGCCCD01
MSP	MGCMAB01
APP	MGCABA07
FPGA	MGCFAA18
BOOTCODE	MGCBBA07
DSP1	AB03
DSP2	AB03
DSP3	AB03
DSP4	AB01
DSP5	AA01
UDTC	AA42

OCS 2007   Rls 2
MCM server: 4.50.0.5

Avaya Aura® Software Versions:

Please refer to the specific Solution Offer Definition documentation for Avaya Aura® Release 6.1.

SOFTWARE CONVERSION

Option 11C Cabinet

Automatic conversion is supported directly from an Option 11C Cabinet Releases: 23, 24, 25, 2.0, 3.0, 4.0, 4.5, 5.0, 5.5, 6.0, and 7.0.   Given Option 11C Cabinet is not available in Release 7.5 it must be converted to a CS1000E system.   The conversion will require an upgrade to a CPPM, CPDC processor and MGC, or CPMG as the SSC processors are not supported on IP capable systems.

Option 11C Chassis

Automatic conversion is supported directly from an Option 11C Chassis Releases: 23, 24, 25, 2.0, 3.0, 4.0, 4.5, 5.0, 5.5, 6.0 and 7.0. Given Option 11C Chassis is not available in Release 7.5, it must be converted to a CS1000E system. Conversion will require an upgrade to a CPPM, CPDC processor and MGC, or CPMG as the SSC processors are not supported on IP capable systems.

Communication Server 1000M Chassis/Cabinet

Conversion to Communication Server 1000 Release 7.0 is only supported if the Call Processor is updated to CPPM and CPDC.   Automatic conversion is supported directly to Communication Server 1000E Chassis/Cabinet Release 7.5 from release 3.0, 4.0 4.5, 5.0, 5.5, 6.0 and 7.0.

Communication Server 1000S

Conversion to Communication Server 1000 Release 7.5 is only supported if the Call Processor is updated to CPPM, CPDC, or CPMG. When updating the processor the system will become a CS1000E. Automatic conversion is supported directly to Communication Server 1000E Release 7.0 from release 1.0, 1.1, 2.0, 3.0, 4.0, 4.5, 5.0, 5.5, 6.0 and 7.0.

Communication Server 1000M Single Group/Multi Group

Conversion to Communication Server 1000 Release 7.5 is supported with large system platforms equipped with Pentium based processors only (Intel Pentium IV). Automatic conversion is supported directly to Communication Server 1000M Release 7.5 from release 3.0, 4.0, 4.5, 5.0, 5.5, 6.0 and 7.0.

Communication 1000E

Automatic conversion is supported directly to Communication Server 1000E Release 7.5 from release 4.0, 4.5, 5.0, 5.5, 6.0 and 7.0.

Option 61C, 81C

Conversion to Communication Server 1000 Release 7.5 is supported with large system platforms equipped with Pentium based processors only (Intel Pentium IV). Automatic conversion is supported directly to Communication Server 1000M Release 7.5 from release 23, 24, 25, 2.0, 3.0, 4.0, 4.5, 5.0, 5.5, 6.0 and 7.0.

If the system is running pre-release 23 software or the source platform is Meridian Opt21/21E, ST/STE, 51, 61, 71, 81, NT, XT, the database must be sent to Avaya for conversion.

SOFTWARE DOWNLOADS

The software download website is designed for Avaya Partners and associated technical support personnel. In exceptional circumstances, end customers will be granted access to this site.

Software Download Steps

Avaya has adopted the Common Registration System (CRS). This provides one user I.D. and password to access the service websites such as the Software Download and Keycode Retrieval websites.

Go to http://www.avaya.com and select Support or http://www.support.avaya.com

You will be able to view software on this page as a Guest only. To access the software as an authorized user, you must select "Sign in" menu and apply your user I.D. and password.

Select from the items on the left. To search for a product select Products then start entering the name of the product you are searching for (or select A-Z List). As you type the products that match your entry will start to appear. From this list make your selection. For example entering "communication server" will trigger all entries with "communication server" to appear. You can then make your selection from the list to continue. Alternately you can use the following quick links for the Communication Server 1000 platforms:

- Communication Server 1000E
- https://support.avaya.com/css/appmanager/css/support/Downloads/P0714#wlp_Downloads_Page

- Communication Server 1000M
-
  https://support.avaya.com/css/appmanager/css/support/Downloads/P0715#wlp_Downloads_Page

- MG1000E/1000B Media Gateway
- http://support.avaya.com/css/appmanager/public/support/Downloads/P0878

Find the software file required within the applicable product chosen (search by release may be available for some products). Click on your software selection. Then click on the executable or image file and/or applicable documentation file and save to your desktop.

ENGINEERING CONSIDERATIONS

Communication Server 1000 System Capacity

Since IP and TDM telephony consume differing amounts of processing power, the total number of sets that a particular platform can support will depend on the type of traffic as well as the physical capacity and applications of a specific configuration. The following table summarizes the capacities of CS 1000M and CS 1000E systems. Values in each cell indicate the total number of sets that can be supported in a particular configuration. These values are calculated from the point of view of call server processing capacity, not from the point of view of physical card slot capacity. Please note that the values in each cell are exclusive, not additive.

See the "Planning & Engineering" NTP for full details of capacity limits.

Communication Server 1000 systems

The numbers of terminals that can be connected to CS 1000 systems are given below. These all assume that a Signaling Server is part of the system configuration. For CPPM Co-Res it is limited to 5 Media Gateways and 16 PRI (T1/E1). These are subject to standard engineering rules such as CPU capacity, but nevertheless represent typical configurations that can be engineered.

System	Pure TDM	Pure IP (UNIStim) Access to PTSN	Pure IP (SipLine) Access to PTSN	Mixed IP and TDM	Rationale
CS 1000M Single Group **CP-PIV**	2,000	5,000	2,500	1,000 TDM 2,000 IP	IP/TDM capacities limited by shelf space
CS 1000M Multi Group **CP-PIV**	15,000	15,000	7,500	15,000	IP/TDM capacities limited by shelf space
CS 1000E **CP-PIV**	8,000	22,500	11,000	8,000 TDM (UNIStim + 2x(SipN+Sip3)) <= 22,500	IP/TDM capacities limited by TN space
CS 1000E **CP-PM**	8,000	40,000 (22,500 per nodes)	20,000	8,000 TDM (UNIStim + 2x(SipN+Sip3)) <= 22,500	IP/TDM capacities limited by TN space

CS 1000E **CP-PM (IP only)**	n/a	40,000 (PSTN via Vtrk)	2x(SipN+Sip3) <= 40,000	n/a	IP/TDM capacities limited by TN space. Requires Vtrk for all trunking requirements.
CS1000E TDM (CP-PM)	800	n/a	n/a	n/a	TDM only, no IP sets or Virtual trunks
CS1000E CoRes	800	1000	(SipN+Sip3) <= 400	800 TDM (UNIStim + SipN+Sip3 <= 1000)	
CS1000E CoRes – CPMG 128	800	700	(SipN+Sip3) <= 400	800 TDM (UNIStim + SipN+Sip3 <= 700)	

- Require using Signaling Servers for TPS for IP sets.
- IP/TDM capacities limited by shelf space.
- IP/TDM capacities limited by TN space.
- Although only one ISM is used for SIP Lines, each SIP line consumes two TNs, a TN for SIPL virtual trunk and a TN for SIPL UEXT.

Signaling Server Limits – Co-res Call Server and Signaling Server

Limit per Application	CP-PM	CPMG 128	COTS2	CPDC
IP sets per SS	1,000	700	1,000	1,000
Virtual Trunks	(H323 + SIP <=400)	(H323 + SIP <=400)	(H323 + SIP <=400)	(H323 + SIP <=400)
PD	1000	700	1000	1000
Sip Lines	400	400	400	400
NRS GW endpoints	5 GW	5 GW	5 GW	5 GW
ACD Agents	200	200	200	200
TDM Set endpoints Note: up to 5 IMPG	800 sets 16 PRI (T1/E1)	800 sets 16 PRI (T1/E1)	800 sets 16 PRI (T1/E1)	800 sets 16 PRI (T1/E1)
MSC IPConf sessions	400	400	400	400
MSC IPTone sessions	400	400	400	400
MSC IPMusic	400	400	400	400

sessions				
MSC IPRAN sessions	400	400	400	400
MSC IPAttn sessions	400	400	400	400
Total MSC sessions	400	400	400	400
Total call rate shared by all applications	10Kcph (CS+ NRS + MSC)	8Kcph (CS+ NRS + MSC)	20Kcph (CS+ NRS + MSC)	15Kcph (CS+ NRS + MSC)

Signaling Server Limits – Co-res Call Server and Signaling Server

Limit per Application	CPPM	CPDC	CPMG 128
IP sets per SS	N/A	N/A	N/A
Virtual Trunks	N/A	N/A	N/A
PD	N/A	N/A	N/A
Sip Lines	N/A	N/A	N/A
NRS GW endpoints	N/A	N/A	N/A
ACD Agents	200	200	200
TDM Set endpoints Note: up to 5 IMPG	800 sets 16 PRI (T1/E1)	800 sets 16 PRI (T1/E1)	800 sets 16 PRI (T1/E1)
MSC IPConf sessions	N/A	N/A	N/A
MSC IPTone sessions	N/A	N/A	N/A
MSC IPMusic sessions	N/A	N/A	N/A
MSC IPRAN sessions	N/A	N/A	N/A
MSC IPAttn sessions	N/A	N/A	N/A
Total MSC sessions	N/A	N/A	N/A
Total call rate shared by all applications	10Kcph (CS+ NRS + MSC)	10Kcph (CS+ NRS + MSC)	10Kcph (CS+ NRS + MSC)

Signaling Server Limits – CPPM Co-Res Signaling Server only

Application	CPPM	COTS IBM x306M HP DL320	COTS IBM 3350 Dell R300	CPDC
TPS	IP sets=1500	IP sets=2000	IP sets=3000	2000
Virtual GW	H323 trunks=800 or SIP Trunks=800 or H323+SIP<=800	H323 trunks=1000 or SIP Trunks=1000 or H323+SIP<=1000	H323 trunks=1200 or SIP Trunks=1200 or H323+SIP<=2000	H323 trunks=1000 or SIP Trunks=1000 or H323+SIP<=1000
Personal Directory	1500	2000	3000	2000
Unicode Name	2000	3000	5000	2000

Directory				
NRS Gateway Endpoints	EP=100	EP=100	EP=100	EP=100
NRE	Entries = 1000	Entries = 1000	Entries = 1000	Entries = 1000
MSC IPConf sessions	800	1000	1000	1000
MSC IPTone sessions	800	1000	1000	1000
MSC IPMusic sessions	800	1000	1000	1000
MSC IPRAN sessions	800	1000	1000	1000
MSC IPAttn sessions	256	256	256	256
Total MSC sessions	1000	1000	1000	1000
Call rate	**15K shared**	**20K shared**	**30K shared**	**20K shared**

Signaling Server Limits – Standalone

Limit per Application	CPPM	COTS IBM x306M HP DL320	COTS IBM 3350 Dell R300	CPDC
IP sets per SS Rated call capacity	5000 40K cph	5000 60K cph	5000 80K cph	5000 80K cph
H323 Vtrks per SS Rated call capacity	1200 40K cph	1200 60K cph	1200 80K cph	1200 60K cph
SIP Vtrks per SS Rated call capacity	1800 40K cph	1800 60K cph	3700 120K cph	3700 120K cph
PD/RL/CL Rated call capacity	15000 60K cph	22500 90K cph	40000 180K cph	22500 90K cph
SIP Lines Rated call capacity	1800 40K cph	1800 60K cph	3700 120K cph	3700 120K cph
MAS Sessions	N/A	N/A	800 IBM 3350 700 Del R300	240
MSC IPConf sessions	1920	1920	1920	1920
MSC IPTone sessions	1000	1000	4000	2 GB = 1000 4 GB = 4000
MSC IPMusic sessions	1000	1000	4000	2 GB = 1000 4 GB = 4000
MSC IPRAN sessions	1000	1000	4000	2 GB = 1000 4 GB = 4000
MSC IPAttn sessions	256	256	256	256
Total MSC sessions	4000	4000	4000	4000
Redirect UDP EPs Rated call capacity	5000 200K cph	5000 300K cph	6000 500K cph	5000 300K cph
Redirect TCP and/or TLS EPs Rated call capacity	1000 100K cph	1000 200K cph	1000 300K cph	1000 200K cph
Proxy UDP EPs Rated call capacity	5000 50K cph	5000 100K cph	6000 200K cph	5000 100K cph
Proxy TCP and/or	1000	1000	1000	1000

TLS EP Rated call capacity	50K cph	1000K cph	200K cph	100K cph

When provisioning ELC (Extend Local Calls) one additional SIP trunk per endpoint configured is required for this capability above other SIP trunks already configured.

Memory Requirements

CS 1000 Release 7.5 Required Memory Requirements for Pentium CP PIV Processors
Same as release 7.0, 6.0 and 5.5

Flash – NA

DRAM – 512MB

Total – 512MB

CS 1000 Release 7.5 Required Memory Requirements for Pentium CPPM Processors (not including Co-Res)
Flash – NA

DRAM –1GB

Total – 1GB

CS 1000 Release 7.5 Required Memory Requirements for Processors that support Co-Res configurations.
CPMG 128 – 2GB

CPPM – 2GB

CPDC – 2 GB

COTS2 (IBM or Dell) – 4 GB

Signaling Server Memory Requirements, including dedicated to single application or full suite of Signaling Server apps (excludes the Call Server)
CPDC – 2GB

CPDC – 2GB or 4GB when used for MAS based on number of sessions

CPPM – 2 GB

COTS1 (IBM or Dell) – 2 GB

COTS2 (IBM or Dell) – 4 GB

MAS Server Memory Requirements

CPDC – 2GB or 4GB when used for MAS based on number of sessions

COTS2 (IBM or Dell) – 4GB

Co-Resident Signaling Server and Call Server Memory Requirements

CPMG 128 – 2GB

CPPM – 2GB

CPDC – 2 GB

COTS2 (IBM or Dell) – 4 GB

An extra 1 GB memory is available in respective media kits for all new systems and upgrades to CPPM Co-Res and CPPM based Signaling servers.

	Flash	DRAM	total
MG 1000E (MGC)	128 MByte	128 MByte	132 MByte

PRODUCT AND COMMERCIAL OFFER CHANGES WITH CS 1000 RELEASE 7.5 & EC.9.2

Avaya Aura Applications integrated in EC

In order to ensure a single quoting experience with solution level engineering and one sales order, the following key Avaya Aura applications have been added to EC 9.1 with CS 1000, Release 7.5:

- Session Manager 6.1
- System Manager 6.1
- Session Border Controller 6.0
- Conferencing 6.0
- Presence Services 6.1 *(GA 3Q2011 - will be hidden in EC until GA)*
- One-X Communicator Client 6.1 *(Controlled Release in December – GA in 3Q2011)*

The ASD tool is required for any other Avaya Aura applications, such as Messaging, or Communication Manager (CM),etc.

CS 1000 R7.5 Customers with Session Manager

Some key changes have been made to the CS 1000 commercial offer to align with how Session Manager is deployed with Communication Manager (CM):

- When Session Manager is deployed with Communication Manager, the connectivity (SM session) licenses are only charged for if on CM Standard Edition. When the Session Manager is used with CM Enterprise Edition, the Session Manager connectivity (SM session) licenses are not chargeable (except for 3rd party connections).   Please see diagram below for more details.

- Therefore, as of CS 1000, R7.5, Avaya is no longer charging for CS 1000 SIP Access ports or SM sessions with CS 1000 Premium Customers when Session Manager is present in the network or on the EC quote.

- If there is no Session Manager present, CS 1000 SIP Access ports are chargeable with both Enhanced and Premium as per the existing offering.

The following diagram illustrates the current Session Manager Session license/price model:
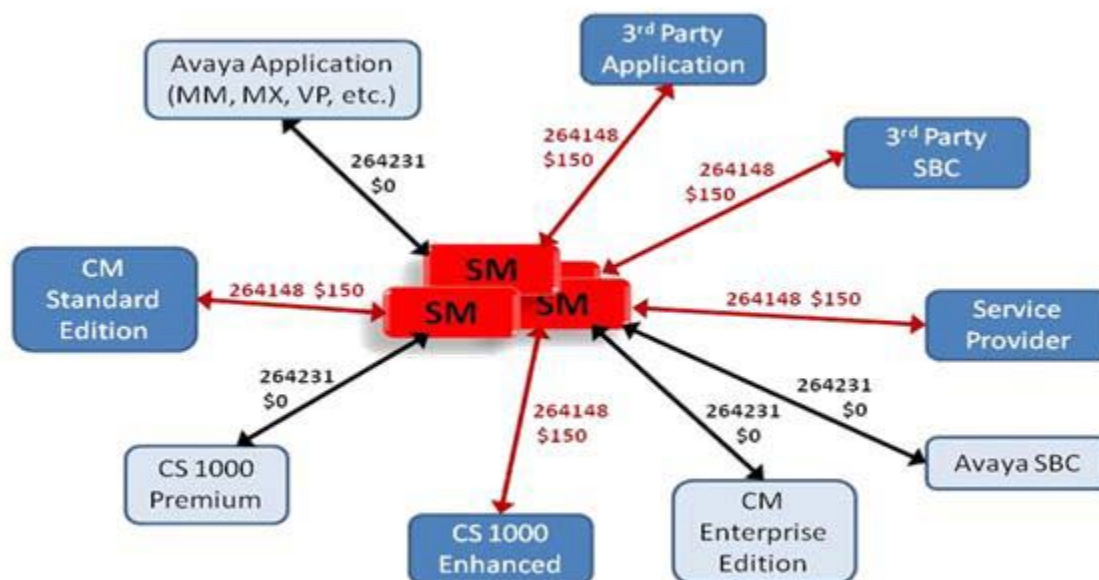
When Session Manager is operating with a CS 1000, both the CS 1000 SIP Access port/trunk license and Session Manager (SM) Session license are required and will be provisioned in EC. Only 1 license will be chargeable (not both). Furthermore, for CS 1000 R7.5 customers on Premium software (with a Session Manager), there will be no charge for SIP Access ports or SM sessions unless for 3rd party connections (i.e. 3rd party PBX/3rd party Applications/3rd party SBC/Carrier) For CS1K customers on Enhanced software, they will be charged standard price for the SM sessions.

For customers upgrading to CS1000, R7.5, for each existing CS 1000 SIP Access port, EC will provision an equivalent Session Manager session license at no charge as they already paid for this SIP trunk connection. For any new SIP trunks that need to be purchased, the rules in the above paragraph apply. The following table explains when the SIP Trunk licenses are chargeable versus an entitlement:

Scenario	CS 1000 SIP Access Ports	Avaya Aura Session Manager Session Licenses
CS 1000 7.5 <u>Enhanced</u> with Avaya Aura Session Manager (for SM connection to CS 1000)	No license charge	Standard license charge
CS 1000 7.5 <u>Premium</u> with Avaya Aura Session Manager (for SM connection to CS 1000)	No license charge	No license charge
with Avaya Applications/Gateway (for SM to Avaya App/Gateway connection)	N/A	No license charge (from SM to Avaya App/Gateway connections)
with 3rd party Applications/PBX (for SM to 3rd Party App/PBX connection)	N/A	Standard license charge (from SM to 3rd party App/ PBX connections)
Existing CS 1000 customers upgrading to R7.5 & adding Avaya Aura Session Manager	N/A (assuming licenses already installed) <u>Note</u>: For any new licenses required, same rules as above apply.	Equivalent number of SM trunk licenses provisioned at no charge <u>Note</u>: For any new licenses required, same rules as above apply.

Avaya Aura Session Manager can provide service to multiple PBX's in the network. In general, the rule is that customers require 2*CS 1000 SIP access ports for the SM trunks as SM is the core of the network and needs to have connections to the CS 1000 as well as to the applications and gateways. In addition, for the new Extended local call feature, which enables Session Manager application sequencing for local CS 1000 calls, SM trunks are also required. See diagram below for illustration of a CS 1000 with a Session Manager:
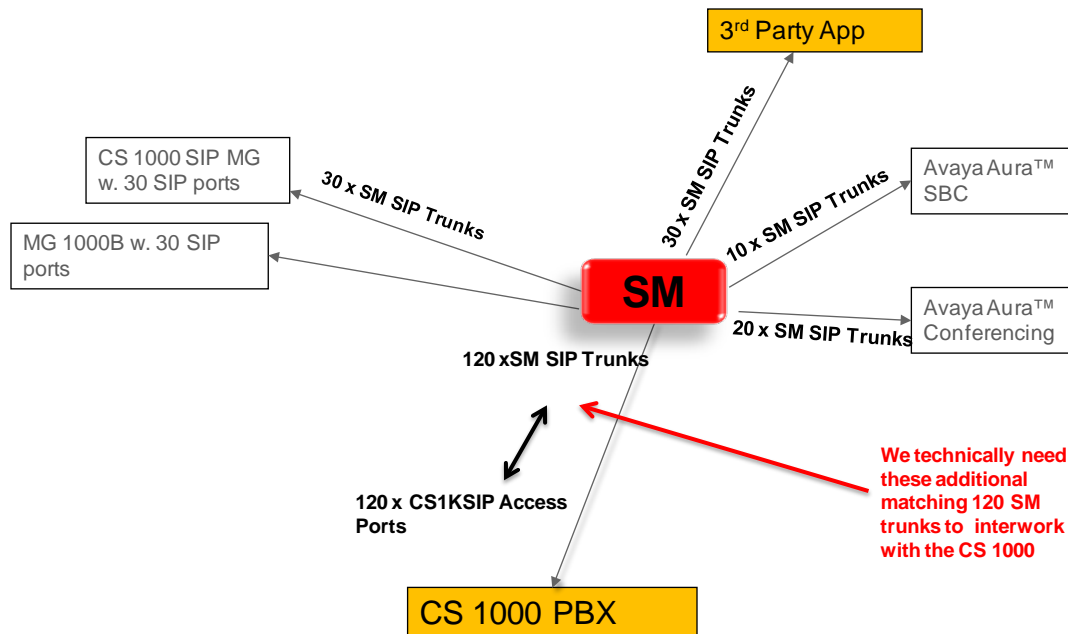
- Avaya Aura Conferencing needs Session Manager (SM) session licenses to match the number of Conference ports to connect to CS 1000 via SM (plus SM sessions for the SM to the Conferencing application connection).
- SBC needs SM sessions to match the number of concurrent sessions to connect to CS 1000 via SM (plus SM sessions from SM to the SBC application connection).
- Aura Presence Services does not need SM Trunks, but needs SIP Converged Desktops licenses on the CS 1000 (which will be no charge).
- System Manager is required to configure the Session Manager (but has no licensing / port requirements).
- The One-X Communicator client needs SIPN Users on the CS 1000, plus the client license referenced later in this document..

In the example above, Session Manager will need to have SM session licenses provisioned both for the connections from the Session Manager to the applications/gateways, and from the Session Manager to the CS 1000 PBX. Therefore, EC would provision **240 SM sessions**, and **120 CS 1000 SIP Access ports** in total.

The pricing of these licenses depends on whether customer is on Enhanced and Premium:

CS 1000 Enhanced Software Example – General rule for Enhanced software: Charge for SIP trunks. Price calculation: (120 SM sessions for CS1K connection **NTL264148** R6.x SIP CONNECTION LICENSE * $150 MSRP) + (30 SM session for 3rd party apps: **NTL264148** R6.x SIP CONNECTION LICENSE * $150 MSRP) = $22,500 MSRP

> **Note**: EC will also provision remaining 90 SM sessions at no charge since there is no charge for SIP connections between the Session Manager and any Avaya applications or gateways – (90 * **NTL264231** SM R6.X SIP CONNECTION ENTITLE * $0) - $0.

> **Note 2**: EC will also provision 120 CS1000 SIP Access Ports at no charge: (120 * SIP access ports – no charge **NTE980JC** * $0) = $0

CS 1000 Premium Software Example – General rule for Premium software: No charge for SIP trunks when SM in network, except for 3rd party connections. . Price calculation: (30 SIP Trunks for 3rd party apps: **NTL264148** R6.x SIP CONNECTION LICENSE * $150 MSRP) = $4500

> **Note 1**: EC will also provision remaining 210 SM trunks at no charge since there is no charge for SIP connections when on Premium software: (210 ***NTL264231** SM R6.X SIP CONNECTION ENTITLE * $0) = $0.

> **Note 2**: EC will provision the necessary 120 CS1000 SIP Access Ports at no charge: (120 * SIP access ports – no charge **NTE980JC** * $0) = $0

Updated Session Manager Screen in EC:

Some new questions and updates have recently been made to the Session Manager section in EC:

Session Manager

Session Manager deployed elsewhere in the network	⦿ No ◯ Yes **go ▸**
Session Manager configured with this system	◯ No ⦿ Yes **go ▸**
Session Manager server required at this location	◯ No ⦿ Yes
Server Platform	HP ⌄
Session Manager redundancy required	◯ No ⦿ Yes

Session Manager Sizing	
Calculated SM Sessions for connections to CS 1000	0
Additional SM Sessions for connections from Session Manager to Applications/Gateways/Other PBX	
Calculated value for Avaya Applications	0
Calculated value for Microsoft OCS or Microsoft Exchange 3rd party applications only	0
3rd Party Applications/Gateways/PBX or other CS 1000 Enhanced/CM Standard Edition PBXs	0

The following explains the purpose of the new questions recently added to EC for Session Manager:

Session Manager deployed elsewhere in the network
Select Yes or No. Default is "No."
If Session Manager is already deployed elsewhere on the network (i.e. not on this quote) to service this system, indicate here, as it will impact the treatment of SIP Access port licenses and SM sessions on this system quote. Also, the Session Manager server to service the requirements on this system will need to have sufficient capacity and licensing provisioned via a separate quote.

If yes is selected, an additional question with four inputs is spawned so that Avaya can validate a Session Manager exists in the network:

Provide one of the following:

Session Manager Host ID (MAC Address) – format is a string of six dual numerics separated by colons, for example 20:20:28:81:41:42.

QRN of the quote containing Session Manager – format is a sequence of 3 alpha and 7 numerics, for example AUS0012345

URN containing the Session Manager – format is ten characters using a three letter product prefix with seven numerics following, for example CON8814142

Sales Contract number of Session Manager – format is minimum 6 digits and a maximum of 10 digits - all numeric. The Sales Contract number is the SAP internal order number. This can be retrieved in PLDS by viewing your entitlements for your existing Session Manager.

Session Manager configured with this system
Yes is the default for new systems and for systems upgrading or migrating to Release 7.5 that have greater than zero (>0) SIP Access Port licenses installed; otherwise, the default is No.

This question should have a Yes selected if a Session Manager is being added to this quote, or the user is making an expansion to their existing Session Manager (i.e. adding SM sessions, capacity, etc).

At least one System Manager is required in the network to configure Session Manager.

Calculated SM Sessions for Connections to CS 1000
The read-only field displays the EC-calculated value of Session Manager (SM) Sessions for connections to CS 1000 that provide a 1:1 provisioning. For example, for each SIP access port, EC will provision a SM session. For these SM connections to CS 1000, SM sessions are an entitlement for Premium Service level systems and chargeable for Enhanced.

Total Calculated SM Sessions based on the 5:1 ratio entitlement for Premium Service Level
This read-only field displays the EC-calculated value of Session Manager (SM) sessions based on the 5:1 entitlement ratio for Premium Service Level systems, which is based on the total number of users (i.e. TDM + IP + SIP, etc.) on the system . The 5:1 rule is described as follows: for every 5 CS 1000 Premium users, EC will provision 1 Session Manager session entitlement license. The value displayed in this field will never be lower than the "Calculated SM Sessions for Connections to CS 1000" value. If this value yields a higher number, it will supersede the value calculated in the previous question.

Calculated Value for Avaya Applications/Gateways
This read-only field displays the EC-calculated value of Session Manager (SM) sessions provisioned by EC based on requirements for:

- Avaya applications (Avaya Aura Session Border Controller and Avaya Aura Conferencing) selected to be provisioned on this quote
- MG 1000B, SRG, and SIP MG

This value is specifically for the connection between the SM and the Avaya applications/Gateways (and is always NON-chargeable).

It is in addition to the SM Sessions value provisioned in the "Calculated SM Sessions for Connections to CS 1000" display field.

Calculated value for Microsoft OCS or Microsoft Exchange 3rd party applications only

This read-only field displays the EC-calculated value based on SIP access ports required for these 3rd party applications selected on this quote.

This value is specifically for the connection between the SM and these 3rd party applications (and is always chargeable)

3rd Party Applications/Gateways/PBX or other CS 1000 Enhanced/CM Standard Edition PBXs

This question allows for users to enter the number of additional Session Manager (SM) Sessions required for the system based on interfaces with other 3rd Party Applications/ Gateways/ PBX or other CS 1000 Enhanced, or CM Standard Edition PBXs.

SIP Access Ports are also required for connections to CS 1000. EC will provision an equal number automatically.

Example Continued:
CS 1000 Enhanced Software Example – New System

If we continue with our existing example earlier in this section, the following would be calculated by EC:

Calculated SM Sessions for Connections to CS 1000: 120 (EC provides a SM session for each CS 1000 SIP access port)
Calculated Value for Avaya Applications/Gateways: 90 (SBC + Conferencing + SIP MG + MG 1000B)
Calculated value for Microsoft OCS or Microsoft Exchange 3rd party applications only: 30

EC Provisioning:
120 NTE980JC SIP access ports – no charge
150 (120+30 3rd party) NTL264148 SM R6.X SIP CONNECTION LIC at $150 MSRP
90 NTL264231 SM R6.X SIP CONNECTION LIC ENTITLE at no charge

CS 1000 Premium Software Example – New System

If we continue with our existing example above, the following would be calculated by EC:

Calculated SM Sessions for Connections to CS 1000:   120 (EC provides a SM session for each CS 1000 SIP access port)

Total Calculated SM Sessions based on the 5:1 ratio entitlement for Premium Service Level: 140 (this is based on an example with 700 users.   This value will supersede the value in the previous question above).

Calculated Value for Avaya Applications/Gateways: 90   (SBC + Conferencing + SIP MG + MG 1000B)

Calculated value for Microsoft OCS or Microsoft Exchange 3rd party applications only: 30

EC Provisioning:
120 NTE980JC SIP access ports – no charge
30 NTL264148 SM R6.X SIP CONNECTION LIC at $150 MSRP
230 (140+90) NTL264231 SM R6.X SIP CONNECTION LIC ENTITLE at no charge

Note: if 5:1 rule yielded a lower value than 120 from previous question, it would have been bumped up to 120 since it cannot go lower.   In that case, EC would have provisioned 210 NTL264231 SM R6.x SIP CONNECTION LIC ENITLE instead of 230.

Upgrades:
CS 1000 sites upgrading to R7.5:

For customers upgrading to CS1000, R7.5, for each existing CS 1000 SIP Access port, EC will provision an equivalent Session Manager session license at no charge as they already paid for this SIP trunk connection. This applies to both Enhanced and Premium customers.

Therefore, for the **Calculated SM Sessions for Connections to CS 1000** question in EC, this will provide matching SM sessions at no charge for the existing SIP access ports, and if any new SIP access ports are being added on the upgrade quote, EC will charge accordingly for the SM sessions if on Enhanced software.

If there are multiple CS 1000 R7.5 sites to be connected with Session Manager, all of these existing sites upgrading to R7.5 are entitled to the SM sessions at no charge to match the installed SIP access ports since these have already been paid for. In order to obtain the necessary SM sessions at no charge for the additional CS 1000 sites connected to the Session Manager, please select the " **Session Manager deployed elsewhere in the network** option in EC. EC will check the software history to determine if any SM sessions already exist against the CS 1000 Site ID.   If EC detects no SM sessions, it will provision equivalent SM sessions at no charge to match the existing number of SIP access ports on the system.

Ordering Procedures

This section describes the procedures involved in placing orders for the new product.

Standard Ordering Procedures

Standard ordering procedures for all Avaya Enterprise Networks data and voice products, including the following are provided in the Policies & Procedures section of the Global Product & Pricing Catalogue (GPPC)

- Order placement methods

- Lead times
- Order changes
- Expedited orders and fees
- Product delivery and shipping methods

For registered users of GPPC, once you are logged on to GPPC, select the "Policy & Procedures" link in the left side menu under the "Information" heading. Click here for information on obtaining access to GPPC.

Order Configurations, Rules and Forms

This section describes the ways in which an order for the product, its components, and software may be configured and the rules for those configurations.

Configurations

Avaya eBusiness global commercial tools offer web-based applications to Quote, Price, Configure and Order Avaya products and solutions. The suite includes Enterprise Configurator (EC) for Quoting, Pricing and Configuration, Global Product & Price Catalogue (GPPC) for product and pricing information, Keycode Retrieval System (KRS) for keycode generation, Order Center (OC) for order status and order placement and the Back End Crediting Solution (BECS) for managing back end credits.

Enterprise Configurator EC is made up of a number of Modules:
- EC Voice
- EC Data
- EC Services
- EC Promotions
- EC Solutions
- EC Sales Quote
- EC SMB
- EC Project

EC 9.1 will support CS 1000 Release 7.5 and associated products/applications. For more detailed information please see the EC 9.1 Release Notes by logging into EC or the eBusiness portal and selecting the Useful information link form the left menu (this is described below).

Notice EC 9.0.4 is available in parallel with EC 9.1 for an overlap period; this is known as "dual-streaming". **Please note that April 21, 2011 will be the last date to have a quote in Ready to Order status for CS 1000 7.0 new systems and upgrades.** Quotes that are in a Ready to Order status will be honored for 60 days – this is the standard 60-day quote guarantee. An End of Sale (EoS) will be published for CS 1000 7.0 detailing this information.

What is Dual Streaming?
For each major EC release, two streams of Enterprise Configurator (EC) will be available and maintained simultaneously for approximately 60 days overlap period to submit the quote and have it in Ready to

Order status, and another 60 days to place the order. Each stream will support a different major release of CS 1000 core software.   Users can quote and place orders from either stream of EC during the Dual stream overlap period.

- Example: With GA of CS 1000 Release 7.5, EC 9.0.4 stream supporting CS 1000 Release 7.0 new systems and EC9.1.x stream supporting CS 1000 Release 7.5 new systems will both be available simultaneously. Note: the 60 day overlap period will not apply with Release 7.0 and Release 7.5.

How does Dual Streaming work?

When logging in to EC, under the Customer list on the ebusiness portal page – users will see two entries for their channel account – one for each stream that is available. The older stream will show the release number in brackets. The newer release will not show any release number.

New quotes can be created in either stream for the overlap period.

Existing quotes can be transferred by the user from the previous stream (EC 9.0.4) to the new stream (EC 9.1). Once a quote is transferred to the newer stream, it cannot be transferred back.

EC Guarantee: for ANY product quoted in EC that you would like to be guaranteed by the EC guarantee policy, you must identify the EC QRN on your purchase order to Avaya.

How do I get more information?

All the eBusiness Commercial tools are accessible via the eBusiness portal which can be accessed regionally as follows:

Americas & Asia Pac: www.avaya.com/ebizn

EMEA: www.avaya.com/ebizu

Select the tools and other information from the drop down in the banner across the top of the eBusiness portal screen. In addition to accessing the tools, users have access to additional information including Known Issues, Useful Information, Support, Email Notification and OrderPro download.

OrderPro

OrderPro 9.1.1 and 9.0.4 can be used with EC Voice 9.1.x however it is highly recommended that the latest version, OrderPro 9.1.1, should be used in all cases to take advantage of the latest enhancements and any bug fix.

OrderPro Release Table

EC Release	Supported OPI file releases for SW history	Supported OPI file releases for Site Survey
EC 9.0.4	OrderPro 9.0.4, 9.1.1 (OP 9.1.1 Recommended)	OrderPro 9.0.4, 9.1.1 (OP 9.1.1 Recommended)
EC 9.1.1	OrderPro 9.0.4, 9.1.1 (OP 9.1.1 Recommended)	OrderPro 9.0.4, 9.1.1 (OP 9.1.1 Recommended)

Please note there should only be one version of OrderPro installed at a time. If installing a different version of OrderPro it is strongly recommended to fully uninstall the currently installed version first.

OrderPro Download Updates

The OrderPro download is enhanced to be a more direct download but can now only be downloaded directly from the eBusiness tools portal.

On the eBusiness tools portal select Download for the banner across the top, select Download OrderPro and then select the desired version.

Please note initially there is only be one version of OrderPro available for download, OrderPro 9.1.1 which is the fully Avaya branded version, as more versions become available they will also be available for download.

Once the desired version is selected the user will get a standard message Save or cancel the download the file.

OrderPro 9.1.1 Enhancements

OrderPro 9.1.1 is updated to support running OrderPro with CS1000 Rls 7.5 switches. Supports upgrade paths for and to CS1000 Rls 7.5, dial into a switch with CS1000 Rls 7.5 software and generating .OPI files.

OrderPro Download Updates

The OrderPro download is enhanced to be a more direct download but can now only be downloaded directly from the eBusiness tools portal.

On the eBusiness tools portal select Download for the banner across the top, select Download OrderPro and then select the desired version.

Please note initially there is only be one version of OrderPro available for download, OrderPro 9.1.1 which is the fully Avaya branded version, as more versions become available they will also be available for download.

Once the desired version is selected the user will get a standard message Save or cancel the download the file. Once downloaded, run the set up file as normal
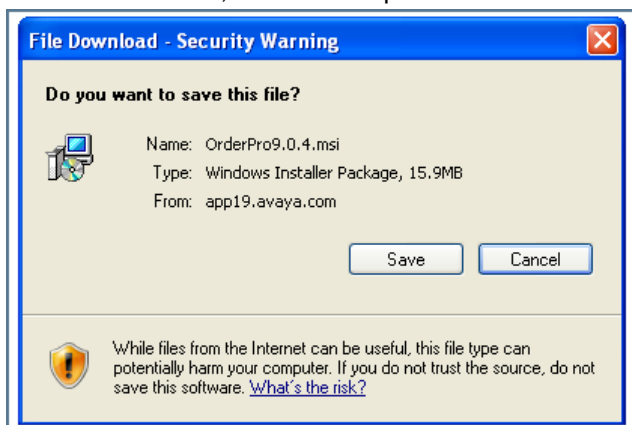
Tool Access

User Registration and Login

All Avaya Associates, Partners, Resellers and Distributors must have an Avaya 'Single Sign On' (SSO) to gain access to all the eBusiness commercial tools.

Users who do not have a 'Single Sign On' (SSO) user id (handle) must first request one and once they have the SSO then request access to the eBusiness Commercial tools.

If the user already has an SSO user please skip to Requesting eBusiness tools access section below.

Requesting SSO

To request a 'Single Sign On' (SSO) user id (handle) and password please go to:
http://support.avaya.com/css/appmanager/public/support and click on 'register now'.
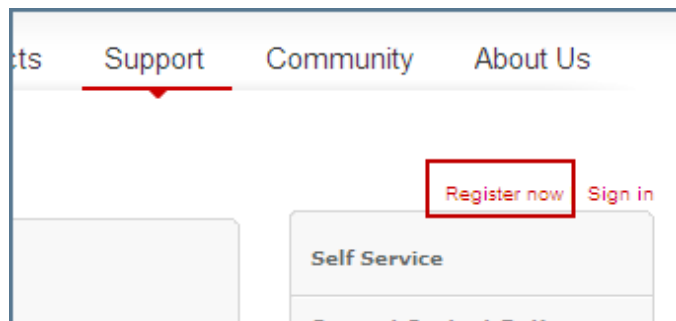
Once the user has their SSO, they will have access to a host of information and materials.

SSO Login screen

Requesting eBusiness Tools Access

Partners, Reseller and Distributors need to be entitled to sell Avaya solutions in order to access these applications. The entitlement process is executed by having your PRM Administrator proceed to PRM Partner View and click on the 'I want to sell NES' link.

Avaya Associates, once registered, will have the administrative capability to access the partner or distributor account for which they are assigned to support.

All users, regardless of their role in their organization, should register, at a minimum for the Global Product and Pricing Catalogue. In this way, they will have access to some key functionality, namely e-mail subscription service, which will allow you to receive key tools related information.

All new users may register for the eBusiness tools by accessing:
> http://www.avaya.com/uae

For additional information and instruction on the SSO or registration process please visit the following URL under related documents:
> http://portal.avaya.com/ptlWeb/so/CS2010615131231698038

Tool Support

Contact Global Tools Support

To report any issues or get clarification on items not covered in training or the release notes please log a request via the support web site or call one of the support phone numbers which are available by selecting support links in the tools .

eBiz Portal Support   **Left Hand Menu Quoting screens**
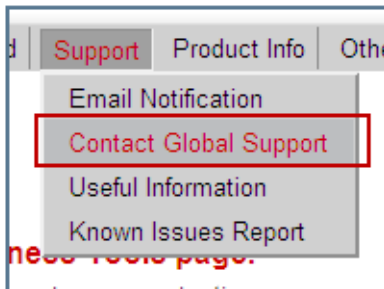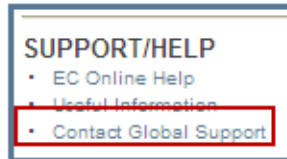
Avaya Partner and Distributors
> Web Site (Global): http://www.avaya.com/partner-itss

> Phone Numbers
> United States   +1-877-505-2827
> Canada   +1-720-444-0130
> Argentina   +54-11-4118-4901
> Brazil   +55-11-5185-6700
> Colombia   +57-1-592-2805
> Mexico   +52-55-5278-7654
> EMEA   +44-1483-309-811
> Germany   +49 69 7505 1234
> Asia Pac   +65 6872 8700

Avaya Associates

In addition to the above Avaya Associates can also use

Web Site (Global): http://itss.avaya.com
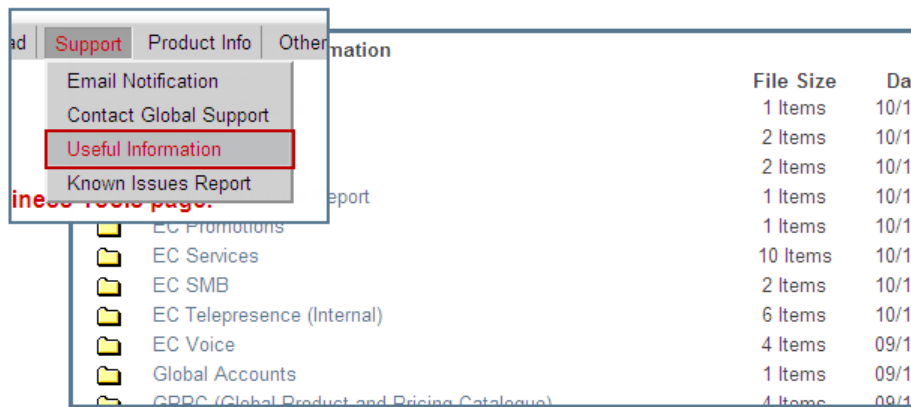
Phone numbers
United States   + 1-866-AVAYA-IT

Support is available during regional normal business hours. A formal ticket number will be provided to the requestor shortly after the issue is reported. Please note the case number and reference it in any communications with support on a reported issue.

Tool Useful Information

The Useful Information link accessible from the Support option on the eBusiness Portal page provides helpful information about the tools. Useful Information is organized into separate folders by module or tools name.

The folders contain information and reference files such as
- ▸ Training Information
- ▸ Release Notes – Release Notes contain NPI, Functionally and enhancement information for each release including compatibility tables of all product supported and how to quote or use the new additions
- ▸ Known Issue is a list of known issues with workarounds
- ▸ Upload templates which can be used to upload equipment lists from other than EC into the various modules such as to Quote services
- ▸ User Guides
- ▸ General useful and reference material

Additional documentation and information on the eBusiness Commercial Tools is available on the Avaya Partner Portal at:

http://portal.avaya.com/ptlWeb/so/CS2010615131231698038

Tool Training

Training for eBusiness Tools is available in a variety of formats including:
- ▸ Self-paced online webinars
- ▸ Leader-led training
- ▸ Slide presentations

The links to the training schedules and webinars are available via the Support and Useful Information selections on the eBusiness portal.
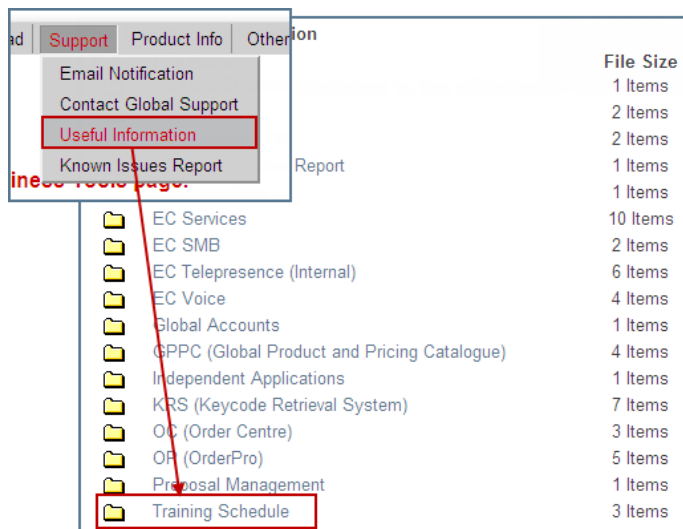
More information on the tools and the training schedule is available at:

http://portal.avaya.com/ptlWeb/so/CS2010615131231698038

Email Subscription Services

Avaya posts emails to subscribed users of the specific categories available within the email subscription service. To update your profile log into the eBusiness Portal as follows:

Americas & Asia Pac: www.avaya.com/ebizn
EMEA: www.avaya.com/ebizu

Select the Support Drop down and then Email Notification. On the Email notification screen select the category for the desired module e.g. 'EC Voice' in the example below has three main sub-categories:

- ▸ Known Defects and Workarounds
- ▸ Release and Outage Information
- ▸ Special Notices, Training and Events Information

Select the desired categories for subscription and select the 'Save' button from the bottom of the list. The categories available may vary per eBusiness tool.

Subscribe to receive release communication, monthly training schedules and any other notices or updates on EC Voice or any of the other Business tools.

Please note users who do not subscribe will not receive information about the tools including any advance notice of outages.

Dummy Site IDs:

These Site IDs apply to both Release 7.5 and 7.0, and are useful for quoting CS 1000E System Conversions (e.g. CS 1000E to MG 1000B, CS 1000E to GR-SMG, GR-SMG to MG1000B, GR-SMG to CS 1000E) to get a price when the Site ID for the target switch is not known yet.

The format in the list below is as follows:
- Site ID, country/region (e.g. US):
  - o There are 5 regions and one country is picked for each: North America (US), China (ch), CALA (mx), Asia-pac (sg) and EMEA (gb)
- Enhanced or Premium (en or pr)
- Standard Availability or High Availability (sa or ha)

- Release/issue (e.g. 07 00 = 7.0 or 07 50 = 7.5)

ID_NUM	GENERIC_ID	RELEASE	ISSUE
008833785us en sa	07	00	
008833786us en sa	07	50	
068833783ch en sa	07	00	
068833784ch en sa	07	50	
938833781mx en sa	07	00	
938833782mx en sa	07	50	
928833779sg en sa	07	00	
928833780sg en sa	07	50	
008833787gb en sa	07	00	
008833788gb en sa	07	50	
318833789us en ha	07	00	
318833790us en ha	07	50	
068833791ch en ha	07	00	
068833792ch en ha	07	50	
938833793mx en ha	07	00	
938833794mx en ha	07	50	
928833795sg en ha	07	00	
928833796sg en ha	07	50	
008833797gb en ha	07	00	
008833798gb en ha	07	50	
318833807us pr sa	07	00	
318833808us pr sa	07	50	
068833828ch pr sa	07	00	
068833829ch pr sa	07	50	
938833805mx pr sa	07	00	
938833806mx pr sa	07	50	
928833824sg pr sa	07	00	
928833825sg pr sa	07	50	
008833826gb pr sa	07	00	
008833827gb pr sa	07	50	
318833809us pr ha	07	00	
318833810us pr ha	07	50	
068833830ch pr ha	07	00	
068833831ch pr ha	07	50	
938833803mx pr ha	07	00	
938833804mx pr ha	07	50	
928833801sg pr ha	07	00	
928833802sg pr ha	07	50	
008833799gb pr ha	07	00	
008833800gb pr ha	07	50	

CS 1000 Defense Switched Network - Service Level Content

DSN is NOT supported on CS 1000 Release 7.5. EC 9.1 continues to support new and upgrades to DSN and DSN International Release 5.0.

New Hardware Codes for Communication Server 1000 Release 7.5

The following sections summarize the new CS 1000 hardware order codes being introduced with CS 1000 Release 7.5. There are a very minimal number of new CS 1000 hardware codes introduced with Release 7.5 as we are re-using all of the 7.0 codes for the 0 Line/ 0 Trunk base packages.

CS 1000 Release 7.5 New Hardware Codes

PEC Code	CPC Code	Description
NTHU62AF	N0225091	CPDC Signaling Server (Chassis or Cabinet) - R7.5
NTHU63AE	N0225092	CPDC Signaling Server (IPE Shelf) - R7.5
NTDW08AAE6	N0230239	Blank Hard Drive Kit for CPMG/CPDC

For reference, see below for the Release 7.0 Hardware Packages (same for R7.5)

PEC Code	CPC Code	Description
NTHU60AC	N0219801	CS 1000E CPPM 0 Line 0 Trunk - HA (Chassis)
NTHU60BC	N0219802	CS 1000E CPPM 0 Line 0 Trunk - HA (AC Cabinet)
NTHU60CC	N0219803	CS 1000E CPPM 0 Line 0 Trunk - HA (DC Cabinet)
NTHU60DB	N0219804	CS 1000E CPPM 0 Line 0 Trunk - High Availability (MG1010)
NTHU61IA	N0219809	CS 1000E CPMG 128 0 Line 0 Trunk - SA (Chassis)
NTHU61JA	N0219810	CS 1000E CPMG 128 0 Line 0 Trunk - SA (AC Cabinet)
NTHU61KA	N0219811	CS 1000E CPMG 128 0 Line 0 Trunk - SA (DC Cabinet)
NTHU61LA	N0219812	CS 1000E CPMG 128 Line 0 Trunk - SA (MG1010)
NTHU61MA	N0219813	CS 1000E CPDC 0 Line 0 Trunk - SA (Chassis)

NTHU61NA	N0219814	CS 1000E CPDC 0 Line 0 Trunk - SA (AC Cabinet)
NTHU61OA	N0219815	CS 1000E CPDC 0 Line 0 Trunk - SA (DC Cabinet)
NTHU61PA	N0219816	CS 1000E CPDC 0 Line 0 Trunk - Standard Availability (MG1010)
NTHU61AC	N0219805	CS 1000E CPPM 0 Line 0 Trunk - SA (Chassis)
NTHU61BC	N0219806	CS 1000E CPPM 0 Line 0 Trunk - SA (AC Cabinet)
NTHU61CC	N0219807	CS 1000E CPPM 0 Line 0 Trunk - SA (DC Cabinet)
NTHU61DB	N0219808	CS 1000E CPPM 0 Line 0 Trunk - Standard Availability (MG1010)
NTHU75AB	N0219823	MG1000B/SIP MG CPMG 32- 0 Line 0 Trunk Chassis - Max 100 Users
Upgrade Kits		
NTWB17BA	N0219827	System Upgrade Kit to CS 1000E CPMG 128 - SA
NTWB17CA	N0219828	System Upgrade Kit to CS 1000E CPDC - SA
NTWB20BCE5	N0219834	M1 PBX 11/11E Upgrade to CS 1000E CPPM Pkg (AC)
NTWB20CCE5	N0219835	M1 PBX 11/11E Upgrade to CS 1000E CPPM Pkg (DC)
NTWB20DAE5	N0219836	M1 PBX 11/11E Upgrade to CS 1000E CPMG Pkg (AC)
NTWB20EAE5	N0219837	M1 PBX 11/11E Upgrade to CS 1000E CPMG Pkg (DC)
NTWB19AA	N0126675	SA to HA CPPM Upgrade Kit-
NTWB19BA	N0219831	SA CPDC to HA CPPM Upgrade Kit
NTWB19CA	N0219832	SA CPMG to HA CPPM Upgrade Kit
NTWB18DA	N0219830	CPMG 32 Upgrade kit
NTWB22AC	N0219833	Conversion to MG 1000E
NTWB23AC	N0219838	Option 11/11E Conversion to MG 1000E Cab (AC)
NTWB24AC	N0219839	Option 11/11E Conversion to MG 1000E Cab (DC)

CS 1000 Release 7.0 Merchandise Codes (re-used with 7.5)

PEC Code	CPC Code	Description
NTDU22HC	N0221905	Media Gateway 1000E Chassis
NTDU22JC	N0219818	Media Gateway 1000E Cabinet (AC)
NTDU22KC	N0219819	Media Gateway 1000E Cabinet (DC)
NTDU22LB	N0219820	Media Gateway MG 1010 Chassis

CS 1000 Release 7.5 New Media Kit Codes

The contents of these Media kit packages are now available in GPPC and in the EC reports.

NTE907CH	N0225093	Compact Flash Software Install Kit (CP PIV) R7.5
NTM444CE	N0225094	Compact Flash S/W Inst Kit (CP PIV) R7.5 (No Dongle)
NTM446CE	N0225095	Compact Flash S/W Inst Kit CP PIV (1 Dongle) R7.5
NTM440CE	N0225096	Compact Flash S/W Inst Kit Single Proc (CPPM) R7.5
NTM447AD	N0225097	Compact Flash S/W Inst Kit (CPPM) R7.5 (No Dongle)
NTM440FB	N0225098	USB S/W Inst Kit CS/SS Co-Res (CPDC) R7.5
NTM440HB	N0227511	USB S/W Inst Kit CS/SS Co-Res (CPMG) R7.5
NTM440GB	N0225099	S/W Inst Kit CS/SS Co-Res (COTS) R7.5
NTM442FC	N0225100	Comp Flash S/W Upg Kit Co-Res to SA CS R7.5 (No Dongle)
NTM442GC	N0225101	Comp Flash S/W Upg Kit to CPPM Co-Res CS/SS R7.5 (No Dongle)
NTM442HB	N0225102	USB S/W Upg Kit to CPDC Co-Res CS/SS R7.5 (change desc)
NTM442JA	N0227512	USB S/W Upg Kit to CPMG Co-Res CS/SS R7.5
NTM442IB	N0225103	S/W Upg Kit to COTS Co-Res CS/SS R7.5 (No Dongle)
NTM441CE	N0225104	Compact Flash S/W Inst Kit Dual Prcessor (CPPM) R7.5
NTM445CE	N0225105	Comp Flash S/W Kit Dual Proc (CPPM) R7.5 (No Dongle)
NTM442CE	N0225106	Comp Flash S/W Upg Kit (SA to HA) SProc (CPPM) R7.5
NTM442EC	N0225107	Comp Flash S/W Upg Kit (Co-Res to HA) (CPPM) R7.5
NTE90079E6	N0225108	CP PIV Software Compact Flash R7.5 (Replacement)
NTM44076E6	N0225109	Backup R7.5 VxWorks S/W Kit CPPM Comp Flash (512MB)
NTM44077E6	N0225110	Backup R7.5 Linux S/W Kit CPPM Comp Flash (2GB)
NTM44078E6	N0225111	Backup R.7.5 S/W Kit CPMG/CPDC USB (4GB)
NTM44079E6	N0225112	R7.5 S/W Kit COTS DVD (Replacement)
NTM427BDE6	N0225113	CPDC Signaling Server IP Applications R7.5 (4GB USB)
NTM427DAE6	N0225269	CPDC Signaling Server S/W Upgrade (4GB USB) to 7.5
NTM427CDE6	N0225114	CPPM Signaling Server Linux Upgrade to R7.5 (2GB CF)
NTHU65DB	N0225115	CS 1000 Applications on COTS Server - R7.5
NTHU64CD	N0225116	CS1000 Applications on COTS Server Upg (DVD) to R7.5

Note: For NTM427CDE6, the 1 GB DRAM memory stick (N0198586) is not included in the kit since it is not required for R6.0 and greater upgrades to R7.5. EC will provision the DRAM memory stick for pre-Release 6.0 upgrades to R7.5 only.

The NTM427CDE6 Media kit does not contain a Programmed hard drive disk for CPPM. The impact to installers will be to either reimage the existing hard disk drive, or purchase a spare blank hard disk drive and install the CS 1000 Release 7.5 Linux base OS. The impact to installation times is approximately 20 minutes to reimage or install the Linux base OS on the hard disk drive.

Avaya Aura Codes Integrated in EC 9.1:

The following Avaya Aura applications are being added to EC 9.1: **Note:** We are using the same material codes for the Avaya Aura applications regardless of whether they are ordered in the ASD tool or using the EC tool – see update below:

- Session Manager 6.1
- System Manager 6.1
- Session Border Controller 6.0
- Conferencing 6.0
- Presence Server 6.1 *(GA 3Q2011)*
- One-X Communicator Client 6.1 *(Controlled Release in December – GA 3Q2011)*

Aura Applications (when ordered with CS1000 R7.5) Material Code Changes and Pricing Alignment Policy

To alleviate challenges that may have been encountered when ordering Avaya Aura Applications with CS 1000 R7.5, Avaya has changed the material code structure. As of June 1, 2011, any quote generated by Enterprise Configurator (EC) will include the new material codes for the Avaya Aura Applications that are supported with CS1000 R7.5. They will be the same as the original codes, but will have an NTL prefix in front of them. For example, the SM HP Server, DL360GL, has a material code of 70050192 when ordered with a Communication Manager solution in ASD. This same product will have a material code of NTL700501092 when ordered with CS1000 R7.5 in EC.

New NTL codes for Avaya Aura Application in EC

Session Manager 6.1 codes:

PEC Code	CPC Code	Description
		Hardware:
NTL700501092	N0232011	Session Manager HP Server DL360G7 SRVR 2CPU MID3
NTL700500958	N0232454	SESSION MANAGER R6.1 DVD
NTL700501478	N0232458	AVAYA AURATM SESSION MANAGER R6.1 REDHAT KICKSTART NEW DVD
		License Codes:
NTL264148	N0232018	SM R6.X SIP CONNECTION LICENSE
NTL264231	N0232019	SM R6.X SIP CONNECTION LIC ENTITL

System Manager 6.1 codes:

PEC Code	CPC Code	Description
NTL700501736	N0232448	System Manager R6.1 SP2 DVD
NTL700501897	N0232451	System Manager 6.1 SP3 DVD **(to be introduced June 6, 2011 or later and will replace code above)**
NTL700501093	N0232017	System Manager Server HP DL360G7 SRVR 2CPU MID4

Session Border Controller 6.0 codes:

PEC Code	CPC Code	Description
		Hardware & Media:
NTL263764	N0232008	Session Border Controller HP DL360G7 SRVR 1CPU MID7 Server
NTL700500929	N0232021	AVAYA AURATM SYSTEM PLTFRM 6.0.3 DVD
NTL700500960	N0232022	AVAYA AURATM SBC R6.0.2 SYS PLTFM DVD
		License Codes:
NTL258372	N0232004	Session Border Controller Session License
NTL258373	N0232005	Session Border Controller session replication and recording license
NTL258374	N0232006	Session Border Controller transcoding license

Conferencing 6.0 codes:

PEC Code	CPC Code	Description
		Hardware & Media:
NTL263801	N0231997	DELL R610 MX SRVR 2CPU HI1
NTL263802	N0231998	DELL R610 MX SRVR 2CPU HI1 MSFT OCS INTG
NTL700500053	N0231992	CONF R6 IBM S/TIME CD
NTL700500054	N0231993	CONF R6 IBM LOTUS NOTES CD
NTL700500055	N0231994	CONF R6 MSFT OCS CD
NTL700500056	N0231995	CONF R6 MSFT OUTLOOK CD
NTL700500057	N0231996	CONF R6 STD DVDs
		License Codes:
NTL232157	N0231984	CONF R6.X STD LIC
NTL232158	N0231985	CONF R6.X STD UPG LIC

NTL232159	N0231986	CONF R6.X STD ENTITLE LIC
NTL232160	N0231987	CONF R6.X UC CLNT LIC
NTL232161	N0231988	CONF R6.X UC CLNT ENTITLE
NTL232162	N0231989	CONF R6.X AWC LIC
NTL232163	N0231990	CONF R6.X UC CLNT UPG LIC
NTL232170	N0231991	CONF R6.X AWC UPG LIC
		ASIPP Migration License Codes:
NTL264284	N0231980	CONF R6.X STD ED ASIPP LIC
NTL264285	N0231981	CONF R6.X WEB STD ED ASIPP LIC
NTL264286	N0231982	CONF R6.X STD ED ASIPP SRS LIC
NTL264287	N0231983	CONF R6.X WEB STD ED ASIPP SRS LIC

Presence Services 6.1 codes:

PEC Code	CPC Code	Description
NTL263127	N0231999	AVAYA AURA TM PRESENCE SERVICES R6.1 SERVER BUNDLE
NTL259760	N0232001	AVAYA AURATM PS R6.1 LIC
NTL259761	N0232002	AVAYA AURATM PS R6.1 SP Template Download
NTL259762	N0232003	AVAYA AURATM PS R6.1 Software Download

One-X Communicator Client 6.1 codes:
When the one-X Communicator client is used with a CS 1000 system, it has a unique Engineering and Functional code as per below :

PEC Code	CPC Code	Description
		Engineering code:
NTE919AA	N0228264	Avaya One-X Communicator 6.1 License for CS 1000
		Functional code:
NT5Y59AA	N0228265	Avaya One-X Communicator 6.1 License for CS 1000

DOCUMENTATION

Documentation can now be found on the Avaya Support Portal. Please follow instructions below to access.

Go to www.Avaya.com and select Support.
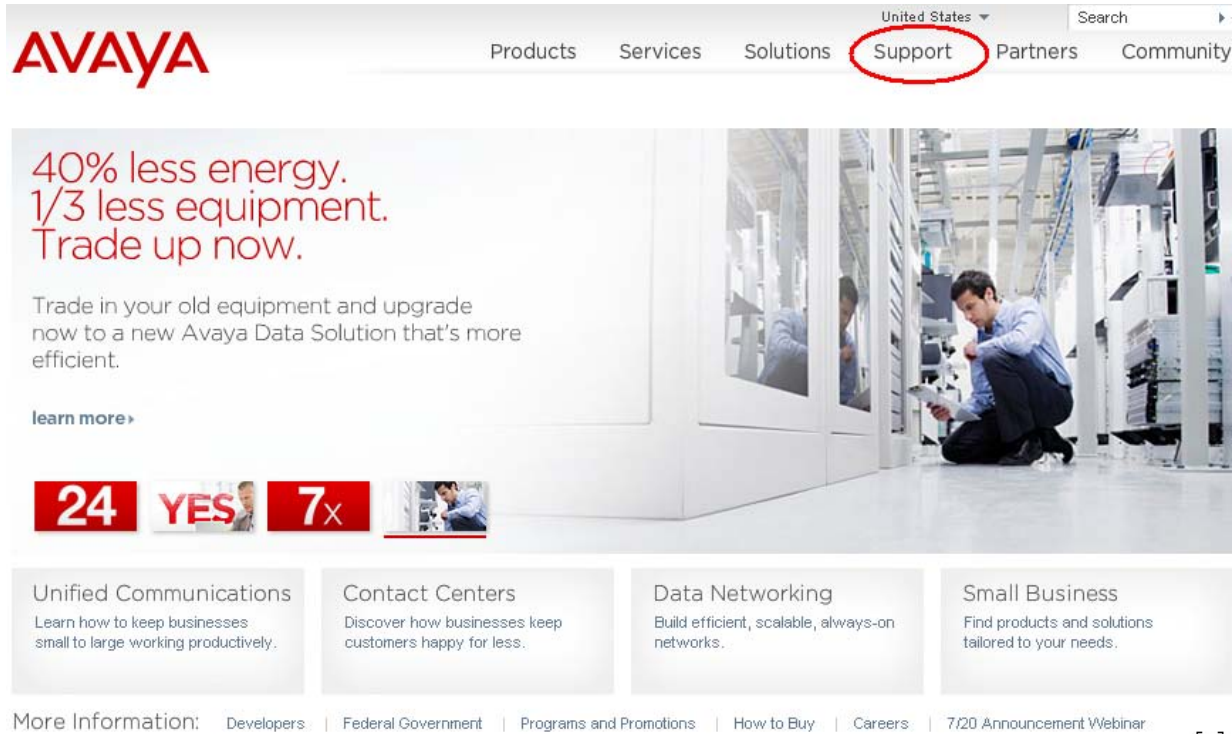
The following page should appear. Please select Products on the left Hand side and a dialog screen will appear – type in the product you are looking for.

Below is a example for Communication Server 1000 – we will see you have 4 products to chose from. Select Communication Server 1000E.

Below is the Communication Server 1000E Product page. Please select Documentation on the left Hand side.

The Documentation tab will open up as shown below – please select "View All Documents" or if you know the sub-category select that.

At this point you have the option to select a particular release of software.

Please NOTE: There will be no Doc DVD available for CS1000 Release 7.5.

Training

Avaya Product Authorization Program Requirements

Communication Server 1000 Release 7.5

The Product Authorization Program, Avaya Communication Server 1000 for Avaya Aura® supports the authorization competency requirements for new and existing CS 1000 partners. Details can be found at this link https://www.avaya-learning.com/portal/content_secure/certification/pa_home.asp

Authorization

Authorization is the process by which the Channel Partner organization establishes its readiness to support a new or existing product. This readiness may involve both competency of personnel as well as equipment and facilities.

Authorization Strategy

Avaya has a long standing commitment to customer satisfaction. We feel it is essential that our Channel Partners are equipped with the necessary tools to become knowledgeable on the products and solutions which are sold and maintained. This ensures that the appropriate product positioning, configuration, implementation and support services are delivered to the end-customer. To support our commitment to the customer, we require a Channel Partner to become authorized in order to sell and service certain products.

The Authorization Strategy for this product is provided in the Channel Partner Business Case and/or the Executive Business Case Briefing section under the Product Inclusion Category of this product's Knowledge Transfer Kit (KTK). These documents are typically delivered 150 days prior to General Availability (GA).

Authorization Program

The Authorization Program for CS 1000 7.5 is achieved through Product Authorizations for Sales, Design, Implementation and Maintenance. The details about training, assessment tests and exams can be found at www.avaya-learning.com.

Certification

Avaya Certifications are a part of Avaya Connect. They measure an individual's competency on Avaya products and solutions and contribute to a Partner's standing in the Avaya Connect program. They support partner authorization and channel partner programs. The exams associated with Avaya Certifications are closed book and proctored (secure monitored test environment).

Training & Certification Requirements

Further details about the Certification exam(s) and assessment tests can be found at www.avaya-learning.com . Partners will find the following information on this site:

	solution; plus Assessment				
					Note: The APSS-UC assessment test must be passed to qualify to sell CS 1000 Release 7.5. To view the curriculum for APSS-UC, go to Avaya University

Product Authorization - Design

Course Number	Course Title	Length	Delivery Method	Pricing USD $	Availability	Notes
6352X	CS 1000 Engineering & Network Design	5 days	vILT		12/6	
6352J	CS 1000 Engineering & Network Design Assessment	1 hour	Web	$0	12/6	
6353X	CS 1000 Upgrades for Engineers	4 days	vILT		12/6	
6353J	CS 1000 Upgrades for Engineers Assessment	1 hour	Web	$0	12/6	
						Note: The APDS-UC assessment test must be passed to qualify to sell CS 1000 Release 7.5. To view the curriculum for APDS-UC, go to Avaya University

Product Authorization - Implementation

Course/exam Number	Course/eam Title	Length	Delivery Method	Pricing USD $	Availability	Notes
Exam 6001.1 ACIS-Session Manager and System Manager	**Session Manager/System Manager**				**Now**	**This ACIS is required**
6351X	CS 1000 System	5 days	vILT		12/6	

	Management					
6374W	CS 1000 UCM Architecture Fundamentals	4 hours	WBT	$0	11/30	
6376C	CS 1000 Implementation & Upgrades	5 days	ILT		12/6	
TBC	**CS 1000 Implement Product Authorization exam**	90 min	Exam - Pearson Vue		End of Jan	**Formerly called ACIS- CS 1000**

Note: ACIS-Session Manager and System Manager is required to install the Session Manager as part of a CS 1000 7.5 solution. The curriculum map for this credential can be found under Credentials on www.avaya-learning.com

Product Authorization - Maintenance

Course Number/Exam number	Course Title	Length	Delivery Method	Pricing USD $	Availability (North America dates)	Notes
Exam 6001.1 ACIS-Session Manager and System Manager	**Session Manager/System Manager**					**This ACIS is required**
6351X	CS 1000 System Management	5 days	vILT		12/6	
0956C	CS 1000 BARS/NARS	5 days	ILT		12/13	
0781C	CS 1000 Dialing Plan Design & IP Peer Networking	5 days	ILT		12/13	
TBC	**CS 1000 Maintenance & Support exam**	90 min	Exam – Pearson Vue		End of Jan	This exam is based on the hNortel NCSS-Database Specialist exam (920-361). It is updated/rebranded and released as a proctored assessment test.

Course 6380F, What's New in Avaya CS 1000 Release 7.5, is available for pre-sales and support personnel skilled and actively working with CS 1000 Release 7.0. This course is designed to provide the delta information between Release 7.0 and Release 7.5. It does not teach Avaya Aura® Session Manager or Avaya Aura ™ System Manager. The path to competency on these two products is the curriculum for the ACIS – Session Manager and System Manager Implementation exam as detailed in the tables for Implementation and Maintenance.

Quality Framework

Quality Framework (QF) has being launched late November 2010. This initiative is focused on accelerating the market adoption of Avaya products while ensuring the quality of these solutions continue to serve as a key differentiator for Avaya and Avaya Channel Partners. There are two key policies included in QF:

- New Product Introduction (NPI)
- Solution Validation Services (SVS)

The NPI policy is applied to a select number of new products that are being launched late this year, while the SVS policy will become mandatory in February, 2011, the underlying best practice services are available to leverage between now and February. If you are unfamiliar with QF a description and link to materials are included at the end of this email. CS 1000 R7.5 deployments with Session Manager 6.1 are in-scope for QF.

https://enterpriseportal.avaya.com/ptlWeb/internal/services/SV0555/AllCollateral

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CUSTOMER VALUE SOFTWARE DELIVERY (CVSD) SOFTWARE STRUCTURE OVERVIEW

The Customer Value Software Delivery (CVSD) Software Structure introduced with Succession Release 3.0 and continued in all subsequent software releases provides two common software feature service levels and common incremental software management (licenses) counters.

CVSD provides consistent and common functionality for our customers, partners and distributors on a global scale.

CVSD applies to new system orders and upgrades. Installed based customers, on Release 25.40B or earlier, who require Succession 3.0 or later capabilities or features must first upgrade to the CVSD structure.

CVSD Software structure – for CS 1000 Release 7.5

Service Level ISMs for Release 7.5 are:

TDM (replaces Analog, TDM and CLASS)

DECT

DECT Visitor

Basic IP

IP

Temporary IP

ACD

MOBX

FMCL

TLSV

SIPN

SIP3

IP Attendant

The Analog, Digital and CLASS User Licenses are no longer orderable.

System Level ISMs for Release 7.5 are:

SIP Access Port

H.323 Access Port

AST

RAN CON

MUS CON

Personal Call Assistant (PCA)

SIP Converged Desktop License

SIP CTI TR87

IP Media Services Sessions

IP MUSIC

IP RAN

ELC Access Ports – new with 7.5

The ITG ISDN Trunk license and Survivability License are no longer orderable.

Software Level Functionality Overview:

CVSD Software Level Functionality – for CS 1000, Release 5.0 and beyond

Level	Name	Networking Description
Tier 2	Premium Service Package	• Combines Advanced Networks & Advanced Call Centre Functionality • DPNSS Message Waiting inter-working to 3rd party voice messaging systems • Networked Call Centers/Network ACD • Private Enterprise Networking & Call Tandeming for Dedicated Private Ntwks • Virtual Private Networks (VPN) • QSIG GF and Supplementary Services, MCDN • Advanced Private network services in Meridian MCDN networks • Advanced Private network services and inter-working to 3rd party PBXs over QSIG and DPNSS • Advanced Public network services to COs • Advanced IP Peer Networking over H.323 and SIP • Advanced Branch Office Services

Tier 1	Enhanced Service package	- POTS Level Service, - Voice services Connectivity - Basic Analog and Digital trunking to Central Office - Basic Private Network services in Meridian MCDN networks - Basic Private Networking with 3rd party switches using non ISDN interfaces - Basic Public network services to COs over NI-2, EuroISDN & DASS2 _____ - Multi-Customer, Multi-Tenant, Meridian Link, & OTM Data Buffering - Enhanced Private network services in Meridian MCDN networks - ISDN Signaling Link, Advanced ISDN Network, ACD Load Management & Reporting - Basic Private Network inter-working to 3rd party switches over ISDN / IP Peer H.323 trunks/SIP trunks - Enhanced Public network services to COs over NI-2 & EuroISDN - IP Peer networking over H.323 and SIP trunks (Virtual trunks) - Basic Branch Office services - Virtual Office - NMS _____ - Connectivity to Symposium Call Centre Server (SCCS) & TAPI Server - ACD Call Centre Mgmt & Reporting, and Meridian MAX - Call Center Transfer Connect UUI (User to User information)

Summary of CS 1000 Release 7.5 CVSD Changes

The following sections summarize all new order codes being introduced with the new software release. Refer to the Software and Hardware Product Data Templates (PDT) for the software release for more detailed descriptions of these codes.

New/Changed System Types
Software media kits get bundled with the NTE9 codes below. Dongles are provisioned with the Media kits.

New Engineering Order Codes for Release 7.5 System Software:

PEC Code	CPC Code	Description	Software Media Kit
NTE920AB	N0225043	CS 1000E (CPMG 128) CS/SS Co-Res System Software R7.5	NTM440HB
NTE930GB	N0225044	CS 1000E (CPDC) CS/SS Co-Res System Software R7.5	NTM440FB
NTE940BB	N0225045	CS 1000E (COTS) CS/SS Co-Res System Software R7.5	NTM440GB
NTE940AB	N0225042	CS 1000E High Scalability (HS) System	NTM441CE (same as HA)

		Software R7.5	
NTE900MH	N0225040	CS 1000E (CPPM) SA System Software R7.5	NTM440CE
NTE900CH	N0225041	CS 1000E (CPPM) HA System Software R7.5	NTM441CE
		MG 1000B:	
NTE920BB	N0225046	MG 1000B CPMG128 CoRes System Software R7.5	NTM440HB (same as CS 1K CPMG)
NTE930HB	N0225047	MG 1000B CPMG32 CoRes System Software R7.5	NTM440HB (same as above for CPMG 128)
		Survivable Media Gateway:	
NTE900UH	N0225048	Survivable Media Gateway CPPM SA System Software R7.5	NTM440CE (Same as CS1K SA CPPM)
NTE900VH	N0225049	Survivable Media Gateway CPPM HA System Software R7.5	NTM441CE (Same as CS1K HA CPPM)
NTE900WH	N0225050	Survivable MG (CPPM) Co-Res System Software R7.5 (for Upgrades only)	NTM442GC
NTE920CB	N0225051	Survivable MG (CPMG128) Co-Res System Software R7.5	NTM440HB (same as CS 1K CPMG)
NTE920DB	N0225052	Survivable MG (CPMG32) Co-Res System Software R7.5	NTM440HB (same as above for CPMG 128)
NTE930CB	N0225053	Survivable MG (CPDC) Co-Res System Software R7.5	NTM440FB
NTE940CB	N0225054	Survivable MG (COTS) Co-Res System Software R7.5	NTM440GB (same as CS 1K COTS)
		SIP Media Gateway (Gateway Controller):	
NTE920EB	N0225055	SIP MG (CPMG128) Co-Res Software R7.5	NTM440HB (same as CS 1K CPMG)
NTE920FB	N0225056	SIP MG (CPMG32) Co-Res Software R7.5	NTM440HB (same as above for CPMG 128)
NTE920MB	N0225057	SIP MG (CPPM) SA Software R7.5	NTM440CE (Same as CS1K SA CPPM)
NTE920NB	N0225058	SIP MG (CPPM) HA Software R7.5	NTM441CE (Same as CS1K HA CPPM)
NTE920PB	N0225059	SIP MG (CPPM) Co-Res Software R7.5 (for Upgrades only)	NTM442GC
		Survivable SIP Media Gateway Blade:	
NTE930DB	N0225060	Survivable SIP MG (CPDC) Co-Res Software R7.5	NTM440FB
NTE940DB	N0225061	Survivable SIP MG (COTS) Co-Res Software R7.5	NTM440GB (same as CS 1K COTS)
NTE910MB	N0225062	Survivable SIP MG (CPPM) SA Software R7.5	NTM440CE (Same as CS1K SA CPPM

NTE910NB	N0225063	Survivable SIP MG (CPPM) HA Software R7.5	NTM441CE (Same as CS1K HA CPPM)
NTE910TB	N0225064	Survivable SIP MG (CPPM) Co-Res Software R7.5	NTM442GC

New/Changed System or Service Software Licenses

The following new Software License is being introduced with CS 1000, Release 7.5:

New System Licenses:

ELC Access Ports (Extended Local Call Access Ports)

- o This is a SIP Access port license to enable Avaya Aura Session Manager application sequencing for local CS 1000 calls with Release 7.5.

New Licenses Order Codes with Release 7.5 :

PEC Code	CPC Code	Description
NTE980JD	N0225066	SIP Access Port License to enable Avaya Session Manager Application Sequencing for local CS1000 calls.
NTE980JE	N0229546	1 SIP Access Port License - with Session Manager
NTE906UA	N0225067	Converged Office Enhanced User License package to enable Remote Call Control Interoperability with Microsoft OCS using Avaya Voice
NTE907TA	N0225068	Converged Office Premium User License package to enable Remote Call Control Interoperability with Microsoft OCS using Avaya Voice
NTE918BA	N0227520	1 CS 1000 RFC4240 Service Sessions Floating license
NTE919AA	N0228264	One-X Communicator 6.1 License for CS 1000

*Note: Converged office users to enable Remote Call Control Interoperability with Microsoft OCS using Avaya Voice are dependent on the availability of ACE 2.3.

New Telephone Sets supported

There are no new set types introduced with CS 1000 Release 7.5:

There are no new ISMs introduced with this development. New IP Phone types will use the existing ISMs as follows (one per configured Virtual TN):

Basic IP User License:

2001, 2033, 1110, 1210

IP User License:

2004P1, 2004P2, 2002P1, 2002P2, 2050 Softphone, 2050MVC, 2210, 2211, 2212, 2007, 1120, 1130, 1140, 1150, 1165.

Processor Evolution

No new Call Processor platforms have been introduced with Release 7.5.

Software Upgrades to CS 1000 Release 7.5

The following codes depict the new codes to upgrade to CS 1000, R7.5, but there are also new codes to allow for upgrades from Release 7.0 to Release 7.5 for a reduced price.

New Engineering Order Codes to deliver software upgrades to Release 7.5

PEC Code	CPC Code	Description
NTE946MN	N0225079	Software Upgrade Existing to R7.5 (up to 99 users/system)
NTE946LL	N0225080	Software Upgrade Existing to R7.5 (100 to 1199 users/system)
NTE959LA	N0225081	Software Upgrade Existing to R7.5 (1200 to 1999 users/system)
NTE959LB	N0225082	Software Upgrade Existing to R7.5 (2000 to 4999 users/system)
NTE959LC	N0225083	Software Upgrade Existing to R7.5 (5000 to 9999 users/system)
NTE959LE	N0225084	Software Upgrade Existing to R7.5 (10000+ users/system)

| NTE973LL | N0225087 | MG 1000B SW upgrade to R7 Like for Like per User |
| NTE901PC | N0225268 | SIP Media Gateway system software upgrade to 7.5 |

Existing Functional Order Codes to deliver software upgrades to Release 7.5 (same codes for R7.0/ R6.0)

PEC Code	CPC Code	Description
NTHN89BA	N0193143	Like for Like Software Upgrade per Extension (up to 99 users/sys)
NTHN89BB	N0193145	Like for Like Software Upgrade per Extension (100 to 1199 users/sys)
NTHN89BC	N0206213	Like for Like Software Upgrade per Extension (1200 to 1999 users/sys)
NTHN89BD	N0206214	Like for Like Software Upgrade per Extension (2000 to 4999 users/sys)
NTHN89BE	N0206215	Like for Like Software Upgrade per Extension (5000 to 9999 users/sys)
NTHN89BF	N0206216	Like for Like Software Upgrade per Extension (10,000 + users per system)
NTHN87AA	A0785176	Like for Like Software Upgrade Charge per Extension (previous release to current release)

1 new Functional Order code for upgrades to Release 7.5:

| NT5Y25CA | N0225271 | FC, SIP Media Gateway system software upgrade to current |

New Engineering Order Codes to deliver software upgrades from Release 7.0 to Release 7.5

PEC Code	CPC Code	Description
NTE949MN	N0227513	Software Upgrade Existing R7.0 to R7.5 (up to 99 users/system)
NTE949LL	N0227514	Software Upgrade Existing R7.0 to R7.5 (100 to 1199 users/system)
NTE949JA	N0225078	Software Upgrade Existing R7.0 to R7.5 (1200 to 1999 users/system)
NE949JB	N0227515	Software Upgrade Existing R7.0 to R7.5 (2000 to 4999 users/system)
NTE949JC	N0227516	Software Upgrade Existing R7.0 to R7.5 (5000 to 9999 users/system)
NTE949JE	N0227517	Software Upgrade Existing R7.0 to R7.5 (10000+ users/system)
NTE974LL	N0227518	MG 1000B SW upgrade to R7 to 7.5 Like for Like per User

New Functional Order Codes to deliver software upgrades from Release 7.0 to Release 7.5

PEC Code	CPC Code	Description
NT5Y58CA	N0227541	FC, SW Upgrade Existing R7.0 to R7.5 (up to 99 users per system)
NT5Y58DA	N0227542	FC, SW Upgrade Existing R7.0 to R7.5 (up to 1199 users per system)
NT5Y25BA	N0225270	FC, SW Upgrade Existing R7.0 to R7.5 (up to 1999 users per system)
NT5Y58EA	N0227543	FC, SW Upgrade Existing R7.0 to R7.5 (up to 4999 users per system)
NT5Y58FA	N0227544	FC, SW Upgrade Existing R7.0 to R7.5 (up to 9999 users per system)
NT5Y58GA	N0227545	FC, SW Upgrade Existing R7.0 to R7.5 (10000+ users per system)
NT5Y58HA	N0227546	FC, SW MG 1000B SW upgrade to R7 to 7.5 Like for Like per User

Existing Branch MG 1000B Engineering Order Code to deliver software upgrades to Release 7.5 (same as 7.0)

PEC Code	CPC Code	Description
NTE955AK	N0220099	Software Upgrade Branch Office MG 1000B CPPM to current
NTE955AJ	N0220098	Software Upgrade Branch Office MG 1000B (SSC to CPMG) to current

Existing Branch MG 1000B Functional Based Pricing Order Code to deliver software upgrades to Release 7.5 (same as 7.0)

PEC Code	CPC Code	Description
NT5Y54BA	N0221096	MG 1000B system software (<=100 users)
NT5Y54CA	N0221097	MG1000B system software upgrade 6.0 to current
NT5Y54DA	N0221098	MG 1000B system software upgrade to current (<=100 users)
NT5Y54EA	N0221099	Processor SW upgrade CPMG32 to CPMG128

Software License Conversions

No new Software License conversion codes were taken out in Release 7.5. All License conversion codes remain the same as Release 7.0.

New Functional codes with CS 1000 Release 7.5

The following section shows the new software functional codes with the 7.5 program;

Software license only Functional Codes:

PEC Code	CPC Code	Description
NT5Y25EA	N0225273	FC, SIP Access Port License to enable Avaya Session Manager Application Sequencing for local CS1000 calls.
NT5Y25FA	N0225274	FC, Converged Office Enhanced User License package to enable Remote Call Control Interoperability with Microsoft OCS using Avaya Voice
NT5Y25GA	N0225275	FC, Converged Office Premium User License package to enable Remote Call Control Interoperability with Microsoft OCS using Avaya Voice
NT5Y58BA	N0227540	FC, 1 CS 1000 RFC4240 Service Sessions Floating license
NT5Y59AA	N0228265	FC, One-X Communicator 6.1 License for CS 1000

CS 1000 Release 7.5 Applicable Systems / Processors & LCM

There have been no changes to this table for 7.5 (same as 7.0)

TDM System Upgrades

Applicable Platform	Call Server CPU Type	System Generic	SW Upgrade only	New System	Processor Upgrade	Notes
PBX 51C	CP3/4	2421/ 2821	No	No	CP-PIV	**Mandatory:** Must upgrade to supported system type, i.e. migrate to 61C at the minimum via Processor upgrade + Card cage upgrade.

PBX 61C	CP3/4	2521/ 2921	No	No	CP-PIV	**Mandatory:** Processor upgrade + Card Cage + Software upgrade
	CP-PII	3221	No	No	CP-PIV	Mandatory processor upgrade to CP-PIV
	CP-PIV	3521	Yes	No		
PBX 81C	CP3/4	2621/ 3021	No	No	CP-PIV	**Mandatory:** Processor upgrade + Card Cage+ FNF (if not equipped) + Software upgrade
	CP-PII	3321	No	No	CP-PIV	Mandatory processor upgrade to CP-PIV
	CP-PIV	3621	Yes	No		
PBX 11C Cabinet/ Chassis	SSC	2121	No	No	CPMG 128	SSC card is not supported with Release 6.0. Must migrate to a CS 1000E. Mandatory Processor Upgrade to CPMG 128 Co-Res or CPPM VxWorks SA/HA.
PBX 11C Chassis	MSC	2121	No	No	CPMG 128	MSC card is not supported with Release 5.0 and onwards, and upgrades with MSC are also not supported. Must migrate to a CS 1000E. Mandatory Processor Upgrade to CPMG 128 Co-Res or CPPM VxWorks SA/HA.
CS 1000E TDM	CP-PM Co-res (Linux)	4121	Yes	No	No	This is the Option 11C replacement system in Release 6.0, based on CS 1000E Co-Res. No IP or SIP ISMs allowed as this is TDM only. CS 100E TDM solution will not be sold as new with 7.0. If migrating to full CS 1000E, will allow an upgrade to CPPM VxWorks SA/HA.
	CPMG 128 (Co-res)	4421	Yes	No	NA	CS 100E TDM solution will not be sold as new with 7.0. If migrating to full CS 1000E, will allow an upgrade to CPPM VxWorks SA/HA.

IP Systems New Systems and Upgrades

Applicable Platform	Call Server CPU Type	System Generic	SW Upgrade only	New System	Processor Upgrade	Notes
Communication Server 1000M HG	CP3/4	2421/ 2821	No	No	CP-PIV	**Mandatory:** Must upgrade to supported system type, i.e. migrate to 61C at the minimum via Processor upgrade + Card cage upgrade.
Communication Server 1000M SG	CP3/4	2521/ 2921	No	No	CP-PIV	**Mandatory:** Processor upgrade + Card Cage + Software upgrade
	CP-PII	3221	No	No	CP-PIV	Mandatory processor upgrade to CP-PIV.
	CP-PIV	3521	Yes	No	NA	
Communication Server 1000M MG	CP3/4	2621/ 3021	No	No	CP-PIV	**Mandatory:** Processor upgrade + Card Cage+ FNF (if not equipped) + Software upgrade
	CP-PII	3321	No	No	CP-PIV	Mandatory processor upgrade to CP-PIV.
	CP-PIV	3621	Yes	No	NA	
Communication Server 1000E	CP-PII	3321	No	No	CP-PIV CP-PM	Mandatory upgrade to either processor type – if upgrading to CPPM, customers cannot make use of "Buffy" chassis. Can no longer re-use SSC card as Gateway Controller in MG 1000E. No re-use of SSC as Gateway Controller at all.
	CP-PIV	3621	Yes	No	CPPM VxWorks	New systems will no longer be sold with CP-PIV processor. If upgrading to CP-PM processor, customers cannot make use of "Buffy" chassis.

						Can no longer re-use SSC card as Gateway Controller in MG 1000E.
	CP-PM (Vx-Works)	4021	Yes	Yes	CPPM Co-Res	With 7.0, CPPM will be used for HA and SA only when need to exceed capacity limits with Co-Res. VxWorks is HA or SA. New with Rls 5.0 – sold with Chassis or Cabinet form factor No re-use of SSC card as Gateway Controller. Must use MGC in MG 1000Es.
	CP-PM Co-res (Linux)	4121	Yes	No	CPPM VxWorks	CPPM Co-Res will not be sold as new with Rls 7.0. .Not offered with HA.
	CPMG 128 (Co-Res)	4421	NA	Yes	CPDC COTS 2 CPPM – VxWorks	New in R7.0. All CS 1000E SA systems will default to CMPG 128 processor.
	CPDC (Co-Res)	4221	NA	Yes	CPPM-VxWorks	New in R7.0. Required to exceed capacity of CPMG 128 and for future proofing.
	COTS 2 (Co-Res)	4521	NA	Yes	CPPM - VxWorks	New in R7.0. We now support Call Server Co-res on COTS.
CS 1000E HS	CP-PM (Vx-Works)	4021	NA	Yes	NA	New system type with R7.0. HS systems are comprised of multiple HA Call Server Cores. Keeping same system generic for HS.
CS 1000M Cabinet	SSC	2121	No	No	CP-PM VxWorks SA/HA CPMG 128 CPDC	Replaced by CS 1000E & MG 1000E Cabinet. Mandatory processor upgrade. No re-use of SSC card.
CS 1000M Chassis	SSC/ or MSC	2121	No	No	CP-PM VxWorks SA/HA CPMG 128 CPDC	Replaced by CS 1000E & MG 1000E Chassis. Mandatory processor upgrade. No re-use of SSC card or MSC card.

					CP-PM VxWorks SA/HA CPMG 128 CPDC	
CS 1000S	SSC	2121	No	No		Replaced by CS 1000E & MG 1000E Chassis. No re-use of SSC card.

Gateways

Applicable Platform	Call Server CPU Type	System Generic	SW Upgrade only	New System	Processor Upgrade	Notes
MG 1000B	SSC	2121	No	No	CPMG 128 CPMG 32	Branch will not be sold with an SSC card.
	CP-PM (Vx Works)	4021	No	No	CPPM Co-Res	For upgrades, as of Release 6.0, we force 1000B customers to upgrade to CPPM Co-res on Linux.
	CPPM Co-res (Linux)	4121	Yes	No	No	In R7.0, we will no longer sell MG 1000B as new with CPPM platform.
	CPMG 128 (Co-Res)	4421	NA	Yes	No	In R7.0, the MG 1000B will be sold with the CPMG processor.
	CPMG 32 (Co-Res)	4321	NA	Yes	CPMG 128	This is targeted for the SRG replacement.
MG 1000E	SSC	2121	No	No	MGC	Mandatory processor upgrade to MGC.
	MGC	4021	Yes	Yes	NA	MG 1000E can be in chassis or cabinet form factor.
Survivable MG 1000E	CPPM (VxWorks)	4021	Yes	Yes	CPPM Co-Res	Survivable MG 1000E systems will no longer be sold with CP-PIV processor. SMG on VxWorks available with SA or HA.
	CPPM Co-res (Linux)	4121	Yes	No	CPPM - VxWorks SA/HA	SMG will no longer be sold with CPPM Co-Res in R7.0.
	CPMG 128 (Co-Res)	4421	NA	Yes	CPDC COTS 2	CPMG 128 should be default choice in EC for SMG

					CPPM - VxWorks SA/HA	
	CPMG 32 (Co-Res)	4321	NA	Yes	CPMG 128 CPDC COTS2/3 CPPM - VxWorks SA/HA	
	CPDC (Co-Res)	4221	NA	Yes	CPPM- VxWorks SA/HA	
	COTS (Co-Res)	4521	NA	Yes	CPPM – VxWorks SA/HA	
SIP Media Gateway	CPMG 128 (Co-Res)	4421	NA	Yes	No	New with 7.0 – Survivable SIP Media Gateway requires another call processor for the Survivability blade (i.e. CPDC/ COTS2/3, or CPPM VxWorks SA/HA to go beyond co-res capacity). CPPM Co-Res is also supported on the Survivable blade for **upgrades only.**
	CPMG 32 (Co-Res)	4321	NA	Yes	CPMG 128	New with 7.0 – Survivable SIP Media Gateway requires another call processor for the Survivability blade (i.e. CPDC/ COTS2/3, or CPPM VxWorks SA/HA to go beyond co-res capacity). CPPM Co-Res is also supported on the Survivable blade for **upgrades only.**
	CPPM VxWorks SA/HA	4021	Yes	Yes	No	Required to go beyond 400 Virtual trunk ISM limit with Co-Res.
	CPPM Co-Res	4121	Yes	No	CPPM - VxWorks SA/HA	CPPM Co-Res supported for **upgrades only.**
MG 1000S	SSC	2121	No	No	MGC	Replaced by MG1000E – Mandatory upgrade to MGC.
MG 1000T	SSC	2121	No	No	MGC	Replaced by MG1000E –

Global Software structure

Systems Specific Packages - New Systems

The specific feature packages required by each system type to operate will reside in a separate system Identifier package. All service levels in a Region will apply to these system types. The order management system will be required to include these packages as described in this section for each of the systems types described below.

The System codes are up-issued for CS 1000 Release 7.5 to account for the programmed media that is shipped that is release specific and new codes are introduced for the CPPM.

COMMERCIAL SYSTEM	GLOBAL SYSTEM CODES [SOFTWARE CODES]		SYSTEM GENERIC	SPECIFIC FEATURE PACKAGE
CS 1000E (CPPM) SA – R7.5	NTE900MH	N0225040	4021	227,228,286,299,368, 402,403, 404
CS 1000E (CPPM) HA– R7.5	NTE900CH	N0225041	4021	227,228,286,299,368, 402,403 404, 410
CS 1000E High Scalability (HS) - R7.5	NTE940AB	N0225042	4021	227,228,286,299,368, 402,403 404, 410, 421
CS 1000E (CPMG 128) CS/SS - R7.5	NTE920AB	N0225043	4421	227,228,286,299,368, 402,403, 404
CS 1000E (CPDC) CS/SS Co-Res - R7.5	NTE930GB	N0225044	4221	227,228,286,299,368, 402,403, 404
CS 1000E (COTS) CS/SS Co-Res - R7.5	NTE940BB	N0225045	4521	227,228,286,299,368, 402,403, 404
MG 1000B:				
MG 1000B CPMG128 CoRes System SoftwareR7.5	NTE920BB	N0225046	4421	390, etc. See section 4.6-4.9
MG 1000B CPMG32 CoRes System Software R7.5	NTE930HB	N0225047	4321	390, etc. See section 4.6-4.9
Survivable Media Gateway:				
Survivable Media Gateway CPPM SA - R7.5	NTE900UH	N0225048	4021	405, plus 227,228,286,299,368,402,403
Survivable Media Gateway CPPM HA - R7.5	NTE900VH	N0225049	4021	405, plus 227,228,286,299,368, 402,403, 410
Survivable MG (CPPM) Co-Res - R7.5 (for Upgrades only)	NTE900WH	N0225050	4021	405, plus 227,228,286,299,368,4

				02,403
Survivable MG (CPMG128) Co-Res - R7.5	NTE920CB	N0225051	4421	405, plus 227,228,286,299,368,402,403
Survivable MG (CPMG32) Co-Res - R7.5	NTE920DB	N0225052	4321	405, plus 227,228,286,299,368,402,403
Survivable MG (CPDC) Co-Res - R7.5	NTE930CB	N0225053	4221	405, plus 227,228,286,299,368,402,403
Survivable MG (COTS) Co-Res -R7.5	NTE940CB	N0225054	4521	405, plus 227,228,286,299,368,402,403
SIP Media Gateway (Gateway Controller):				
SIP MG (CPMG128) Co-Res Software R7.5	NTE920EB	N0225055	4421	Reference SIP Media Gateway Software Content in this document.
SIP MG (CPMG32) Co-Res Software R7.5	NTE920FB	N0225056	4321	Reference SIP Media Gateway Software Content in this document.
SIP MG (CPPM) SA Software R7.5	NTE920MB	N0225057	4021	Reference SIP Media Gateway Software Content in this document.
SIP MG (CPPM) HA Software R7.5	NTE920NB	N0225058	4021	Reference SIP Media Gateway Software Content in this document.
SIP MG (CPPM) Co-Res Software R7.5 (for Upgrades only)	NTE920PB	N0225059	4021	Reference SIP Media Gateway Software Content in this document.
Survivable SIP Media Gateway Blade:				
Survivable SIP MG (CPDC) Co-Res Software R7.5	NTE930DB	N0225060	4221	Same as Survivable MG above
Survivable SIP MG (COTS) Co-Res Software R7.5	NTE940DB	N0225061	4521	Same as Survivable MG above
Survivable SIP MG (CPPM) SA Software R7.5	NTE910MB	N0225062	4021	Same as Survivable MG above
Survivable SIP MG (CPPM) HA Software R7.5	NTE910NB	N0225063	4021	Same as Survivable MG above
Survivable SIP MG (CPPM) Co-Res Software R7.5	NTE910TB	N0225064	4021	Same as Survivable MG above

TECHNICAL ADVISEMENTS

The following section details various technical advisements that are not contained in the NTPs or may require modification of procedures or further explanation. Readers are encouraged to read this section in entirety before attempting a software installation or upgrade.

Change to Upgrade Media Kits
The upgrade media kits for CPPM servers whether Co-Resident Call Server & Signaling Server or Signaling Server will not contain a programmed hard disk drive for 7.5. This is a change from Release 6.0 where hard disk drives had been imaged with the Linux base OS. The impact to installers will be to either reimage the existing hard disk drive, or purchase a spare blank hard disk drive and install the CS 1000 Release 7.5 Linux base OS. The impact to installation times is approximately 20 minutes to reimage or install the Linux base OS on the hard disk drive.

For customers coming from VxWorks based CPPM and upgrading to CPPM Co-Res a new blank hard drive is provided in the Media Kit that will require Linux base OS installation.

Important Upgrade Procedures and Advisements

- Prior to upgrade/migration, please ensure that the latest Deplist/SP is installed for the current release of software on your system.

- **CPPM as a Primary UCM/DM server having Disk Space issue**

  Prior to upgrading you need to bring the R7.0 Servers (Primary and Members) to the current SP version first, especially for CPPM to ensure that all space utilization fixes have been deployed.

  Apply SP operation:
  The latest Release 7.0 SP would have to be loaded for the fixes to be effective.
  The recommended SP loading operation steps would be:
  - Fresh install or Upgrade CPPM server (as Primary/DM server)
  - Upload & Activate latest Linux SP (that includes the UCM/Base/PM SUs)
  - DM uploading of application NAI distributions
  - DM Deployment of applications

Problems have been reported in uploading NAI files to Deployment Manager on CPDC from client machines. This has only been noticed on the CPDC platform. It is highly recommended that any content downloaded from the download site be checked for integrity. The MD5 checksums can be computed using a utility and compared to those listed with the software package on the download site. One such utility is md5summer, available at www.md5summer.org. The checksum value of the NAI file needs to be entered in the checksum value field provided in Deployment Manager while uploading the NAI file. (Note: The checksum value is also posted on the software download site.)   Incase the checksum value is entered wrong or the file is corrupted, an error message will be displayed on the Software Load page in Deployment Manager. Please follow the alternatives mentioned in the error message to upload the NAI file.

The latest SP is required for checksums to be displayed.'

- **Note:** If you have an SSG connected to a Session Manager with TLS connection and you have applied the latest 7.5 SU, you will need to enable PI patch MPLR30526, otherwise the TLS connections will be torn down.

- **Note:** There is a limitation of 16 sets/devices that can be assigned to a single user using Subscriber Manager. Exceeding this limitation can lead to corruption of user records.

Open issues and Workarounds

The following is a list of open issues and workarounds that exist at time of publication of this document:

Multiple Release Interop Issues

- **Interop between CS1000 Release 6.0 and CS1000 Release 7.5**
  Comment: MPLR30361 (Rel 6.0 patch for Dchl expansion) needs to be applied if there is planned interop between 7.5 and Rel 6 systems.

- **wi00819871 –TRO not working if a Rls 6.0 GW and a Rls 7.0 GW are communicating via SM**
  Comment: "Trunk Route optimization is not working in the case where a Rls 6.0 GW and Rls 7.0 GW are communicating via SM. The call scenario is when the call is originated on the 7.0 gateway to a user on the 6.0 gateway and the Rls 6.0 GW user has CFAC back to the same 7.0 GW
  Workaround: Turn off TRO on the Rls 6.0 GW

- **wi00826660 - Call drop on Transfer from SM to NRS 7.5 with MSAW enabled**
  Comment: Set A registered to System A (SW load: 5.00W) calls Set B registered with System B(W load 6.00R) via SIP trunk. Set B answers the call and two way speechpath is established The user on Set B presses Transfer key to transfer the call to Set C registered to System C(SW Load: 7.50L). Set B completed the transfer. (via SIP trunk). Set C answers the call.
  (System A (5.00.W) -------->SIP-------> System B (6.00.R) ---->SIP------->System C (7.50.L))
  Additional Info:
  -All sets have CLS MSAW.
  -Issue only occurs with TRO enabled.
  -Issues is reproduced only with mixed CS1000 software releases.
  Workaround: change CLS MSAW to MSBT - for Media Security nothing is changed, the call will be encrypted as well.

- **wi00826653 (One way speech path on Transfer to ACD SM - NRS 7.5 with MSAW enabled)**
Comment: IP Set A registered with System A (SW load: 5.50J) calls IP Set B registered with System B (SW load: 7.50L) via SIP trunk. Set B answers the call and two way speechpath is established. Then user on Set B presses Transfer key and transfer the call to ACD (queue) agent (IP Set C (registered with System B)). IP Set C answers the call and there is one way speech path. This problem occurs only in case CLS of all IP Sets is set to MSAW.
Workaround 1: changing CLS to MSBT
Workaround 2: change ptime value from 20 ms to 30 ms for G711 codec. In this case the above call scenario works fine even if CLS is set to MSAW.

Product Advisement for UNIStim 5 related to Zero Touch Provisioning: For customers who have pre-configured the REG entries (which includes the MAC address, the TN, and Node) within the provisioning file to enable Zero Touch for the IP Deskphones, be advised that a problem can occur related to parsing of the REG entry that may result in the IP Deskphones not coming up as expected, and instead continuing to reboot when UNIStim 5 is loaded onto the units.   The issue will impact IP Deskphones that have been pre-configured for Zero

Touch and where the REG lines still exist in the REG entry. This is a known issue that will impact IP Deskphones that have a matching MAC address already pre-configured in the REG entry. This issue will be fully addressed in the upcoming UNIStim 5.1 maintenance release expected in March 2011. In the interim, to avoid this issue the following workaround is recommended: Before loading UNIStim 5 onto the IP Deskphones, customers are advised to add a comma before the semi-colon of the REG entry. If UNIStim 5 is already loaded, and the issue exists (where the phones continue to reboot instead of coming up), the customer can then add a comma as specified above and the IP Deskphones will come up. Example: reg= 0021e1ff59cb cs1k s1 3380 096 00 00 18.

CS1000 7.5 Specific issues:

- **wi00834775: there is no speech path between 3 parties after transfer is completed**
  Comment: A limitation exists in the following call scenario:
  Two sets on node A : set 1 , set 2 and one set on node B: set 3. The nodes are configured wth SIP trunks and Media Security is configured.
  Set 1 establishes a conference between set 1 ,2 and set 3. if set 3 transfers the conference there will be no speech path.
  If set 3 uses conference instead of transfer the call will be successful.
  If set 1 or set 2 tried to transfer the conference they would be blocked .
  Note: If MSEC is not configured or H323 trunks are provisioned, then there is no problem.
  Workaround: User behind the sip trunk (i.e. set 3) needs to use conference to add in a participant.

- **wi00833173 CPMG:Database conversion problems when no IPMG are pre-configured   and wi00831131 CS1000E:Cannot change IPMG type in LD 97**
  Comment: When trying to update the IPMG configuration (IPRO) in OVL 97, IPMG_TYP0 is not prompted. The prompt is presented on the second time through.
  Workaround: change IPRO and go through the overlay once. Go through the overlay a second time. IPMG_TYP0 is now prompted and can be changed.

- **wi00835024 /wi00838119 Cannot Launch AMS EM from UCM**
  Comment: This issue continues to be investigated. There is no patch available at the time of publication of this document. However, this issue could be caused by the member server not being entered in the DNS prior to deployment of MAS by Deployment Manager. The DNS configuration should be verified.
  Note that correcting DNS configuration later on will not resolve the problem since this has to be done prior to the initial deployment.
  Workaround:
  -Enter direct URL as in https://<FQDN of MAS>:8443
   OR
  - Use local login with emergency account with http://<server FQDN>/local-login

- **wi00839337 Outgoing fax never transmitted with SIP due to media capabilities**
  Comment: SIP Trunk bridge installed on CPDC as direct SIP bridge to CS2K Swiss PSTN SIP Service provider. Make an outgoing fax (configured on XFALC) to external fax subscriber
  Call connects on far end but fax is never transmitted.
  Additional Info: This problem continues to be investigated. There is no patch or workaround available at the time of publication of this document

- **wi00839199 Gateways on RIs 7.00Q cannot register in failsafe mode when primary/alt NRS RIs 7.5 are down**
  Comment: Both Primary and Failsafe NRS must be down for this problem to occur.
  Additional Info: Require a patch for 7.0 Gateway, MPLR30613 must be installed.

- **wi00839183 Set forced into remote hold after bridge-in into SIP trunk**

Comment: Call is currently established between A and B via SIP trunk. C has a same MADN group with B, bridge in to the call; it will be put in Remote Hold status

Additional Info: This problem continues to be investigated. There is no patch or workaround available at the time of publication of this document

- **wi00838660 - (ERROR) tNPM: npmSendOLCAck: failed to answer rx channel (hsChan 0x40d2c34), chid: 1480 ansStatus -1) being printed to ss_common.log file.**

Comment: In H323 to SIP tandem calls, the following error is printed to the ss_common log file:

(ERROR) tNPM: npmSendOLCAck: failed to answer rx channel (hsChan 0x40d2c34), chid: 1480 ansStatus -1)

There is no impact to calls, but there is a possibility of this error message being printed multiple times to the log file.

- **wi00837356 - Midcall features do not work with MobileX over SBC interworking with CS2k SIP ITSP**

Comment: With Sip Trunk Bridge configured between CS1K and CS2K Swiss SIP service provider, if a Mobile X establishes a call to User B via MSA and then tries to invoke a Mid call feature (e.g. call transfer, conference and toggle), that midcall feature fails.

Additional Info: This problem continues to be investigated. There is no patch available at the time of publication of this document.

- **wi00837401: CFNA fails after BCM_set1 blind transfers CS1K_set1 to CS1K_set2 which is set forwarded to BCM_set2**

Comment: The following call scenario results in failure: Make a Sip call from CS1K_set1 to BCM50_set1, answer the call then blind transfer the call (via sip) to CS1K_set2 which is set call forward no answer (via SIP) to BCM50_set2. After completing transferring the call, the call forward fails and all sets are released.

Additional Info: This problem continues to be investigated. There is no patch available at the time of publication of this document.

Workaround: Disable TRO

Known Interoperability Issues and Workarounds

BCM/SRG
The majority of BCM interoperability issues have been resolved and fixes delivered in the January 2011 Service Pack for BCM50, 450 and SRG for BCM 6.0 release of software.
The following issues are still under investigation at the time of publishing:
- CS1000 IP set calls BCM set that is Call Forward All Calls (CFAC) to CS1000 Call Pilot results in no speech path. This issue tracked is resolve by BCM patch BCM450.R600.IPTEL-11
- CS1000 SIPLine set calls BCM set that is Call Forward All Calls (CFAC) to CS1000 Call Pilot results in no speech path. This issue tracked by BCM wi00841032.
- CS1000 SIP Line set calls BCM Unistim set which blind transfers to another BCM TDM set results in no speech path This problem does not occur if the call is transferred to a BCM Unistim set. The defect is tracked under wi00836763. A work-around for this issue is to disable Music on Hold on the BCM SIP trunk group.

CS2100
When configuring the CS2100 services, media security (Secure RTP or SAVP) must be considered. If the CS1000 is configured to provide Media Security Best Effort the gcplinev2 SIP Profile must be configured with

"Remove SRTP" unchecked, so the SRTP offers will pass untouched.

There are 2 active investigations underway with the CS2100 products.
- CS1000 presents a fax over SIP to CS2100 analog line. Fax transfer via T.38 is expected, but the CS2100 does not switch to T.38 mode. The issue I monitored by wi00824101/Q02182233.
- A CS1000 to CS2100 TDM set call is established, then the CS2100 TDM set conferences another TDM set, but the conference cannot be established. This problem does not occur if CS2100 IP sets are used. The problem is tracked via wi00836158/Q02185497.

Meeting Exchange (MX)
If the CS1000 system is configured to use Media Security: Best Effort, the Meeting Exchange must have the MX 5.2.1.28.1 or newer patch installed to allow for SIP negotiation to complete.

Forced Media Security where both the CS1000 and MX desire to use MSEC is not operational at this time. This issue is being tracked via wi00822196.

If the CS1000 is configured to use G.729 as the preferred codec, and the MX is configured to support both G.729 and G.711, a one-way speech path will occur. To work around this issue, configure the MX to support a single codec. This issue is tracked by the wi00834624.

OCS 2007 R2 (direct connect to CS 10000 R7.5 via MCM)
When an OCS client redirects a call (blind or consultative transfer) through the CS1000 and through the SM to a CM based client, the transfer fails. The issue is being tracked on the CM by defsw103223 with a fix delivery in the CS 6.0.1 SP1 in Q1 2011. An interim patch is available on the CM 6.0 via Avaya Support Service patch id 18697. Direct calls from OCS to CM clients function.

A reminder that OCS requires codec 101 to be used for RFC-2833 DTMF transmission and all endpoints in the network must be configured to use this codec.

CM
The Avaya CM does not currently support the use of SIP UPDATE to change the media path (SDP). It has been found that during blind transfer scenarios by BCM for example, that the lack of UPDATE support can lead to the loss of ring back to the person being transferred. The call does complete without issue. The CM product will introduce UPDATE/SDP support in the CM 6.2 release.

Network Call Redirection (NCR) feature on the CM is used for SIP REFER handing in SIP Carrier networks. To prevent speech path issues, ensure that NCR is not enabled on the SIP trunk groups configured for communications to the CS1000.

A limitation in the CS1000 MAS is under investigation to provide Music on Hold correctly to a CM H323 client when held by a CS1000 client. This issue is tracked by wi00839518. The call can be restored without issue.

SM with Extended Local Call (ELC) Enabled
A CS1000 client with Extended Local Call enabled, calls Call Pilot and listens to a message, then uses "Call Sender" within Call Pilot to reach a client that is on a different SIP Node (CM or CS1K). The result is that the call is dropped. The problem is under investigation via wi00834688. Disabling the ELC prevents this issue from occurring.

Modular Messaging and Avaya Aura Messaging
Testing against these 2 products has not started as of the publishing of this document. Testing will start immediately following the General Delivery of the CS1K R7.5

Other Interoperability Issues still under investigation
The following call flow (wi00838308) results in no speech path: PSTN—PRI—SRG(R6)----SIP---CS1000NodeA—

BlindTransfer---CS1000NodeB—CFNA---CallPilot. This issue is still under investigation.

APPENDIX A – CHARGEABLE SERVICE LEVEL LICENSES – ALL SYSTEMS

Service Level Licenses – all System Types – Chargeable

No changes to this table for R7.5 (same as 7.0).

With Release 5.0 and above, we have stopped selling ISM's in increments of 8, and sell IP licenses individually on a global basis. For the legacy TDM ISMs, we will sell individually in the Americas, but for Functional offering we will leave it in groups of 8 since hardware is still included.

License Mnemonics	New System Default Setting by System Type	Order Increment for New Systems & Expansions Engineered Offer	Order Increment for New Systems & Expansions Functional Offer	License Ordering Guidelines
TDM User	N/A - PBX 61C/81C N/A – 1000M SG/MG 0 – 1000E	1 - PBX 61C/81C 1 – 1000M /SG/MG 1 – 1000E	24 - PBX 61C/81C 16– 1000M /SG/MG 16 – 1000E	TDM Users will be ordered as of Release 6.0 instead of Analog, Class and Digital Users. See Note [2] below.
DECT User	N/A - PBX 61C/81C N/A – 1000M SG/MG 0 – 1000E	1 - PBX 61C/81C 1 – 1000M/SG/MG n/a – 1000E	1 - PBX 61C/81C 1– 1000M /SG/MG 1 – 1000E	* see notes below ** see note below Previously called wireless user - changed Rls 4.0
IP User	N/A - PBX 61C/81C N/A– 1000M SG/MG 0 – 1000E N/A – CS 1000E TDM	n/a - PBX 61C/81C 1 – 1000M /SG/MG 1 – 1000E N/A – CS 1000E TDM	n/a - PBX 61C/81C 1 – 1000M /SG/MG 1 – 1000E N/A – CS 1000E TDM	- In AP & EMEA - 4 IP user license provided under try & buy program [1] see note below
Basic IP User	N/A - PBX 61C/81C N/A – 1000M SG/MG 0 – 1000E N/A – CS 1000E TDM	n/a - PBX 61C/81C 1– 1000M /SG/MG 1 – 1000E N/A – CS 1000E TDM	n/a - PBX 61C/81C 1 – 1000M /SG/MG 1 – 1000E N/A – CS 1000E TDM	New license for Rls 4.0. Provides access to entry-level IP telephones to the limit of the license [1] see note below

License Mnemonics	New System Default Setting by System Type	Order Increment for New Systems & Expansions Engineered Offer	Order Increment for New Systems & Expansions Functional Offer	License Ordering Guidelines
Temporary IP User	N/A - PBX 61C/81C N/A – 1000M SG/MG 0 – 1000E N/A – CS 1000E TDM	n/a - PBX 61C/81C 1– 1000M /SG/MG 1– 1000E N/A – CS 1000E TDM	n/a - PBX 61C/81C 1 – 1000M /SG/MG 1 – 1000E N/A – CS 1000E TDM	**** see note below
DECT Visitor User	N/A - PBX 61C/81C N/A – 1000M SG/MG 0 – 1000E	1 - PBX 61C/81C 1 – 1000M /SG/MG n/a – 1000E	1 - PBX 61C/81C 1– 1000M /SG/MG 1 – 1000E	This license is only used in EMEA and Asia ** see note below
ACD Agents User	N/A - PBX 61C/81C N/A – 1000M SG/MG 10 – 1000E	1 - PBX 61C/81C 1 – 1000M /SG/MG 1 – 1000E	1 - PBX 61C/81C 1 – 1000M /SG/MG 1 – 1000E	10 ACD Agent users will be provisioned for all New system types in all regions. Applicable for any service level ordered. No additional pricing activity price required.
MOBX for Mobile Extensions	N/A – PBX 61C/81C N/A – 1000M SG/MG 0 – 1000E	n/a – PBX /61C/81C 1 – 1000M /SG/MG 1 – 1000E	n/a – PBX /61C/81C 1 – 1000M /SG/MG 1 – 1000E	These increments apply to a standalone 1000M, 1000E systems. Also available for the branch, MG 1000B. Not available on DSN System Not available on CPII. For Release 5.5 and later only.
FMCL for Fixed Mobile Convergence	N/A – PBX 61C/81C N/A – 1000M SG/MG 0 – 1000E N/A – CS 1000E TDM	n/a – PBX /61C/81C 1 – 1000M /SG/MG 1 – 1000E N/A – CS 1000E TDM	n/a – PBX /61C/81C 1 – 1000M /SG/MG 1 – 1000E N/A – CS 1000E TDM	These increments apply to a standalone 1000M, 1000E systems. Not available on DSN System For Release 5.5 and later

License Mnemonics	New System Default Setting by System Type	Order Increment for New Systems & Expansions Engineered Offer	Order Increment for New Systems & Expansions Functional Offer	License Ordering Guidelines
				only.
SIPN for SIP Clients	N/A – PBX 61C/81C N/A – 1000M SG/MG 0 – 1000E N/A – CS 1000E TDM	n/a – PBX /61C/81C 1 – 1000M /SG/MG 1 – 1000E N/A – CS 1000E TDM	n/a – PBX /61C/81C 1 – 1000M /SG/MG 1 – 1000E N/A – CS 1000E TDM	1. These increments apply to a standalone 1000M, 1000E systems. 2. Not available on DSN System 3. For Release 5.5 and later only. 4. Must be included in system IP count total (system total cannot be greater than 22, 500 on a CS1000E or 15,000 on a CS1000M)) 5. Not supported on CS 1000E TDM system (6.0) 6. Supported for MG 1000B at release 6.0 and later.
TLSV for Telephony Services	N/A – PBX 61C/81C N/A – 1000M SG/MG 0 – 1000E N/A – CS 1000E TDM	n/a – PBX /61C/81C 1 – 1000M /SG/MG 1 – 1000E N/A – CS 1000E TDM	n/a – PBX /61C/81C 1 – 1000M /SG/MG 1 – 1000E N/A – CS 1000E TDM	1. These increments apply to a standalone 1000M, 1000E systems. 2. Not available on DSN System 3. For Release 5.5 and later only. 4. Must be included in system IP count total (system total cannot be greater than 22, 500 on a CS1000E or 15,000 o a CS1000M)

License Mnemonics	New System Default Setting by System Type	Order Increment for New Systems & Expansions Engineered Offer	Order Increment for New Systems & Expansions Functional Offer	License Ordering Guidelines
SIP3 for 3rd Party SIP Clients	N/A – PBX 61C/81C N/A – 1000M SG/MG 0 – 1000E N/A – CS 1000E TDM	n/a – PBX /61C/81C 1 – 1000M /SG/MG 1 – 1000E N/A – CS 1000E TDM	n/a – PBX /61C/81C 1 – 1000M /SG/MG 1 – 1000E N/A – CS 1000E TDM	1. These increments apply to a standalone 1000M, 1000E systems. 2. Not available on DSN System 3. For Release 5.5 and later only. 4. Must be included in system IP count total (system total cannot be greater than 22, 500 on a CS1000E or 15,000 o a CS1000M) 5. Supported for MG 1000B at release 6.0 and later.
IP Attendant Users	NA - PBX 61C/81C N/A1000M SG/MG 0 – 1000E N/A – CS 1000E TDM	n/a – PBX /61C/81C N/A – 1000M /SG/MG 1 – 1000E N/A – CS 1000E TDM	n/a – PBX /61C/81C N/A – 1000M /SG/MG 1 – 1000E N/A – CS 1000E TDM	Release 7.0 and later Media Services package and IP Attendant users don't apply to SIP Media Gateway

Please Note: IP and Basic IP users are not supported on TDM systems in Rls 5.0 or above. If a TDM customer has existing IP or Basic IP ISMs and they want to upgrade to Release 5.0 or above, the EC tool will tell them that they either have to migrate to a CS 1000 system type, or if they want to stay TDM, the tool will zero out their IP.

* For N. America and CALA DECT User license are used for Upgrades, Expansions & Transfers of Companion enabled systems only.
* The DECT User license is not supported on N. American , CS1000E and Media Gateway 1000B systems
* N. American and CALA Companion DECT licenses can be moved from an existing pre Rls 3.0 system to the CVSD structure using OrderPro.
* DECT User Licenses are used in EMEA and Asia to support the DECT Wireless product on all products including Communication Server 1000S and the Branch Office.

**

   Note: chas = chassis   cab = cabinet
   Note: HG = half group   SG = single group   MG = multi group

***

**** IP User

Basic IP User

Temporary IP User

The current limitation to Total number of the IP users will be the sum of = IP User + Basic IP User + Temporary IP User

Transfer roles are the same for other IP User License

Introducing the concept of Overflow between Temporary IP User and the other two Licenses

****Temporary IP User

The Temp ISM will be orderable on all CS 1000 systems (i.e. CS 1000E and CS 1000M SG, MG), and is orderable on both Tier 1 and Tier 2 defer

Temporary IP user is orderable in increments of 1 but has a minimum order quantity of 100.

APPENDIX B – CHARGEABLE SYSTEM LEVEL LICENSES – ALL SYSTEMS

System Licenses - all System Types – Chargeable

Note: ELC Access Ports is a new System License that is introduced with Release 7.5 but since it is not chargeable, it has not been added to this table**.**

License Mnemonics	New System Default Setting by System Type	Order Increment for New Systems and Expansions (Engineered & Functional Offer)	License Ordering Guidelines
Personal Call Assistant	0 – PBX 61C/81C 0 – 1000M SG/MG 0 – 1000 E	1 – PBX /61C/81C 1 – 1000M /SG/MG 1 – 1000 E	These increments apply to a standalone M1, 1000M, 1000E systems
ITG ISDN Trunk	0 – PBX 61C/81C 0 – 1000M SG/MG 0 – 1000 E	n/a – PBX /61C/81C n/a – 1000M /SG/MG n/a – 1000 E	IP trunk on TDM systems is supported in Release 5.0 ITG ISDN Trunk is NOT supported on 6.0 New systems or upgrades to 6.0
H323 Access Port	0 – PBX 61C/81C 0 – 1000M SG/MG 0 – 1000 E	n/a – PBX /61C/81C 1 – 1000M /SG/MG 1 – 1000 E	Not supported on CS 1000E TDM.
SIP Access Port	0 – PBX 61C/81C 0 – 1000M SG/MG 0 – 1000 E	n/a – PBX./61C/81C 1 – 1000M/SG/MG 1 – 1000 E	New license for Rls 4.0. Provides SIP Access ports to the limit of the license Not supported on CS 1000E TDM.
AST license	1 – PBX 61C/81C 1 – 1000M SG/MG 1 – 1000 E	1 - PBX /61C/81C 1 – 1000M /SG/MG 1 – 1000 E	license controls Avaya & 3rd party applications
RAN CON license	0 - PBX 61C/81C 0 – 1000M SG/MG 0 – 1000 E	1 - PBX /61C/81C 1 – 1000M /SG/MG 1 – 1000 E	See Special Note below.***

	0 - PBX 61C/81C	1 - PBX /61C/81C	
MUS CON license	0 – 1000M SG/MG 0 – 1000 E	1 – 1000M /SG/MG 1 – 1000 E	Se Special Note blow.***
Survivability license	0 – PBX 61C/81C 0 – 1000M SG/MG 0 – 1000 E	n/a – PBX 61C/81C n/a – 1000M /SG/MG n/a – 1000 E	Not supported on any system type
SIP CONVERGED DESKTOPS	0 – PBX 11C chas/cab 0 – PBX 61C/81C 0 – 1000M SG/MG 0 – 1000E	n/a – Opt 11C chas/cab n/a – PBX 61C/81C 1 – 1000M /SG/MG 1 – 1000E	Not supported on CS 1000E TDM.
SIP CTI TR87	0 - PBX 11C chas/cab 0 - PBX 61C/81C 0 – 1000M SG/MG 0 – 1000E	n/a - PBX 11C chas/cab n/a - PBX 61C/81C 1 – 1000M /SG/MG 1 – 1000E	Not supported on CS 1000E TDM.
IP Media Services	1 – 1000E	1 – 1000E	Not supported on CS 1000E TDM
IP RAN	1 – 1000E	1 – 1000E	Not supported on CS 1000E TDM
IP MUSIC	1 – 1000E	1 – 1000E	Not supported on CS 1000E TDM

****ITG ISDN Trunk License:

As with Release 6.0 we will NOT support ITG Trunks on New system sales in Release 7.0, or on upgrades of existing systems to Release 7.0.

APPENDIX C – MANAGED SOFTWARE FEATURES

Country Specific features

With Release 7.5, package 423 has been introduced to disable media encryption, which is only applicable to Russia, Kazahkstan, and Belarus from the EMEA region.

Country Specific features will be handled in the following two ways:
1. Included in a regional service level. i.e.: Package 347 - Taiwan CO R1 Modified Signaling - included in service Tier 1
2. Optional Ordered i.e.: Package 171 Japan Tone & Digit Switch - Optional order at Tier 1

Mutually Exclusive (*me*)

There are no changes to the mutually exclusive features with CS 1000 Release 7.5

With Succession Enterprise Software Release 3.0, the Mutually Exclusive order management and configuration rules for the following software feature packages were removed. These feature packages have been integrated into the Global Service Levels for each Region (na = not applicable)

Package 56 AOP	assigned to Tier 1 for all Regions
Packages 26 CASM & 27 CASR	assigned to Tier for CALA, N. America (na for EMEA & Asia)
Package 134 AFNA	assigned to Tier 1 for CALA, Asia & EMEA. (na for N. America)
Package 159 NAS	assigned to Tier 2 all Regions
Package 174 AAA	assigned to Tier 1 for all Regions

The following packages remain mutually exclusive (me) and optionally orderable for all Regions

Note: Package 15 and Package 165 are mutually exclusive but were retired in CS 1000 Release 4.0 and will not be provisioned on new or upgraded systems.   The packages are still available for pre-CS 1000 Release 4.0 systems.

Package 97 - JCO	Japan CO Trunks me with 223 FCC68
Package 171 - JTDS	Japan Tone & Digit switch me 69&106
Package 405 – GRSEC	is mutually exclusive with Package 404 – GRPRIM. Applicable to CPP provisioned CS 1000M SG and MG systems, in addition to CS 1000E systems. Applicable to CPP provisioned DSN CS 1000M SG and MG systems, in addition to DSN CS 1000E systems.

Package 405 – GRSEC - Geographic Redundancy Secondary Call Server is mutually exclusive with package 404 – GRPRIM Geographic Redundancy Primary Call Server. Package 405 can only be enabled on the following system types:
- PBX 61C and 81C – CPP Call Server equipped systems only
- Communication Server 1000M SG and MG – CPP Call Server equipped systems only
- Communication Server 1000E

Restricted Features

There are no new "Restricted" packages introduced in Release 7.5.

Retired Features

There are no new Retired packages introduced in Release 7.5.

Package 65 TDET and package 246 VMB were Retired Features as of Release 7.0

The TDET package is no longer supported because TDET hardware is currently only available to the global market in an EPE form factor.

The VMB package allows coordination of CS1000 DN configurations with Voice Mailbox Configuration on Meridian Mail. Meridian Mail is not supported with CS 1000 Release 6.0 and later, so the VMB feature is also no longer applicable.

Inline Software Conversion is an inherent capability within the system software.

Appendix D - Global Minimum License Order Increments for New Systems

EMEA/AP/NA/CALA New Communication Server 1000E Systems

- **Service ISMs -** a minimum quantity 24 of one or a combination of the following User License types must be ordered: TDM Users (formerly Analog, Class, Digital), DECT, Regular IP or Basic IP licenses, SIPN, SIP3 or MOBX, Converged Office User license for Microsoft OCS, IP Attendant Users, OR 100 Temporary IP users..

- **System ISMs –** One of the following Trunk Type must be ordered

    - Traditional Trunk i.e.: Digital/Analog – no ISM required for Traditional Trunks
              OR
    - 8 - H323 Access Port Licenses
              OR
    - 8 - SIP Access Port Licenses

      MCG is already included in new system marketing packages.

APPENDIX E - X11/X21 RETIRED SOFTWARE FEATURE PACKAGES

Retired Feature Packages not used commercially in any Market - Globally

		Retired Feature Packages (Not Used Commercially)	
3	AIOD	Auto-Ident. of Outgoing Calls	
6	CLNK	CDR on Data Link	n/a
15	RPE1.5	1.5 Mbit Remote Peripheral Equipment	MD X21-4.0
30	CMAC	Network Comm. Mgmt Center Interface	
31	MCDR	Mini CDR	
65	TDET	MF Tone Detector LargeSystems Only	
66	SCC	SL-1 TDET Special Common Carrier	
78	AMP	Automated Modem Pooling	5
82	RESDB	Resident Debug	9.30A
84	ATM	Automatic Trunk Maintenance	9.30A MD X21-3.0
85	CSLA	CSL with Alpha Signaling	8
94	JTDS	Japan specific	9.30A
96	SLST	Meridian SL-1 ST	9.30A
112	NKL	Notification Key Lamp	14.41D
130	NIL PTR	Pkg not in use	
136 Not Retired	Moved to	Default Level 1 Japan Large system only	
142	AHLD	Pkg was defined as "AHLD" but never used	
165	RPE2	2.0 Mbit Remote Peripheral Equipment	MD X21-4.0
166	HOSP	Hospital Management	
168	TMON	Traffic Monitoring	
176	DTOT	DID to Tie	16.87G
177		Pkg not used	15.56F
230	MDP	Manufactured Delivered Patches	20.06
246	VMB	Voice Mail Box	
257	EQA	32, (for FCC) discontinued 20.19B	20.06A
264	MLMS BRZ	Brazilian	20.06A
265	MLMS PRC	Mainland Chinese - PRC	20.06A
266	MLMS ROC	Taiwan Chinese	20.06A
267	MLMS DAN	Danish	20.06A
268	MLMS DUT	Dutch	20.06A
269	MLMS FIN	Finish	20.06A
270	MLMS FRC	French Canadian	20.06A
271	MLMS FRE	Euro French	20.06A
272	MLMS GER	German	20.06A
273	MLMS ITL	Italian	20.06A

274	MLMS JPN	Japanese	20.06A
275	MLMS KOR	Korean	20.06A
276	MLMSNRW	Norwegian	20.06A
277	MLMS RUS	Russian	20.06A
278	MLMS SPE	Euro Spanish	20.06A
279	MLMSLASP	Latin American Spanish	20.06A
280	MLMS SWE	Swedish	20.06A
281	ZPAG	not introduced	25.0x
293	TAT	Trunk Anti-Tromboning	21.32C
302	MOSR	Mobility Server	22.08A
303	MMO	Mobility Microcellular	22.08A
314	MMSN	Mobility Multisite Network	22.08A
344	GCM	German - Call Monitoring SORM	24.04A
345	UWIN	Universal Wireless Interactive Networking	24.04A
346	SMS	never used/not available	24.04A
352	MMCS	never used/not available	24.04A
371	KAP_AUT	Kapsh side stream – Austria	
372	KAP_CR	Kapsh side stream – CZ/SK	
373	KAP_HUNG	Kapsh side stream – Hungary	
374	KAP_PL	Kapsh side stream – Poland	
375	KAP_CIS	Kapsh side stream – CIS	
376	KAP_ACD	Kapsh side stream – ACD	
383	R25 Lite	R25 Lite-Restricted, Not used after 25.08	25.07W 24C

APPENDIX F CS 1000 SOFTWARE CONTENT

Asia

The features in the table below are included automatically in the appropriate service level for ALL machine types and ALL countries in the region when the Service licenses for the service level are ordered for New Systems.

Note Package 337 is not applicable to Asia-Pacific.

Tier 2   Premium Service Package   NTE935AH - N0225028

38, 39, 62, 67, 159, 183, 188, 192, 207, 219, 231, 305, 313, 316, 321, 335, 348, 370

Tier 1   Enhanced Service Package   NTE931AI - N0225029

0, 1, 2, 4, 5, 7, 8 ,9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 23, 24, 25, 28, 29, 32, 33, 34, 35, 36, 37, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 63, 64, 70, 71, 72, 73, 74, 75, 76, 77, 79, 80, 81, 83, 86, 87, 88, 89, 90, 91, 92, 93, 95, 98, 99, 100, 101, 102, 103, 104, 105, 107, 108, 109, 110, 111, 113, 114, 115, 116, 117, 118, 119, 120, 122, 123, 124, 125, 127, 128, 129, 132, 133, 134, 137, 138, 139, 140, 141, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 157, 160, 161, 162, 163, 164, 167, 169, 170, 172, 173, 174, 175, 178,179, 180, 181, 182, 184, 185, 186, 187, 191, 193, 195,198, 202, 203, 204, 205, 206, 208, 209, 210, 211, 212, 214, 215, 216, 218, 222, 225, 229, 233, 234, 235, 236, 240, 242, 243, 245, 247, 250, 251, 253, 254, 255, 256, 258, 259, 261, 263, 283, 289, 294, 296, 297, 301, 306, 307, 308, 309, 310, 311, 312, 315, 323, 324, 327, 328, 332, 333, 347, 349, 350, 351, 362, 364, 380, 381, 382, 384, 386, 387, 388, 389, 394, 397, 398**,** 399**,** 400, 401,406, 407, 408, 415, 416

DEFAULT FEATURES FOR ASIA

The following features will automatically be added to New System keycodes when the conditions are met:

227, 228, 286, & 368:   for all countries – in Tier 1 – for all PBX 61C & CS 1000M SG

227, 228, 286, 368, 365 & 299 for all countries – in Tier 1 for all PBX 81C & CS 1000M MG

227, 228, 286, 299 & 368   for all countries – in Tier 1 for CS 1000E

97   JCO   for Japan – in Tier 1 for all large and small systems

121   SCMP   for Japan – in Tier 1 for all system types

136   JDMI   for Japan – inTier 1 for large systems only

171   JTDS   for Japan – in Tier 1 for all large and small systems

126, 285 & 292   for China – in Tier 1 for all large and small systems

OPCB, CHINA, CHTL

288	DPNSS-ES	for AP and China (is na for Japan) – in Tier 2 for all system types
131	SUPP	for AP and China – in Tier 2 for all system types
284	DPNSS 1891	for AP and China (is na for Japan) – in Tier 2 for all system types
325	DMWI	for AP and China (is na for Japan) – in Tier 2 for all system types
402 & 403		for all countries – in Tier 1 for CS 1000E
SOFTSWITCH & IPMG		
404 GRPRIM		for all countries – in Tier 1 for CS 1000E & CS 1000M SG, MG

410 – High Availability - This package must be automatically added as default to the software when any of the following system types are ordered: PBX 61C (CP PII/CP PIV), PBX 81C (CP PII/CP PIV), CS 1000M Single Group (CP PII/CP PIV), CS 1000M Multi Group (CP PII/CP PIV), CS 1000E CP PII/CPPIV or CS 1000E CPPM High Availability.

The High Availability package (410) should NOT be added as default for the CS 1000E CPPM Standard Availability system type or to the CS 1000E Co-Res Call Server/Signaling Server system as it is not applicable. If customers want to upgrade to High Availability, they need to order the proper upgrade package. Please refer to section 13.2 for details.

417 – SIP Line – added for all countries for all systems except CS 1000E TDM

418 – MGP – must be added, for all countries in Asia, to CS 1000E only for r5.5 or later.
- allows use of two DCH ports: 0 and 1 in DDCH DB used with MG 1000E PRI Gateway
- allows use of 2x96 DSP DB with MG 1000E PRI Gateway (defining slot 9 and 10 of MG 1000E as DSP resources)

420 – ZBD – Zone-based Dialing– added for all countries for all systems except CS 1000E TDM

421 – High Scalability added for all countries when CS 1000E High Scalability is selected – in Tier 2 (Premium s/w level only)

422 – IP Media Services default added for all countries for CS 1000E (including HS but excluding CS 1000E TDM) – automatically provisioned when IP Media Services feature is selected.

OPTIONAL FEATURES FOR ASIA
The following features will be added New Systems when the Order Code for the feature is ordered.

22	DISA	for all countries in AP - can be added to any level for any system types
57	BARS	for all countries in AP - can be added to any level for any system types
121	SCMP	for AP & China – can be added to any level for any system type
131	SUPP	for Japan only – can be added to any level for any system type
291	NI2	for Japan only – can be added to any level for any system
158	FGD	for India only, large systems only at T2.
393	UUI	for India only, large systems only for T1 or higher.

NOTE – Package 336 – Emergency services (ESA SUBNET LIS) is NOT Applicable for Asia-Pacific.

405   GRSEC NT5Y19BA   <u>for all countries in AP</u> – can be added to Tier 1 for CS 1000E & CS 1000M SG, MG. Will add feature 405 and remove feature 404. Package 405 is also required for the Survivable Media Gateway feature, which is only applicable to CS 1000E systems

404   GRPRIM NT5Y19EA   <u>for all countries in AP</u> - will add feature 404 and remove feature 405 for CS 1000E & CS 1000M SG, MG.

409 GL_PLUGIN NTE95051/ N0130989 <u>for all countries in AP</u> - can be added to any level for any system types

Note: Package 408 is now included in base software.

223, 291, 334, 385   <u>for India only</u>, large systems only at T1 or higher

N.A. Trunk Package

411 ACD Package   any country in Tier 1 any system type (ACD Feature Enhancement package)

CALA

The features in the table below are included automatically in the appropriate service level for ALL machine types and ALL countries in the region when the Service licenses for the service level are ordered for New Systems.

Tier 2 Premium Service Package NTE925AH – N0225030	
38, 39, 62, 67, 158, 159, 183, 188, 192, 207, 219, 231, 262, 284, 288, 305, 316, 321, 325, 348	
Tier 1 Enhanced Services Package NTE921AI – N0225031	
0, 1, 2, 4, 5, 7, 8 ,9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 23, 24, 25, 26, 27, 28, 29, 32, 33, 34, 35, 36, 37, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 63, 64, 70, 71, 72, 73, 74, 75, 76, 77, 79, 80, 81, 83, 86, 87, 88, 89, 90, 91, 92, 93, 95, 98, 99, 100, 101, 102, 103, 104, 105, 107, 108, 109, 110, 111, 113, 114, 115, 116, 117, 118, 119, 120, 122, 123, 124, 125, 126, 127, 128, 129, 131, 132, 133, 134, 135,137, 138, 139, 140, 141, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 157, 160, 161, 162, 163, 164, 167, 169, 170, 172, 173, 174, 175, 178, 179, 180, 181, 182, 184, 185, 186, 187, 189, 191, 193, 195, 196, 198, 202, 203, 204, 205, 206, 208, 209, 210, 211, 212, 214, 215, 216, 218, 222, 223, 224, 225, 229, 232, 233, 234, 235, 236, 240, 242, 243, 245, 247, 249, 250, 251, 253, 254, 256, 258, 259, 261, 263, 283, 289, 290, 291, 294, 296, 297, 301, 306, 307, 308, 309, 310, 311, 312, 315, 323, 324, 327, 328, 329,330, 331, 332, 333, 334, 337, 350, 351, 362, 364, 367, 380, 381, 382, 384, 385, 386, 387, 388, 389, 393, 394, 397, 398, 399, 400, 401, 406, 407,408, 415, 416	

DEFAULT FEATURES FOR CALA: the following features will automatically be added to New System Keycodes when the conditions are met:

227, 228, 286, & 368	for all countries in CALA – in Tier 1 – for all PBX 61C & CS 1000M SG
227, 228, 286, 368, 365 & 299	for all countries in CALA – in Tier 1 for all PBX 81C & CS 1000M MG
227, 228, 286, 299 & 368	for all countries in CALA – in Tier 1 for CS 1000E
402 & 403	for all countries in CALA – in Tier 1 for CS 1000E
404	for all countries in CALA – in Tier 1 for CS 1000E &,
	CS 1000M SG, MG

410 – High Availability - This package must be automatically added as default to the software when any of the following system types are ordered: PBX 61C (CP PII/CP PIV), PBX 81C (CP PII/CP PIV), CS 1000M Single Group (CP PII/CP PIV), CS 1000M Multi Group (CP PII/CP PIV), CS 1000E CP PII/CPPIV or CS 1000E CPPM High Availability.

The High Availability package (410) should NOT be added as default for the CS 1000E CPPM Standard Availability system type or to the CS 1000E Co-Res Call Server/Signaling Server system as it is not applicable. If customers want to upgrade to High Availability, they need to order the proper upgrade package. Please refer to section 13.2 for details.

417 – SIP Line – added for all countries for all systems except CS 1000E TDM

418 – MGP – must be added, for all countries to CS 1000E only for r5.5 or later.
* allows use of two DCH ports: 0 and 1 in DDCH DB used with MG 1000E PRI Gateway
* allows use of 2x96 DSP DB with MG 1000E PRI Gateway (defining slot 9 and 10 of MG 1000E as DSP resources)

420 – ZBD – Zone-based Dialing– added for all countries for all systems except CS 1000E TDM

421 – High Scalability added for all countries when CS 1000E High Scalability is selected – in Tier 2 (Premium s/w level only)

422 – IP Media Services default added for all countries for CS 1000E (including HS but excluding CS 1000E TDM) – automatically provisioned when IP Media Services feature is selected.

OPTIONAL FEATURES FOR CALA – the following features will be added New Systems when the Order Code for the feature is ordered.

22	DISA	NTE95002 - A0511884	for all countries in CALA - can be added to any level for any system type
57	BARS	NTE95006 - A0511932	for all countries in CALA - can be added to any level for any system type
197	FTA	NTE95018 - A0511945	for all countries in CALA– any system level for any system type
248	MPH	NTE95034 - A0517114	for all countries in CALA - any level for Large Systems, except CS 1000E
336	ESA SUBNET LIS	NTE95050/ N0130988 –	for all countries in CALA – on all CS 1000 system types

405 GRSEC NTE980KS - A0553861   <u>for all countries in CALA</u> – can be added to Tier 1 for CS 1000E & CS 1000M SG, MG systems. Will add feature 405 and remove feature 404. Package 405 is also required for the Survivable Media Gateway feature, which is only applicable to CS 1000E systems.

404   GRPRIMNTE960KA   <u>for all countries in CALA</u> – will add feature 404 and remove feature 405

Note: Package 408 is now included in base software.

409   **GL_PLUGIN** NTE95051/ N0130989 <u>for all countries in CALA</u> can be added to any level for any system type.

411 ACD Package   any country in Tier 1 any system type (ACD Feature Enhancement package)

EMEA:

The features in the table below are included automatically in the appropriate service level for ALL machine types and ALL countries in the region when the Service licenses for the service level are ordered for New Systems.

Tier 2	Premium Service Package	NTE945AH - N0225032
:
 38, 39, 62, 67, 159, 183, 188,192, 207, 231, 262, 288, 305, 316, 321, 325, 348, 370

Tier 1	Enhanced Service Package	NTE941AI - N0225033

0, 1, 2, 4, 5, 7, 8 ,9, 10, 11, 14, 16, 17, 18, 19, 20, 21, 23, 24, 25, 28, 29, 32, 33, 34, 35, 36, 37, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 63, 64, 70, 71, 72, 73, 74, 75, 76, 77, 79, 80, 81, 83, 86, 87, 88, 89, 90, 91, 92, 93, 95, 98, 99, 100, 101, 102, 103, 104, 107, 108, 109, 110, 111, 113, 114, 115, 116, 118, 119, 120, 122, 123, 124, 125, 127, 128, 129, 131, 132, 133, 134 137, 138, 139, 140, 141, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 157, 160, 161, 162, 163, 164, 167, 169, 170, 172, 173, 174, 175, 178, 179, 180, 181, 182, 184, 185, 187, 191, 193, 196, 198, 202, 203, 204, 205, 206, 208, 209, 210, 211, 212, 214, 215, 216, 218, 222, 225, 229, 233, 234, 235, 236, 240, 242, 243, 245, 247, 250, 251, 253, 254, 256, 258, 259, 261, 263, 283, 289, 296, 297, 301, 306, 307, 309, 311, 312, 315, 323, 324, 327, 328, 329, 330, 331, 332, 333, 337, 350, 351, 362, 364, 366, 367, 380, 381, 382, 384, 386, 387,388, 389, 394, 397, 398, 399, 400, 401, 406, 407, 408, 415, 416

DEFAULT FEATURES FOR EMEA – the following features will automatically be added to New System or keycodes when the conditions are met:

227, 228, 286, & 368		for all countries – in Tier 1 – for all PBX 61C & CS 1000M SG
227, 228, 286, 368, 365 & 299		for all countries – in Tier 1 for all PBX 81C & CS 1000M MG
227, 228, 286, 299 & 368		for all countries – in Tier 1 for CS 1000E
402 & 403		for all countries – in Tier 1 for CS 1000E
404		for all countries – in Tier 1 for CS 1000E & CS 1000M SG/MG
135	MFE	for France – in Tier 1 for any system type.
186	POVR	for Tele Denmark, Finland and Schrack Poland – in Tier 1 for any system type.
190	UK	for UK BT and UK Other – in Tier 1 for any system type.
197	FTA	for Schrack Poland and France – in Tier 1 for all System types
221	CIST	for Turkey and CIS – in Tier 1 for any system type.
232	PEDM	for Schrack Poland and France - in Tier 1 for Large Systems
252	KD3	for Spain and Portugal – in Tier 1 for any system type.
326 & 221	CISMFS	for CIS - in Tier 1 for any system type.

410 – High Availability - This package must be automatically added as default to the software when any of the following system types are ordered: PBX 61C (CP PII/CP PIV), PBX 81C (CP PII/CP PIV), CS 1000M Single Group (CP PII/CP PIV), CS 1000M Multi Group (CP PII/CP PIV), CS 1000E CP PII/CPPIV or CS 1000E CPPM High Availability.

The High Availability package (410) should NOT be added as default for the CS 1000E CPPM Standard Availability system type or to the CS 1000E Co-Res Call Server/Signaling Server system as it is not applicable. If customers want to upgrade to High Availability, they need to order the proper upgrade package. Please refer to section 13.2 for details.

417 – SIP Line – added for all countries for all systems except CS 1000E TDM

418 – MGP – must be added, for all countries to CS 1000E only for r5.5 or later.
- allows use of two DCH ports: 0 and 1 in DDCH DB used with MG 1000E PRI Gateway
- allows use of 2x96 DSP DB with MG 1000E PRI Gateway (defining slot 9 and 10 of MG 1000E as DSP resources)

420 – ZBD – Zone-based Dialing– added for all countries for all systems except CS 1000E TDM

421 – High Scalability added for all countries when CS 1000E High Scalability is selected – in Tier 2 (Premium s/w level only)

422 – IP Media Services default added for all countries for CS 1000E (including HS but excluding CS 1000E TDM) – automatically provisioned when IP Media Services feature is selected.

423 – DME - Disable Media Encryption – Added for Russia, Belarus and Kazakhstan only for **ALL** Release 7.5 and later systems

OPTIONAL FEATURES FOR EMEA – the following features will be added New Systems when the Order Code for the feature is ordered.

22	DISA	for all countries in EMEA - can be added to any level for any system type
57	BARS	for all countries in EMEA except Schrack Damova Poland - can be added to any level for any system type
121	SCMP	for all countries in EMEA – can be added to any level for any system type
186	POVR	any country other than Denmark/Finland/Poland -any level any system type
221	CIST	for Finland & Poland – add to any level for any system type.
284	DPNSS	for all countries in EMEA-can be added to T2 for any system type
304	ARDL	for Israel – can be added to any level for any system type
353	SORM	for CIS and Metco Oman –Package 353 can be added to any Service package for any supported system below:

61C/CS 1000M SG	NTFZ39CA
81C/CS 1000M MG/CS 1000E	NTFZ39DA

336 – ESA SUBNET LIS NTE95050/ N0130988   for all countries in EMEA - can be added to any level for any CS 1000 system type

405   GRSEC   NT5Y19BA   for all countries in EMEA – can be added to Tier 1 for CS 1000E & CS 1000M SG, MG systems. Will add feature 405 and remove feature 404. Package 405 is also required for the Survivable Media Gateway feature, which is only applicable to CS 1000E systems

404   GRPRIM NT5Y19EA   for all countries in EMEA – will add feature 404 and remove feature 405

395 M3900Med   <u>for Israel</u> - can be added to any level for any system type
396 & 304 M3900 RGA   <u>for Israel</u> - can be added to any level for any system type

326&221 CISMFS   <u>for Turkey, Finland, Poland</u> – add to any level for any system type.

Note: Package 408 is now included in base software.

409 GL_PLUGIN NTE95051/ N0130989   <u>for all countries in EMEA</u> - can be added to any level for any system type

411 ACD Package   any country in Tier 1 any system type (ACD Feature Enhancement package)

North America

The features in the table below are included automatically in the appropriate service level for ALL machine types and ALL countries in the region when the Service licenses for the service level are ordered for New Systems.

Tier 2	**Premium Service Package**	**NTE915AH - N0225034**

38, 39, 62, 67, 158, 159, 183, 192, 207, 219, 305, 316, 321, 348

Tier 1	**Enhanced Service Package**	**NTE911AI – N0225035**

0, 1, 2, 4, 5, 7, 8 ,9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 23, 24, 25, 26, 27, 28, 29, 32, 33, 34, 35, 36, 37, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 63, 64, 70, 71, 72, 73, 74, 75, 76, 77, 79, 80, 81, 83, 86, 87, 88, 89, 90, 91, 92, 93, 95, 98, 99, 100, 101, 102, 103, 105, 107, 108, 109, 110, 111, 113, 114, 115, 116, 117, 118, 119, 120, 121, 125, 127, 129, 132, 133, 139, 140, 141, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 157, 160, 161, 162, 163, 164, 167, 170, 172, 173, 174, 175, 178, 179, 180, 181, 184, 185, 186, 191, 202, 203, 204, 205, 206, 208, 209, 210, 212, 214, 215, 216, 218, 222, 223, 224, 225, 229, 233, 234, 235, 240, 242, 243, 245, 247, 249, 250, 251, 253, 254, 256, 258, 259, 261, 263, 291, 296, 297, 301, 306, 307, 310, 311, 312, 315, 324, 327, 328, 329, 330, 331, 332, 333, 334, 337, 350, 351, 362, 364, 380, 381, 382, 384, 385, 386, 387, 388, 393, 394, 397, 398, 399, 400, 401, 406, 407, 408, 415, 416

DEFAULT FEATURES FOR NORTH AMERICA– the following features will automatically be added to New System or keycodes when the conditions are met:

227, 228, 286, & 368	for all countries – in Tier 1 – for all PBX 61C & CS 1000M SG
227, 228, 286, 368, 365 & 299	for all countries – in Tier 1 for all PBX 81C & CS 1000M MG
227, 228, 286, 299 & 368	for all countries – in Tier 1 for CS 1000E
402 & 403	for all countries – in Tier 1 for CS 1000E
404	for all countries – in Tier 1 for CS 1000E & CS 1000M SG/MG

410 – High Availability - This package must be automatically added as default to the software when any of the following system types are ordered: PBX 61C (CP PII/CP PIV), PBX 81C (CP PII/CP PIV), CS 1000M Single Group (CP PII/CP PIV), CS 1000M Multi Group (CP PII/CP PIV), CS 1000E CP PII/CPPIV or CS 1000E CPPM High Availability.

The High Availability package (410) should NOT be added as default for the CS 1000E CPPM Standard Availability system type or to the CS 1000E Co-Res Call Server/Signaling Server system as it is not applicable. If customers want to upgrade to High Availability, they need to order the proper upgrade package. Please refer to section 13.2 for details.

417 – SIP Line – added for all countries for all systems except CS 1000E TDM

418 – MGP – must be added, for all countries to CS 1000E only for r5.5 or later.
- allows use of two DCH ports: 0 and 1 in DDCH DB used with MG 1000E PRI Gateway
- allows use of 2x96 DSP DB with MG 1000E PRI Gateway (defining slot 9 and 10 of MG 1000E as DSP resources)

420 – ZBD – Zone-based Dialing– added for all countries for all systems except CS 1000E TDM

421 – High Scalability added for all countries when CS 1000E High Scalability is selected – in Tier 2 (Premium s/w level only)

422 – IP Media Services default added for all countries for CS 1000E (including HS but excluding CS 1000E TDM) – automatically provisioned when IP Media Services feature is selected.

OPTIONAL FEATURES FOR NORTH AMERICA – the following features will be added to the upgrade keycode automatically if the system upgrading has the feature in LD22 or on New Systems if the Order Code for the feature is ordered.

22   DISA   NTE95002 - A0511884   for all countries - can be added to any level for any system type
57   BARS   NTE95006 - A0511932   for all countries can be added to any level for any system type
248   MPH   NTE95034 - A0517114   for all countries in N.A. - any level for Large Systems, except CS 1000E
336 –ESA SUBNET LIS NTE95050/ N0130988   for all countries in N.A. – can be added to any level for any CS 1000 system type

405   GRSEC NTE980KS - A0553861   for all countries in N.A. - can be added to Tier 1 for CS 1000E &
                                       CS 1000M SG/MG systems. Will add feature 405 and remove feature 404. Package 405 is also required for the Survivable Media Gateway feature, which is only applicable to CS 1000E systems
404   GRPRIMNTE960KA   for all countries in N.A – will add feature 404 and remove feature 405

 Note: Package 408 is now included in base software

409 GL_PLUGIN NTE95051/ N0130989   for all countries - can be added to any level for any system type

411 ACD Package   any country in Tier 1 any system type (ACD Feature Enhancement package)

APPENDIX G MEDIA GATEWAY MG 1000B SOFTWARE CONTENT

Asia

The features in the table below are included automatically in the Premium Service Level (Tier 2) for Media Gateway 1000Bs in ALL countries in the region. (Note: Package 337 & 407 are not applicable to 1000B)

MG 1000B AP Service Pkg – R7.5   NTE937AH/ N0225038

0, 1, 2, 4, 5, 7, 8 ,9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 23, 24, 25, 28, 29, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 62, 63, 64, 67, 70, 71, 72, 73, 74, 75, 76, 77, 79, 80, 81, 83, 86, 87, 88, 89, 90, 91, 92, 93, 95, 98, 99, 100, 101, 102, 103, 104, 105, 107, 108, 109, 110, 111, 113, 114, 115, 116, 117, 118, 119, 120, 122, 123, 124, 125, 127, 128, 129, 132, 133, 134, 137, 138, 139, 140, 141, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 157, 159, 160, 161, 162, 163, 164, 167, 169, 170, 172, 173, 174, 175, 178 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 191, 192, 193, 195, 198, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 214, 215, 216, 218, 219, 222, 225, 227, 228, 229, 231, 233, 234, 235, 236, 240, 242, 243, 245, 247, 250, 251, 253, 254, 255, 256, 258, 259, 261, 263, 283, 286, 289, 294, 296, 297, 299, 301, 305, 306, 307, 308, 309, 310, 311, 312, 313, 315, 316, 321, 323, 324, 327, 328, 332, 333, 335, 347, 348, 349, 350, 351, 362, 364, 368, 370, 380, 381, 382, 384, 386, 387, 388, 389, 390, 394, 397, 398, 399, 400, 401, 402, 403, 406, 412, 415, 416, 417, 420, 422

DEFAULT FEATURES FOR AP Media Gateway 1000B the following features will automatically be added to New System or Upgrade Keycodes when the conditions are met:

97	JCO	for Japan – in Tier 1 for all systems
121	SCMP	for Japan – in Tier 1 for all system types
171	JTDS	for Japan – in Tier 1 for all systems
126, 285 & 292		for China – in T1 for all systems
131	SUPP	for AP and China – in Tier 1 for all system types
284	DPNSS 1891	for AP and China (is na for Japan) – in Tier 2 for all system type
288	DPNSS-ES	for AP and China (is na for Japan) – in Tier 2 for all system types
325	DMWI	for AP and China (is na for Japan) – in Tier 2 for all system types

OPTIONAL FEATURES FOR ASIA PACIFIC Media Gateway 1000B – – the following features will be added New Systems when the Order Code for the feature is ordered.

22	DISA	for all countries in AP - can be added to any level for any system types
57	BARS	for all countries in AP - can be added to any level for any system types
121	SCMP	for AP & China – can be added to any level for any system type
131	SUPP	for Japan only – can be added to any level for any system type
291	NI2	for Japan only – can be added to any level for any system

408 Multimedia Solution Convergence   for all countries

➢ Note: The selection 408 will also deliver 408 on the xlate plus it will enable 400 SIP Converged Desktop and 400 SIP CTI TR/87 ISMs on the xlate as well.

409 GL_PLUGIN NTE95051/ N0130989 <u>for all countries</u> - can be added to any level for any system type

Note Package 336 is not applicable to Asia-Pacific

** Features are selected in EC, codes are not provisioned in AP/EMEA for optional features - the feature option is added to the Xlate for inclusion in the keycode.

CALA

The features in the table below are included automatically in the Premium Service Level (T2) for Media Gateway 1000Bs in ALL countries in the region. (Package 407 is not applicable to 1000B)

MG 1000B CALA Service Pkg – R7.5   NTE927AH/ N0225037

0, 1, 2, 4, 5, 7, 8 ,9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 23, 24, 25, 26, 27, 28, 29, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 62, 63, 64, 67, 70, 71, 72, 73, 74, 75, 76, 77, 79, 80, 81, 83, 86, 87, 88, 89, 90, 91, 92, 93, 95, 98, 99, 100, 101, 102, 103, 104, 105, 107, 108, 109, 110, 111, 113, 114, 115, 116, 117, 118, 119, 120, 122, 123, 124, 125, 126, 127, 128, 129, 131, 132, 133, 134, 135,137, 138, 139, 140, 141, 143, 144, 145, 146,147, 148, 149, 150, 151, 152, 153, 154, 155, 157, 158, 159, 160, 161, 162, 163, 164, 167, 169, 170, 172, 173, 174, 175, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187,188, 189, 191, 192, 193, 195, 196, 198, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 214, 215, 216, 218, 219, 222, 223, 224, 225, 227, 228, 229, 231, 232, 233, 234, 235, 236, 240, 242, 243, 245, 247, 249, 250, 251, 253, 254, 256, 258, 259, 261,262, 263, 283, 284, 286, 288, 289, 290, 291, 294, 296, 297, 299, 301, 305, 306, 307, 308, 309, 310, 311, 312, 315, 316, 321, 323, 325 324, 327, 328, 329,330, 331, 332, 333, 334, 337, 348, 350, 351, 362, 364, 367, 368, 380, 381,382, 384, 385, 386, 387, 388, 389, 390, 393, 394, 397, 398, 399, 400, 401, 402, 403, 406, 412, 415, 416, 417, 420, 422

DEFAULT FEATURES FOR CALA Media Gateway 1000B: the following features will automatically be added to New System or Upgrade Keycodes when the conditions are met:

There are no Default packages for CALA Branch Office.

OPTIONAL FEATURES FOR CALA Media Gateway 1000B – the following features will be added New Systems when the Order Code for the feature is ordered.

22   DISA NTE95002 - A0511884   <u>for all countries in CALA</u> - can be added to any level for any system type
57   BARS NTE95006 - A0511932   <u>for all countries in CALA</u> - can be added to any level for any system type
197 FTA   NTE95018 - A0511945   <u>for all countries in CALA</u>– any system level for any system type

336 – ESA SUBNET LIS NTE95050/ N0130988 <u>for all countries in CALA</u>- can be added to any level for any CS 1000 system type

408 Multimedia Solution Convergence   <u>for all countries</u>
  ➤ Note: The selection 408 will also deliver 408 on the xlate plus it will enable 400 SIP Converged Desktop and 400 SIP CTI TR/87 ISMs on the xlate as well.

409 GL_PLUGIN NTE95051/ N0130989   <u>for all countries</u> - can be added to any level for any system type

EMEA

The features in the table below are included automatically in the Premium Service Level (T2) for Media Gateway 1000Bs in ALL countries in the region. (Package 407 is not applicable to 1000B)

MG 1000B EMEA Service Pkg – R7.5   NTE947AH/ N0225039

0, 1, 2, 4, 5, 7, 8 ,9, 10, 11, 14, 16, 17, 18, 19, 20, 21, 23, 24, 25, 28, 29, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 62, 63, 64, 67, 70, 71, 72, 73, 74, 75, 76, 77, 79, 80, 81, 83, 86, 87, 88, 89, 90, 91, 92, 93, 95, 98, 99, 100, 101, 102, 103, 104, 107, 108, 109, 110, 111, 113, 114, 115, 116, 118,119, 120, 122, 123, 124, 125, 127, 128, 129, 131, 132, 133, 134, 137, 138, 139, 140, 141, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 157, 159, 160, 161, 162, 163, 164, 167, 169, 170, 172, 173, 174, 175, 178, 179, 180, 181, 182, 183, 184, 185, 187, 188, 191, 192, 193, 196, 198, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 214, 215, 216, 218, 222, 225, 227, 228, 229, 231, 233, 234, 235, 236, 240, 242, 243, 245, 247, 250, 251, 253, 254, 256, 258, 259, 261, 262, 263, 283, 286, 288, 289, 296, 297, 299, 301, 305, 306, 307, 309, 311, 312, 315, 316, 321, 323, 324, 325, 327, 328, 329, 330, 331, 332, 333, 337, 348, 350, 351, 362, 364, 366, 367, 368, 370, 380, 381, 382, 384, 386, 387, 388, 389, 390, 394, 397, 398, 399**,** 400, 401, 402, 403, 406, 415, 416, 417,420, 422

DEFAULT FEATURES FOR EMEA Media Gateway 1000B – the following features will automatically be added to New System or Upgrade Keycodes when the conditions are met:

135	MFE	<u>for France</u> – in Tier 1 for any system type.
186	POVR	<u>for Finland, Denmark and all Tele Denmark Accounts</u>– in Tier 1 for any system type.
197	FTA	<u>for Schrack Poland and France</u> – in Tier 1 for all System types
190	UK	<u>for UK BT and UK Other</u> – in Tier 1 for all Large and Small systems
221	CIST	<u>for Turkey and CIS</u> – in Tier 1 for any system type.
252	KD3	<u>for Spain and Portugal</u> – in Tier 1 for any system type.
326 & 221		<u>for CIS</u> - in Tier 1 for any system type.

CISMFS

423 – **DME** - Disable Media Encryption – Added for Russia, Belarus and Kazakhstan only for **ALL** Release 7.5 and later systems

OPTIONAL FEATURES FOR EMEA Media Gateway 1000B – the following features will be added New Systems when the Order Code for the feature is ordered.

22 DISA		<u>for all countries in EMEA</u> - can be added to any level for any system type
57 BARS		<u>for all countries in EMEA</u> <u>except Schrack Damova Poland</u> - can be added to any level for any system type
186 POVR		<u>any country other</u> than Finland, Denmark and Tele Denmark Accounts -any level - any system type
221 CIST		<u>for Finland & Poland</u> – add to any level for any system type.
284 DPNSS		<u>for all countries in EMEA</u>-can be added to Tier 2 for any system type
304 ARDL		<u>for Israel</u> – can be added to any level for any system type
326&221 – CISMFS		<u>for Turkey, Finland, Poland</u> – add to any level for any system type.
336 ESA SUBNET LIS	NTE95050/ N0130988	<u>for all countries in EMEA</u>- can be added to any level for any CS 1000 system type

353 – SORM   for CIS and Metco Oman. Package 353 can be added to any Service package for any
                          supported system.

```
For system type                              provision code
----------------------------------------------   -----------------------
61C/CS 1000M SG                              NTFZ39CA
81C CS 1000M MG/CS 1000E                      NTFZ39DA
```

395 M3900Med		<u>for Israel</u> - can be added to any level for any system type
396 & 304 M3900 RGA		<u>for Israel</u> - can be added to any level for any system type

408 Multimedia Solution Convergence   <u>for all countries</u>
  ➢ Note: The selection 408 will also deliver 408 on the xlate plus it will enable 400 SIP Converged Desktop and 400 SIP CTI TR/87 ISMs on the xlate as well.

409 GL_PLUGIN NTE95051/ N0130989   <u>for all countries</u> - can be added to any level for any system type

North America

The features in the table below are included automatically in the Premium Service Level (T2) for Media Gateway 1000Bs in ALL countries in the region. (Package 407 is not applicable to 1000B)

MG 1000B North America Service Pkg – R7.5   NTE917AH/ N0225036

0, 1, 2, 4, 5, 7, 8 ,9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 23, 24, 25, 26, 27, 28, 29, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 62, 63, 64, 67, 70, 71, 72, 73, 74, 75, 76, 77, 79, 80, 81, 83, 86, 87, 88, 89, 90, 91, 92, 93, 95, 98, 99, 100, 101, 102, 103, 105, 107, 108, 109, 110, 111, 113, 114, 115, 116, 117, 118, 119, 120, 121, 125, 127, 129, 132, 133, 139, 140, 141, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 157, 158, 159, 160, 161, 162, 163, 164, 167, 170, 172, 173, 174, 175, 178, 179, 180, 181, 183, 184, 185, 186, 191, 192, 202, 203, 204, 205, 206, 207, 208, 209, 210, 212, 214, 215, 216, 218, 219, 222, 223, 224, 225, 227, 228, 229, 233, 234, 235, 240, 242, 243, 245, 247, 249, 250, 251, 253, 254, 256, 258, 259, 263, 286, 291, 296, 297, 299, 301, 305, 306, 307, 310, 311, 312, 315, 316, 321, 324, 327, 328, 329, 330, 331, 332, 333, 334, 337, 348, 350, 351, 362, 364, 368, 380, 381, 382, 384, 385, 386, 387, 388, 389, 390, 393, 394, 397, 398, 399, 400, 401, 402, 403, 406, 412, 415, 416, 417, 420, 422

DEFAULT FEATURES FOR N.A. Media Gateway 1000B

The following features will automatically be added to New System or Upgrade Keycodes when the conditions are met:

 There are no Default features for North American Branch Office.

OPTIONAL FEATURES FOR N.A. Media Gateway 1000B

The following features will be added New Systems when the Order Code for the feature is ordered.

22 DISA   NTE95002 - A0511884   <u>for all countries</u> - can be added to any level for any system type
57 BARS   NTE95006 - A0511932   <u>for all countries</u> - can be added to any level for any system type

336 ESA SUBNET LIS NTE95050/ N0130988 <u>for all countries </u> - can be added to any level for any CS 1000 system type

408 Multimedia Solution Convergence   <u>for all countries </u>
   ➤   Note: The selection 408 will also deliver 408 on the xlate plus it will enable 400 SIP Converged Desktop and 400 SIP CTI TR/87 ISMs on the xlate as well.

409 GL_PLUGIN NTE95051/ N0130989 <u>for all countries</u> - can be added to any level for any system type

APPENDIX H – SIP MEDIA GATEWAY SOFTWARE CONTENT

Asia

The features in the table below are included automatically in the Premium Service Level (T2) for SIP MGs in ALL countries in the region. (Packages 390, 405, 407 and 422 are not applicable to SIP MG)

Note Package 337 is not applicable to Asia

SIP MG Asia Service Pkg –R7.5 NTE931AJ / N0225125
0, 1, 2, 4, 5, 7, 8 ,9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 23, 24, 25, 28, 29, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 62, 63, 64, 67, 70, 71, 72, 73, 74, 75, 76, 77, 79, 80, 81, 83, 86, 87, 88, 89, 90, 91, 92, 93, 95, 98, 99, 100, 101, 102, 103, 104, 105, 107, 108, 109, 110, 111, 113, 114, 115, 116, 117, 118, 119, 120, 122, 123, 124, 125, 127, 128, 129, 132, 133, 134, 137, 138, 139, 140, 141, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 157, 159, 160, 161, 162, 163, 164, 167, 169, 170, 172, 173, 174, 175, 178 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 191, 192, 193, 195, 198, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 214, 215, 216, 218, 219, 222,225, 227, 228, 229, 231, 233, 234, 235, 236, 240, 242, 243, 245, 247, 250, 251, 253, 254, 255, 256, 258, 259, 261, 263, 283, 286, 289, 294, 296, 297, 299, 301, 305, 306, 307, 308, 309, 310, 311, 312, 313, 315, 316, 321, 323, 324, 327, 328, 329, 330, 331, 332, 333, 335, 347, 348, 349, 350, 351, 362, 364, 368. 370, 380, 381, 382, 384, 386, 387, 388, 389, 394, 397, 398, 399, 400, 401, 402, 403, 406, 412, 415, 416, 417, 420

DEFAULT FEATURES FOR Asia SIP MG the following features will automatically be added to New System or Upgrade Keycodes when the conditions are met:

97	JCO	for Japan – in Level 1 for all systems
121	SCMP	for Japan – in Level 1 for all system types
171	JTDS	for Japan – in Level 1 for all systems
126, 285 & 292		for China – in L1 for all systems
131	SUPP	for Asia – in Level 1 for all system types
288	DPNSS-ES	for Asia (n/a for Japan) – in Level 3b for all system types
284	DPNSS 1891	for Asia (n/a for Japan) – in Level 3b for all system types
325	DMWI	for Asia (n/a for Japan) – in Level 4 for all system types

OPTIONAL FEATURES FOR ASIA PACIFIC SIP MG – – the following features will be added New Systems when the Order Code for the feature is ordered.

22	DISA	for Asia - can be added to any level for any system types
57	BARS	for aAsia - can be added to any level for any system types
121	SCMP	for Asia – can be added to any level for any system type
131	SUPP	for Japan only – can be added to any level for any system type
291	NI2	for Japan only – can be added to any level for any system
408	Multimedia Solution Convergence	NTE95049 for all countries

➢ Note: The selection 408 will also deliver 408 on the xlate plus it will enable 400 SIP Converged Desktop and 400 SIP CTI TR/87 ISMs on the xlate as well.

409 GL_PLUGIN   NTE95051   can be added to any level for any system types

Note Package 336 is not applicable to Asia-Pacific

** Features are selected in NNEC, codes are not provisioned in Asia/EMEA for optional features - the feature option is added to the Xlate for inclusion in the keycode.

CALA

The features in the table below are included automatically in the Premium Service Level (T2) for SIP MGs in ALL countries in the region. (Packages 390, 405, 407 and 422 are not applicable to SIP MG)

SIP MG CALA Service Pkg –R7.5	NTE921AJ / N0225124
0, 1, 2, 4, 5, 7, 8 ,9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 23, 24, 25, 26, 27, 28, 29, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 62, 63, 64, 67, 70, 71, 72, 73, 74, 75, 76, 77, 79, 80, 81, 83, 86, 87, 88, 89, 90, 91, 92, 93, 95, 98, 99, 100, 101, 102, 103, 104, 105, 107, 108, 109, 110, 111, 113, 114, 115, 116, 117, 118, 119, 120, 122, 123, 124, 125, 126, 127, 128, 129, 131, 132, 133, 134, 135,137, 138, 139, 140, 141, 143, 144, 145, 146,147, 148, 149, 150, 151, 152, 153, 154, 155, 157, 158, 159, 160, 161, 162, 163, 164, 167, 169, 170, 172, 173, 174, 175, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187,188, 189, 191, 192, 193, 195, 196, 198, , 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 214, 215, 216, 218, 219, 222, 223, 224, 225, 227, 228, 229, 231, 232, 233, 234, 235, 236, 240, 242, 243, 245, 247, 249, 250, 251, 253, 254, 256, 258, 259, 261,262, 263, 283, 284, 286, 288, 289, 290, 291, 294, 296, 297, 299, 301, 305, 306, 307, 308, 309, 310, 311, 312, 315, 316, 321, 323, 325 324, 327, 328, 329,330, 331, 332, 333, 334, 337, 348, 350, 351, 362, 364, 367, 368 380, 381,382, 384, 385, 386, 387, 388, 389, 393, 394, 397, 398, 399, 400, 401, 402, 403, 406, 412, 415, 416, 417, 420.	

DEFAULT FEATURES FOR CALA Media SIP MG: the following features will automatically be added to New System or Upgrade Keycodes when the conditions are met:
.

OPTIONAL FEATURES FOR CALA SIP MG – the following features will be added New Systems when the Order Code for the feature is ordered.

22	DISA	NTE95002 - A0511884	for all countries in CALA - can be added to any level for any system type
57	BARS	NTE95006 - A0511932	for all countries in CALA - can be added to any level for any system type
197	FTA	NTE95018 - A0511945	for all countries in CALA– any system level for any system type
336 –	ESA	NTE95051	for all countries in CALA – on CS 1000 systems only

408 Multimedia Solution Convergence   NTE95049   for all countries
   ➢ Note: The selection 408 will also deliver 408 on the xlate plus it will enable 400 SIP Converged Desktop and 400 SIP CTI TR/87 ISMs on the xlate as well.
409 GL_PLUGIN   NTE95051   can be added to any level for any system types

EMEA

The features in the table below are included automatically in the Premium Service Level (T2) for SIP MGs in ALL countries in the region. (Packages 390, 405, 407 and 422 are not applicable to SIP MG)

SIP MG EMEA Service Pkg –R7.5	NTE941AJ / N0225126

0, 1, 2, 4, 5, 7, 8 ,9, 10, 11, 14, 16, 17, 18, 19, 20, 21, 23, 24, 25, 28, 29, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 62, 63, 64, 67, 70, 71, 72, 73, 74, 75, 76, 77, 79, 80, 81, 83, 86, 87, 88, 89, 90, 91, 92, 93, 95, 98, 99, 100, 101, 102, 103, 104, 107, 108, 109, 110, 111, 113, 114, 115, 116, 118,119, 120, 122, 123, 124, 125, 127, 128, 129, 131, 132, 133, 134, 137, 138, 139, 140, 141, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 157, 159, 160, 161, 162, 163, 164, 167, 169, 170, 172, 173, 174, 175, 178, 179, 180, 181, 182, 183, 184, 185, 187, 188, 191, 192, 193, 196, 198, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 214, 215, 216, 218, 222, 225, 227, 228, 229, 231, 233, 234, 235, 236, 240, 242, 243, 245, 247, 250, 251, 253, 254, 256, 258, 259, 261, 262, 263, 283, 286, 288, 289, 296, 297, 299, 301, 305, 306, 307, 309, 311, 312, 315, 316, 321, 323, 324, 325, 327, 328, 329, 330, 331, 332, 333, 337, 348, 350, 351, 362, 364, 366, 367, 368, 370, 380, 381, 382, 384, 386, 387, 388, 389, 394, 397, 398, 399**,** 400, 401, 402, 403, 406, 415, 416, 417, 420.

DEFAULT FEATURES FOR EMEA SIP MG – the following features will automatically be added to New System or Upgrade Keycodes when the conditions are met:

135	MFE	for France – in Level 1 for any system type.
186	POVR	<u>for Finland, Denmark and all Tele Denmark Accounts – in Tier 1 for any system type.</u>
197	FTA	for France and all Kapsch Accounts – in Tier 1 for all System types
190	UK	for UK BT and UK Other – in Level 1 for all Large and Small systems
221	CIST	for Turkey and CIS – in Level 1 for any system type.
252	KD3	for Spain and Portugal – in Level 1 for any system type.
326 & 221		for CIS - in Level 1 for any system type.
CISMFS		

423 – **DME** - Disable Media Encryption – Added for Russia, Belarus and Kazakhstan only for **ALL** Release 7.5 and later systems

OPTIONAL FEATURES FOR EMEA SIP MG – the following features will be added New Systems when the Order Code for the feature is ordered.

22	DISA	<u>for all countries in EMEA</u> - can be added to any level for any system type
57	BARS	<u>for all countries in EMEA</u> - can be added to any level for any system type**121** SCMP <u>for all countries in EMEA</u> – can be added to any level for any system type
186	POVR	any country/account other than Finland, Denmark and Tele Denmark Accounts -any level any system type **221** CIST
		<u>for Finland & Poland</u> – add to any level for any system type.
284	DPNSS	<u>for all countries in EMEA</u>-can be added to level 3b or higher for any system type
304	ARDL	<u>for Israel</u> – can be added to any level for any system type
336 –	ESA	<u>for all countries in EMEA</u> – on CS 1000 systems only
326&221 –	CISMFS	<u>for Turkey, Finland, Poland</u> – add to any level for any system type.
353 –	SORM	for CIS and Metco Oman. Package 353 can be added to any Service package for any supported system.

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For system type                              provision code
---------------------------------------------    ----------------------
   61C/CS 1000M SG                           NTFZ39CA
   81C CS 1000M MG/CS 1000E                  NTFZ39DA
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395 M3900Med   <u>for Israel</u> - can be added to any level for any system type
396 & 304 M3900 RGA   <u>for Israel</u> - can be added to any level for any system type
408 Multimedia Solution Convergence   NTE95049   for all countries
   ➢ Note: The selection 408 will also deliver 408 on the xlate plus it will enable 400 SIP Converged Desktop and 400 SIP CTI TR/87 ISMs on the xlate as well.

409 GL_PLUGIN   <u>for all countries</u> - can be added to any level for any system types

** Features are selected in NNEC, codes are not provisioned in Asia/EMEA for Optional features - the feature option is added to the Xlate for inclusion in the keycode.

North America

The features in the table below are included automatically in the Premium Service Level (T2) for SIP MGs in ALL countries in the region. (Packages 390, 405, 407 and 422 are not applicable to SIP MG)

SIP MG North America Service Pkg –R7.5	NTE911AJ / N0225123
0, 1, 2, 4, 5, 7, 8 ,9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 23, 24, 25, 26, 27, 28, 29, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 62, 63, 64, 67, 70, 71, 72, 73, 74, 75, 76, 77, 79, 80, 81, 83, 86, 87, 88, 89, 90, 91, 92, 93, 95, 98, 99, 100, 101, 102, 103, 105, 107, 108, 109, 110, 111, 113, 114, 115, 116, 117, 118, 119, 120, 121, 125, 127, 129, 132, 133, 139, 140, 141, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 157, 158, 159, 160, 161, 162, 163, 164, 167, 170, 172, 173, 174, 175, 178, 179, 180, 181, 183, 184, 185, 186, 191, 192, 202, 203, 204, 205, 206, 207, 208, 209, 210, 212, 214, 215, 216, 218, 219, 222, 223, 224, 225, 227, 228, 229, 233, 234, 235, 240, 242, 243, 245, 247, 249, 250, 251, 253, 254, 256, 258, 259, 263, 286, 291, 296, 297, 299, 301, 305, 306, 307, 310, 311, 312, 315, 316, 321, 324, 327, 328, 329, 330, 331, 332, 333, 334, 337, 348, 350, 351, 362, 364, 368, 380, 381, 382, 384, 385, 386, 387, 388, 389, 393, 394, 397, 398, 399, 400, 401, 402, 403, 406, 412, 415, 416, 417, 420.	

DEFAULT FEATURES FOR N.A. SIP MG
The following features will automatically be added to New System or Upgrade Keycodes when the conditions are met:

OPTIONAL FEATURES FOR N.A. SIP MG
The following features will be added New Systems when the Order Code for the feature is ordered.

22 DISA   NTE95002 - A0511884   <u>for all countries</u> - can be added to any level for any system type
57 BARS   NTE95006 - A0511932   <u>for all countries</u> - can be added to any level for any system type
408 Multimedia Solution Convergence   NTE95049   for all countries
   ➢ Note: The selection 408 will also deliver 408 on the xlate plus it will enable 400 SIP Converged Desktop and 400 SIP CTI TR/87 ISMs on the xlate as well
   ➢ .

336 – Emergency services (ESA SUBNET LIS) <u>for all countries</u> - can be added to any level for CS 1000 systems only.

409 GL_PLUGIN   <u>for all countries</u> - can be added to any level for any system type

APPENDIX I- COMMUNICATION SERVER 1000 RELEASE 7.5 CVSD STRUCTURE

Legend

Abbreviation	Description
Y	Yes applicable to the region and system type
Na	not applicable to the region or system type
D	Default for the region, specific country or specific system type
D & OP	Default for some countries but Optional for other countries within same region
Op	Optional at any Service Level
OP – T?	Feature Optional only at the specified Tier or higher
OP-Country	Feature Optional only for the specified country
LS	Applicable for Large systems
SS	Applicable to Small systems
BO	for Branch Office only
r	retired
nu	feature number not used
#	Feature numbers in **Bold** type - are used Globally (all Regions & System types)

Package Number	Service Package	Package Mnemonic	CVSD Service Level Feature Package Description	CS 1000M SG/ MG & PBX 61C/81C	CS 1000E	MG 1000B SIP MG
0	T1	BASIC	Basic Call Processing	Y	Y	Y
1	T1	OPTF	Extended PBX Features	Y	Y	Y
2	T1	CUST	Multi Customer Operation	Y	Y	Y
3	r	AIOD	Auto-Ident. of Outgoing Calls	r	r	r
4	T1	CDR	Call Detail Recording	Y	Y	Y
5	T1	CTY	CDR on TTY	Y	Y	Y
6	r	CLNK	CDR on Data Link	r	r	r
7	T1	RAN	Recorded Announcement	Y	Y	Y
8	T1	TAD	Time and Date	Y	Y	Y
9	T1	DNDI	Do Not Disturb, Individual	Y	Y	Y
10	T1	EES	End to End Signaling	Y	Y	Y
11	T1	INTR	Intercept Treatment	Y	Y	Y
12	T1	ANI	Automatic Number Identification	Y	Y	Y
13	T1	ANIR	ANI Route Selection	Y	Y	Y
14	T1	BRTE	Basic Routing	Y	Y	Y

Package Number	Service Package	Package Mnemonic	CVSD Service Level Feature Package Description	CS 1000M SG/MG & PBX 61C/81C	CS 1000E	MG 1000B SIP MG
15	T1	RPE1.5	1.5 Mbit Remote Peripheral Equipment mutually exclusive with165	r	r	r
16	T1	DNDG	Do Not Disturb, Group	Y	Y	Y
17	T1	MSB	Make Set Busy	Y	Y	Y
18	T1	SS25	Special Services for 2500 Sets	Y	Y	Y
19	T1	DDSP	Digit Display	Y	Y	Y
20	T1	ODAS	Office Data Administration System	Y	Y	Y
21	T1	DI	Dial Intercom	Y	Y	Y
22	OP	DISA	Direct Inward System Access	Y	Y	Y
23	T1	CHG	Charge Account for CDR	Y	Y	Y
24	T1	CAB	Charge Account/Authorization Code	Y	Y	Y
25	T1	BAUT	Basic Authorization Code	Y	Y	Y
26	T1	CASM	Centralized Attendant Service (Main)	Y	Y	Y
27	T1	CASR	Centralized Attendant Service (Remote)	Y	Y	Y
28	T1	BQUE	Basic Queing	Y	Y	Y
29	T1	NTRF	Network Traffic Measurement	Y	Y	Y
30	r	CMAC	Network Comm. Mgmt Center Interface	r	r	r
31	r	MCDR	Mini CDR	r	r	r
32	T1	NCOS	Network Class of Service	Y	Y	Y
33	T1	CPRK	Call Park	Y	Y	Y
34	T1	SSC	System Speed Call	Y	Y	Y
35	T1	IMS	Integr Messaging System Link	Y	Y	Y
36	T1	ROA	Recorded Overflow Announcement	Y	Y	Y
37	T1	NSIG	Network Signaling	Y	Y	Y
38	T2	MCBQ	Network Call Back Queuing - Main	Y	Y	Y
39	T2	NSC	Network Speed Call	Y	Y	Y
40	T1	BACD	Basic Automatic Call Distribution	Y	Y	Y
41	T1	ACD-B	ACD Pkg B Advanced Features	Y	Y	Y
42	T1	ACDC	ACD Pkg C1 Load Mgmt Reports	Y	Y	Y

Package Number	Service Package	Package Mnemonic	CVSD Service Level Feature Package Description	CS 1000M SG/ MG & PBX 61C/81C	CS 1000E	MG 1000B SIP MG
43	T1	LMAN	ACD Pkg C2. Enh. Load Mgmt. Reports	Y	Y	Y
44	T1	MUS	Music	Y	Y	Y
45	T1	ACD-A	ACD Pkg A Basic Features ACD services	Y	Y	Y
46	T1	MWC	Message Waiting Center	Y	Y	Y
47	T1	AAB	Automatic Answer Back	Y	Y	Y
48	T1	GRP	Group Call	Y	Y	Y
49	T1	NFCR	New Flexable Code Restriction	Y	Y	Y
50	T1	ACD-D	ACD Pkg D-Enh Mgmt Displays	Y	Y	Y
51	T1	LNK	ACD PkgD Auxillary Processor Link	Y	Y	Y
52	T1	FCA	Forced Charge Account	Y	Y	Y
53	T1	SR	Set relocation	Y	Y	Y
54	T1	AA	Attendant Administration	Y	Y	Y
55	T1	HIST	History File	Y	Y	Y
56	T1	AOP	Attendant Overflow Position *was me*	Y	Y	Y
57	OP-T1	BARS	Basic Alternate Route Selection	Y	Y	Y
58	T1	NARS	Ntwk Alternate Route Selection	Y	Y	Y
59	T1	CDP	Coordianted Dialing Plan	Y	Y	Y
60	T1	PQUE	Priority Queuing	Y	Y	Y
61	T1	FCBQ	Flexable Call Back Queuing	Y	Y	Y
62	T2	OHQ	Off Hook Queuing	Y	Y	Y
63	T1	NAUT	Network Authorization Code	Y	Y	Y
64	T1	SNR	Stored Number Redial	Y	Y	Y
65	T1-LS	TDET	MF Tone Detector *LargeSystems Only*	r	r	na
66	r	SCC	SL-1 TDET Special Common Carrier	r	r	r
67	T2	NXFR	Network Call Transfer	Y	Y	Y
70	T1	HOT/EH OT	HOT Line Services/Enhanced HOT Line	Y	Y	Y
71	T1	DHLD	Deluxe Hold	Y	Y	Y
72	T1	LSEL	Automatic Line Selection	Y	Y	Y
73	T1	SS5	500 Set Features	Y	Y	Y

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Package Number	Service Package	Package Mnemonic	CVSD Service Level Feature Package Description	CS 1000M SG/ MG & PBX 61C/81C	CS 1000E	MG 1000B SIP MG
74	T1	DRNG	Distinctive Ringing	Y	Y	Y
75	T1	PBXI	PBX Interface for DTI/CPI (1.5Mb)	Y	Y	Y
76	T1	DLDN	Departmental Listed Directory #	Y	Y	Y
77	T1	CSL	Command Status Link	Y	Y	Y
78	r	AMP	Automated Modem Pooling	r	r	r
79	T1	OOD	Optional Outpulsing Delay	Y	Y	Y
80	T1	SCI	Station Category Indication	Y	Y	Y
81	T1	CCOS	Controlled Class of Service	Y	Y	Y
82	r	RESDB	Resedent Debug	r	r	r
83	T1	CDRQ	ACD CDR Queue Record	Y	Y	Y
84	r	ATM	Automatic Trunk Maintenance - Retired- with Succession 3.0	r	r	r
85	r	CSLA	CSL with Alpha Signaling	r	r	r
86	T1	TENS	Multiple Tenant Service	Y	Y	Y
87	T1	FTDS	Fast Tone & Digit Switch	Y	Y	Y
88	T1	DSET	M2000 Digital Sets	Y	Y	Y
89	T1	TSET	M3000 Digital Sets	Y	Y	Y
90	T1	LNR	Last Number Redial	Y	Y	Y
91	T1	DLT2	M2317 Digital Sets	Y	Y	Y
92	T1	PXLT	Pre translation	Y	Y	Y
93	T1	SUPV	Supervisory Attendant Console	Y	Y	Y
94	r	JTDS	Japan speacific	r	r	r
95	T1	CPND	Call Party Name Display	Y	Y	Y
96	r	SLST	Meridian SL-1 ST	r	r	r
97	T1	JCO	Japan - CO Trunks	Y	Y	Y
98	T1	DNIS	Dialed Number Identification Service	Y	Y	Y
99	T1	BGD	Background Terminal Facility	Y	Y	Y
100	T1	RMS	Room Status	Y	Y	Y
101	T1	MR	PPM / Message Registration	Y	Y	Y
102	T1	AWU	Automatic Wake Up	Y	Y	Y
103	T1	PMSI	Property Mgmt. System Interface	Y	Y	Y
104	T1	OPAO	Outpulsing of * and #	Y	Y	Y
105	T1	LLC	Line Load Control	Y	Y	Y
107	T1	MCT	Malicious Call Trace	Y	Y	Y

Package Number	Service Package	Package Mnemonic	CVSD Service Level Feature Package Description	CS 1000M SG/ MG & PBX 61C/81C	CS 1000E	MG 1000B SIP MG
108	T1	ICDR	Internal CDR	Y	Y	Y
109	T1	APL	Auxillary Processor Link	Y	Y	Y
110	T1	TVS	Trunk Verification from a Station	Y	Y	Y
111	T1	TOF	ACD Timed Overflow	Y	Y	Y
112	r	NKL	Notification Key Lamp	r	r	r
113	T1	IDC	Incoming DID Digit Conversion	Y	Y	Y
114	T1	AUXS	ACD D Auxillary Security	Y	Y	Y
115	T1	DCP	Direct Call Pickup	Y	Y	Y
116	T1	PAGT	ACD Priority Agent	Y	Y	Y
117	T1	CBC	Call by Call Service Selection	Y	Y	Y
118	T1	CCDR	Calling Line ID in CDR	Y	Y	Y
119	T1	EMUS	Enhanced Music	Y	Y	Y
120	T1	PLDN	Group Hunt / DN Access to SCL	Y	Y	Y
121	T1	SCMP	Station Camp On	Y	Y	Y
122	T1	COMDT	Common DAS/DPNSS DTRK	Y	Y	Y
123	T1	DPNSS	DPNSS	Y	Y	Y
124	T1	DASS2	DASS2	Y	Y	Y
125	T1	FTC	Flexible Tones and Cadences	Y	Y	Y
126	T1	OPCB	China - Operator Call Back (China #1)	Y	Y	Y
127	T1	BKI	Attendant Break In	Y	Y	Y
128	T1	MFC	Multi-Frequency Compelled Signaling	Y	Y	Y
129	T1	DTI2	2 Mbit DTI	Y	Y	Y
130	nu	NIL PTR	never used/not available	nu	nu	nu
131	T1	SUPP	International Supplementary Features	Y	Y	Y
132	T1	TBAR	Trunk Barring	Y	Y	Y
133	T1	ENS	Enhanced Night Service	Y	Y	Y
134	T1	AFNA	Attendant Forward No Answer - was *me*	Y	Y	Y
135	T1	MFE	Multi-Frequency Socotel - France+others	Y	Y	Y
136	T1-LS	JDMI	2 MB Digital Mux Interface Japan Large Systems Only	Y	Y	na
137	T1	LSCM	Local Steering Code Modification	Y	Y	Y
138	T1	DTD	Dial Tone Detector	Y	Y	Y

Package Number	Service Package	Package Mnemonic	CVSD Service Level Feature Package Description	CS 1000M SG/ MG & PBX 61C/81C	CS 1000E	MG 1000B SIP MG
139	T1	FFC	Flexible Feature Codes	Y	Y	Y
140	T1	DCON	M2250 Attendant Console	Y	Y	Y
141	T1	MPO	Multi-Party Operations	Y	Y	Y
142	r	AHLD	Pkg was defined as "AHLD" but released	r	r	r
143	T1	ICP	Intercept Computer	Y	Y	Y
144	T1	ABCD	16 - Button DTMF	Y	Y	Y
145	T1	ISDN	ISDN Signaling	Y	Y	Y
146	T1	PRA	ISDN 1.5 Mbit PRA	Y	Y	Y
147	T1	ISL	ISDN Signaling Link	Y	Y	Y
148	T1	NTWK	Advanced ISDN Ntwk Services	Y	Y	Y
149	T1	IEC	Inter-Exchange Carrier	Y	Y	Y
150	T1	DNXP	DN Expansion (7 digit)	Y	Y	Y
151	T1	CDRE	CDR Expansion (7 digit)	Y	Y	Y
152	T1	FXS	Agent Greeting	Y	Y	Y
153	T1	IAP3P	ISDN Application Processor Third Party Vendors	Y	Y	Y
154	T1	PRI2	2 Mbit PRI	Y	Y	Y
155	T1	ACNT	ACD Activity Code	Y	Y	Y
156	nu	na	never used/not available	nu	nu	nu
157	T1	THF	Centrex Switch Hook Flash	Y	Y	Y
158	T2	FGD	Feat Group D	Y	Y	Y
159	T2	NAS	Network Attendant Service - *formally me*	Y	Y	Y
160	T1	FNP	Flexible Numbering Plan	Y	Y	Y
161	T1	ISDN INTL	ISDN Supplementary Features	Y	Y	Y
162	T1	SAR	Scheduled Access Restriction	Y	Y	Y
163	T1	MIN	Message Intercept	Y	Y	Y
164	T1	LAPW	Limited Access to Overlays	Y	Y	Y
165	T1	RPE2	2 Mbit Remote Peripheral Equipment mutually exclusive with 15	r	n/a	r
166	r	HOSP	Hospital Management	r	r	r
167	T1	GPRI	Int'l 1.5/2.0 MBit Gateway	Y	Y	Y
168	r	TMON	Traffic Monitoring	r	r	r
169	T1	COOP	Console Operations	Y	Y	Y

Package Number	Service Package	Package Mnemonic	CVSD Service Level Feature Package Description	CS 1000M SG/ MG & PBX 61C/81C	CS 1000E	MG 1000B SIP MG
170	T1	ARIE	Meridian Modular Telephone Sets	Y	Y	Y
171	T1	JTDS	Japan-Tone&Digit Switch me 69 & 106	Y	Y	Y
172	T1	CPGS	Console Presentation Group Level Services	Y	Y	Y
173	T1	ECCS	Enhanced Controlled Class of Service	Y	Y	Y
174	T1	AAA	Attendant Alternative Answering - *was me*	Y	Y	Y
175	T1	NMS	Network Message Service	Y	Y	Y
176	r	DTOT	DID to Tie	r	r	r
177	nu	na	never used/not available	nu	nu	nu
178	T1	EOVF	ACD Enhanced Overflow	Y	Y	Y
179	T1	HVS	Meridian Hospitality Voice Services	Y	Y	Y
180	T1	DKS	Digit Key Signaling	Y	Y	Y
181	T1	SACP	Semi-Automatic Camp-On	Y	Y	Y
182	T1	TFM	Trunk Failure Monitor	Y	Y	Y
183	T2	VNS	Virtual Network Services	Y	Y	Y
184	T1	OVPL	Overlap Signaling	Y	Y	Y
185	T1	EDRG	Executive Destinctive Ringing	Y	Y	Y
186	T1	POVR	Priority Override / Forced Camp on	Y	Y	Y
187	T1	RPA	Radio Paging	Y	Y	Y
188	T2	T1MF	T1-MFC Signaling	Y	Y	Y
189	T1	SVCT	Supervisory Console Tones	Y	Y	Y
190	T1	UK	UK -Hardware Support (UK -BT & UL other)	Y	Y	Y
191	T1	SECL	Series call	Y	Y	Y
192	T2	ORC-RVQ	Remote Virtual Queing/Drop Back Busy	Y	Y	Y
193	T1	RCK	Ring Change Key	Y	Y	Y
194	nu	na	never used/not available	nu	nu	nu
195	T1	FAXS	HiMail Fax Server Interface	Y	Y	Y
196	T1	OHOL	On Hold on Loudspeaker	Y	Y	Y
197	T1	FTA	French - Type Approval (+	Y	Y	Y

Package Number	Service Package	Package Mnemonic	CVSD Service Level Feature Package Description	CS 1000M SG/MG & PBX 61C/81C	CS 1000E	MG 1000B SIP MG
			others)			
198	T1	FFCSF	Boss Secretarial Filtering	Y	Y	Y
199	nu	na	never used/not available	nu	nu	nu
200	T1 - SS	AINS	Automatic Set Based Installation	na	**na**	na
201	nu	na	never used/not available	nu	nu	nu
202	T1	IPRA	International PRA (CO)	Y	Y	Y
203	T1	XPE	Extended Peripherial Equipment	Y	Y	Y
204	T1	XCT0	Enhanced Conf, TDS, and MFS Card	Y	Y	Y
205	T1	XCT1	Superloop Administration (LD 97)	Y	Y	Y
206	T1	MLWU	Multilanguage Wake-Up	Y	Y	Y
207	T2	NACD	Network ACD	Y	Y	Y
208	T1	HSE	Hospitality Screen Enh	Y	Y	Y
209	T1	MLS	Meridian Link Server	Y	Y	Y
210	T1	MAID	Maid ID for room status	Y	Y	Y
211	T1	MLIO	Multilanuage CPND	Y	Y	Y
212	T1	VIP	VIP Automatic Wake-Up	Y	Y	Y
213	nu	na	never used/not available	nu	nu	nu
214	T1	EAR	Enhanced ACD Routing	Y	Y	Y
215	T1	CCRC	Cust Controlled Routing	Y	Y	Y
216	T1	BRI	ISDN Basic Rate Interface	Y	Y	Y
217	nu	na	never used/not available	nu	nu	nu
218	T1	IVR	Hold in Queue for IVR	Y	Y	Y
219	T2	MWI	MWI Interworking with DMS	Y	Y	Y
220	nu	na	never used/not available	nu	nu	nu
221	D & OP T1	CIST	CIST-Digital Trk Interface/3-Wire Analog(IPE)	Y	**Y**	Y
222	T1	MSDL	Multi-Puropse Serial Data Link	Y	Y	Y
223	T1	FC68	Compliance for DID Answer Supper	Y	Y	Y
224	T1	M911	Meridian 911 ENHANCEMENTS	Y	Y	Y
225	T1	CWNT	Call Waiting Notification	Y	Y	Y
226	nu	na	never used/not available	nu	nu	nu

Package Number	Service Package	Package Mnemonic	CVSD Service Level Feature Package Description	CS 1000M SG/ MG & PBX 61C/81C	CS 1000E	MG 1000B SIP MG
227	T1 - LS	MSDL SDI	MSDL - SDI	Y	Y	na
228	T1 - LS	STA	Single Terminal Access	Y	Y	na
229	T1	SSAC	Station Specific Auth Codes	Y	Y	Y
230	r	MDP	Manufactured Delivered Patches	r	r	r
231	T2	DNWK	DPNSS Network Services	Y	Y	Y
232	T1	PEDM	Pulsed EAM (French Colisee) L.Systems	Y	Y	na
233	T1	BRIT	BRI Trunk Application	Y	Y	Y
234	T1	CDR-NEW	New Format CDR	Y	Y	Y
235	T1	BRIL	BRI Line Application	Y	Y	Y
236	T1	ACRL	AC15 TIMED RECAL	Y	Y	Y
237	nu	na	never used/not available	nu	nu	nu
238	nu	na	never used/not available	nu	nu	nu
239	nu	na	never used/not available	nu	nu	nu
240	T1	MCM	M1 CT2/CT2+ Mobility	Y	Y	Y
241	nu	na	never used/not available	nu	nu	nu
242	T1	MULTI USER	Multi User Login	Y	Y	Y
243	T1	FM	Meridian 1 Fault management	Y	Y	Y
244	nu	na	never used/not available	nu	nu	nu
245	T1	SML	System Message Look up	Y	Y	Y
246	T1	VMB	Voice Mail Box	r	r	r
247	T1	CLID	Call ID for Meridian Link	Y	Y	Y
248	OP-LS T1	MPH	Meridian 1 Packet Handler (ST100)	Y	na	na
249	T1	ENH_M911	10/20 Digit ANI on 911 Calls	Y	Y	Y
250	T1	DPNA	Direct Private Network Access	Y	Y	Y
251	T1	SCDR	Station Activity Record	Y	Y	Y
252	T1	KD3	KD3 DID/DOD Interface Span & Portugal	Y	Y	Y
253	T1	ARFW	Attn & Networkwide RCFW	Y	Y	Y
254	T1	PHTN	Phantom TN Operation	Y	Y	Y

Package Number	Service Package	Package Mnemonic	CVSD Service Level Feature Package Description	CS 1000M SG/ MG & PBX 61C/81C	CS 1000E	MG 1000B SIP MG
255	T1	INBD	International nB+D	Y	Y	Y
256	T1	ADMINS ET	Set Based Admin Enhancements	Y	Y	Y
257	r	EQA	Equal access, (for FCC) discontinued 20.19B	r	r	r
258	T1	ATX	Autodial Tandem Transfer	Y	Y	Y
259	T1	CDRX	CDR Enhancements	Y	Y	Y
260	nu	na	never used/not available	nu	nu	nu
261	T1	EURO	Euro ISDN	Y	Y	Y
262	T2	SAMM	Standalone Meridian Mail- interface 3rd party	Y	Y	Y
263	T1	QSIG	ECMA Q-Sig Interface	Y	Y	Y
264	r	MLMS BRZ	Brazilian	r	r	r
265	r	MLMS PRC	Mainland Chinese - PRC	r	r	r
266	r	MLMS ROC	Taiwan Chinese	r	r	r
267	r	MLMS DAN	Danish	r	r	r
268	r	MLMS DUT	Dutch	r	r	r
269	r	MLMS FIN	Finish	r	r	r
270	r	MLMS FRC	French Canadian	r	r	r
271	r	MLMS FRE	Euro French	r	r	r
272	r	MLMS GER	German	r	r	r
273	r	MLMS ITL	Italian	r	r	r
274	r	MLMS JPN	Japanese	r	r	r
275	r	MLMS KOR	Korean	r	r	r
276	r	MLMS	Norwegian	r	r	r

Package Number	Service Package	Package Mnemonic	CVSD Service Level Feature Package Description	CS 1000M SG/MG & PBX 61C/81C	CS 1000E	MG 1000B SIP MG
		NRW				
277	r	MLMS RUS	Russian	r	r	r
278	r	MLMS SPE	Euro Spanish	r	r	r
279	r	MLMS LASP	Latin American Spanish	r	r	r
280	r	MLMS SWE	Swedish	r	r	r
281	r	ZPAG	not introduced	r	r	r
282	nu	na	never used/not available	nu	nu	nu
283	T1	UIGW	Universal ISDN Gateway	Y	Y	Y
284	T2	DPNSS 189I	DPNSS 189I	Y	Y	Y
285	OP-T1	CHINA	China Attendant Monitor	Y	Y	Y
286	LS	REM_IPE	Carrier Remote IPE	Y	Y	na
287	nu	na	never used/not available	nu	nu	nu
288	T2	DPNSS-ES	DPNSS Enhanced Services	Y	Y	Y
289	T1	ADSP	ACD Disconnect Supervision	Y	Y	Y
290	T1	CCB	Collect Call Blocking	Y	Y	Y
291	T1	NI2	NI-2 TR-1268 PRI Basic Call	Y	Y	Y
292	OP-T1	CHTL	China Toll Call Loss Plan	Y	**Y**	Y
293	r	TAT	Trunk Anti-Tromboning	r	r	r
294	T1	BTD	Busy Tone Detection	Y	Y	Y
295	T1 - SS	IPEX	IP Expansion Option 11C/11C mini	na	na	na
296	T1	MAT	MAT Management Interface	Y	Y	Y
297	T1	MQA	Mutiple Queue Assignement	Y	Y	Y
298	T1	CPIO	Opt 81 old backplane * _Upgrades Only_	na	na	na
299	LS	CORE-NET	Option 81C (New Backplane)	Y	Y	na
300	nu	na	never used/not available	nu	nu	nu
301	T1	CPP	Calling Party Privacy	Y	Y	Y

Package Number	Service Package	Package Mnemonic	CVSD Service Level Feature Package Description	CS 1000M SG/ MG & PBX 61C/81C	CS 1000E	MG 1000B SIP MG
302	r	MOSR	Mobility Server	r	r	r
303	r	MMO	Mobility Microcellular	r	r	r
304	OP-T1	ARDL	Automatic Redial (Israeli Market)	Y	Y	Y
305	T2	QSIGGF	QSIG GF Transport	Y	Y	Y
306	T1	CPRKNET	Call Park Networkwide	Y	Y	Y
307	T1	PAGENET	Call Page Networkwide	Y	Y	Y
308	T1	PTU	Perferential Trunk Usage	Y	Y	Y
309	T1	MASTER	Euro ISDN Master Mode	Y	Y	Y
310	T1	CPCI	Called Party Control	Y	Y	Y
311	T1	NGCC	Next Generation Call Center	Y	Y	Y
312	T1	TATO	Trunk Antitromboning/Route Optimisation	Y	Y	Y
313	T2	ISPC	Australian - SPCs	Y	Y	Y
314	r	MMSN	Mobility Multisite Network	r	r	r
315	T1	SNMP_ALARM	SNMP Alarm integration	Y	Y	Y
316	T2	QSIG_SS	Qsig ISDN Supplementary Services	Y	Y	Y
317	nu	na	never used/not available	nu	nu	nu
318	nu	na	never used/not available	nu	nu	nu
319	nu	na	never used/not available	nu	nu	nu
320	nu	na	never used/not available	nu	nu	nu
321	T2	QTN	Queu to NACD for CCR	Y	Y	Y
322	nu	na	never used/not available	nu	nu	nu
323	T1	EISDN_SS	Euro ISDN Supplementary Services	Y	Y	Y
324	T1	NGEN	New Generation Foundation	Y	Y	Y
325	T2	DMWI	DPNSS Message Waiting & NTWK 3rd party system	Y	Y	Y
326	OP-T1	CISMFS	CIS - MF Shuttle Signaling	Y	Y	Y
327	T1	RANBRD	RAN Broadcast	Y	Y	Y
328	T1	MUSBRD	Music Broadcast	Y	Y	Y
329	T1	ESA	Emergency Services Access 911	Y	Y	Y

Package Number	Service Package	Package Mnemonic	CVSD Service Level Feature Package Description	CS 1000M SG/MG & PBX 61C/81C	CS 1000E	MG 1000B SIP MG
330	T1	ESA_SUP	Emergency Services Access Suppl. 911	Y	Y	Y
331	T1	ESA_CL MP	Emergency Services Access Calling Number	Y	Y	Y
332	T1	CNUMB	Class: Calling Name Delivery	Y	Y	Y
333	T1	CNAME	Class: Calling Number Delivery	Y	Y	Y
334	T1	NI-2 CBC	NI-2 Call by Call Service Selection	Y	Y	Y
335	T2	GTTC	Japan - TTC Common Channel Signal.	Y	Y	Y
336	Op-T1	ESA SUBNET LIS	ESA SUBNET LIS - Allow the use of an internal Subnet -lookup location information Dervice to provide basic location determination for IP sets	Y	Y	Y
337	T1	ESA_EXT ERNAL_ DM	ESA_EXTERNAL_DM - Allow the use of an external application (Discover Manager) to provide advanced location determination for IP set	Y	Y	Y
338	nu	na	never used/not available	nu	nu	nu
339	nu	na	never used/not available	nu	nu	nu
340	nu	Na	never used/not available	nu	nu	nu
341	nu	Na	never used/not available	nu	nu	nu
342	nu	Na	never used/not available	nu	nu	nu
343	nu	Na	never used/not available	nu	nu	nu
344	r	GCM	German - Call Monitoring SORM	r	r	r
345	r	UWIN	Universal Wireless Interactive Networking	r	r	r
346	r	SMS	never used/not available	r	r	r
347	T1	TWR1	Taiwan - CO R1 Modified Signaling (T1)	Y	Y	Y
348	T2	MEET	MCDN End To End Transparency	Y	Y	Y
349	T1	ACLI	Japan - Information Notification Service	Y	Y	Y
350	T1	MC32	Meridian Companion Enhanced Capacity	Y	Y	Y
351	T1	DBA	MAT/OTM Data Buffering and	Y	Y	Y

Package Number	Service Package	Package Mnemonic	CVSD Service Level Feature Package Description	CS 1000M SG/ MG & PBX 61C/81C	CS 1000E	MG 1000B SIP MG
			Access			
352	r	MMCS	never used/not available	r	r	r
353	OP-LS-T1	RUCM	Russian(CIS) - Call Monitoring SORM	Y	Y	Y
354	nu	Na	never used/not available	nu	nu	nu
355	nu	Na	never used/not available	nu	nu	nu
356	nu	Na	never used/not available	nu	nu	nu
357	nu	Na	never used/not available	nu	nu	nu
358	nu	Na	never used/not available	nu	nu	nu
359	nu	Na	never used/not available	nu	nu	nu
360	nu	Na	never used/not available	nu	nu	nu
361	nu	Na	never used/not available	nu	nu	nu
362	T1	FDID	Flexible DID	Y	Y	Y
363	nu	Na	never used/not available	nu	nu	nu
364	T1	NMCE	Meridian Communications Exchange Connectivity	Y	Y	Y
365	LS	FIBN	Fiber Network Fabric (Opt 81 & 81C)	Y	**na**	na
366	T1	PLUGIN	Plug-In	Y	Y	Y
367	T1	BNE	Business Networking Express EuroISDN Call Diversion & Gateways	Y	Y	Y
368	LS	CPP_CNI	Core Processor PII Opt. 81C	Y	**Y**	na
369	nu	Na	never used/not available	nu	nu	nu
370	T2	MSMN	MDECT 2000 Multi-Site Mobility Networking	Y	Y	Y
371	r	KAP_AUT	Kapsh sidestream - Austria	r	r	r
372	r	KAP_CR	Kapsh sidestream - CZ/SK	r	r	r
373	r	KAP_HUNG	Kapsh sidestream - Hungary	r	r	r
374	r	KAP_PL	Kapsh sidestream - Poland	r	r	r
375	r	KAP_CIS	Kapsh sidestream - CIS	r	r	r
376	r	KAP_ACD	Kapsh sidestream - ACD	r	r	r
377	nu	Na	never used/not available	nu	nu	nu

Package Number	Service Package	Package Mnemonic	CVSD Service Level Feature Package Description	CS 1000M SG/MG & PBX 61C/81C	CS 1000E	MG 1000B SIP MG
378	nu	Na	never used/not available	nu	nu	nu
379	nu	Na	never used/not available	nu	nu	nu
380	T1	STS_MSG	M3900 series - Set to Set Messaging	Y	Y	Y
381	T1	CDIR	Corporate Directory	Y	Y	Y
382	T1	V_OFFICE	M3900 Digital Phones Virtual Office	Y	Y	Y
383	r	R25 Lite	R25 Lite-Restricted & Not used after 25.08	r	r	r
384	T1	ATAN	Attendant Announcement	Y	Y	Y
385	T1	NI2 NAME	NI2 Name Display	Y	Y	Y
386	T1	M3900_ENH	M3900 Productivity Enh.	Y	Y	Y
387	T1	V_OFFICE_ENH	M3900 Virtual Office Enhancements	Y	Y	Y
388	T1	ACDE	ACD DN/CDN Expansion	Y	Y	na
389	T1	PONW	Network Breakin & Force Disconnect	Y	Y	Y
390	BO	SUCC BR OFFICE	Branch Office - Only	na	na	Y
393	T1	UUI	User to User Information	Y	Y	Y
394	T1	OAS	Observe Agent Security New Rls 3.0	Y	Y	Y
395	OP-T1	M3900 Med	M3900 Mediterranean language supp.	Y	Y	Y
396	OP-T1	M3900 RGA_PROG	Israeli Market	Y	Y	Y
397	T1	M3900 ICON	M3900 Full ICON Support Package	Y	Y	Y
398	T1	PCA	Service Blending with external call servers	Y	Y	Y
399	T1	H323 VTRK	IP PEER H323 Trunks New Rls 3.0	Y	Y	Y
400	T1	LOCX	ESN Location Code Expansion	Y	Y	Y
401	T1	PVQM	Proactive Voice Quality	Y	Y	Y

Package Number	Service Package	Package Mnemonic	CVSD Service Level Feature Package Description	CS 1000M SG/ MG & PBX 61C/81C	CS 1000E	MG 1000B SIP MG
			Management			
402	T1	SOFT SWITCH	Soft Switch	na	Y	Y
403	T1	IPMG	IP Peer Media Gateway	na	Y	Y
404	T1	GRPRIM	Geo Redundancy Primary Call Server	CS 1000M Only	Y	na
405	OP-T1	GRSEC	Geo Redundancy Secondary Call Server	CS 1000M Only	Y	na
406	T1	SIP	SIP Package	Y	Y	Y
407	T1	GCAC	Adaptive Network Bandwidth Management	Y	Y	na
408	T1	MS_CONV	Multimedia Solution Convergence	Y	Y	Y
409	T1	GL _PLUGIN	Global Plug-in	Y	Y	Y
410	T1	HIGH_ AVAIL	High Availability	CPPIV based only	Y	Na
411	OP-T1	ACDF	ACD Feature Enhancement	Y	Y	Na
412	T1	MOBX	Mobile Extension	Y – CS 1000M only	Y	Y
413	T1	TLSV	Telephony Services	Y – CS 1000M only	Y	Na
414	T1	FMCL	Fixed Mobility Converged Line	Y – CS 1000M only	Y	Na
415	T1	SIPL_ NORTEL	SIP Nortel Users	Y – CS 1000M only	Y	Y
416	T1	SIPL_ 3RD PARTY	SIP 3rd Party	Y – CS 1000M only	Y	Y
417	T1	SIP_	SIP Line	Y – CS	Y	Y

Package Number	Service Package	Package Mnemonic	CVSD Service Level Feature Package Description	CS 1000M SG/MG & PBX 61C/81C	CS 1000E	MG 1000B SIP MG
		LINES		1000M only		
418	OP – T1	MGP	MG1000E PRI			Na
420	T1	ZBD	Zone Dialing	Y	Y	Y
421	T2	HIGH_ SCALABI LITY	High Scalability (HS)	na	Y	Na
422	OP – T1	IPMEDIA _SERVIC ES	IP Media Services	na	Y	Y
423	T1/ or T2	DME	Disable Media Encryption (applicable to Russia, Kazahkstan, & Belarus only in EMEA).	Y	Y	Y
511	nu	na	never used/not available	nu	nu	Nu

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APPENDIX K – CS 1000 RELEASE 7.5 SUPPORTED PLUG-INS LIST

Updated List with Release 7.5

The following is master list of all supported Plug-ins up to Release 7.5

Please note that some Plug-ins were enhanced or updated with Release 7.5, also some are supported with Both EMEA and Global Plug-ins packages.

Plug-in #	CR	MPLR	Description	EMEA (366)	Global (409)	Notes
PLUGIN 0	BV67946	2330	Special dial tone with NT8D17CA CONF/TDS pack	X	-	
PLUGIN 1	BV63269	MPLR12002	BRI B-channels not marked MBSY when D-channel drops	X	-	
PLUGIN 2	BV69389	2860	Automatic Wake Up AWU is automatically turned on and confirmed after an Initialization (manual or system)	X	-	
PLUGIN 3	BV69237	MPLR11506	Hotline Feature Enhancement	X	-	
PLUGIN 4	BV19192	2871	After dialing LSC followed by DSC, user gets overflow tone	X	X	Extend support to Global Plug-in with Rls 5.0 & higher
PLUGIN 5	BV71211	MPLR06084	NRGA is not working with tandem node & digit manipulation	X	-	
PLUGIN 6	BV28124	2056	BCS set releases from call transfer to attendant	X	-	
PLUGIN 7	MP05648	MPLR06413	DID with DNIS and IDC cannot call PLDN using SCLU	X	-	
PLUGIN 8	MP05649	MPLR06450	Ability to CFW a set to PLDN using SCLU	X	-	
PLUGIN 9	BV40679	MPLR07136 MPLR29268	Update the display if ATTN extends call with announcement	X	-	Additional functionalities were added with Rls 7.5
PLUGIN 10	BV42928	MPLR07615	CFW call to NAS is intercepted to NITE DN	X	-	
PLUGIN 11	BV62151	MPLR11339	RAN cannot be accessed via route ACOD over network	X	-	
PLUGIN 12	BV63726	MPLR08777	Maintenance messages flooding TTY -> TTY unusable	X	X	Extend support to Global Plug-in with Rls 5.5 & higher
PLUGIN 13	BV71206	MPLR07477	MCT should be output on answer from 500 sets	X	-	
PLUGIN 14	BV70355	MPLR09806 MPLR18064	MCDN - ORIG DN display is preceded with a \"H\"	X	X	Extend support to Global Plug-in with Rls 5.0 & higher
PLUGIN 14	Q01811562	MPLR25286	**Plug-in 14** Additional functionality: Transfer/ Conference support	X	X	Additional functionalities were added with Rls 7.0
PLUGIN 14	Q02098327	MPLR29475	**Plug-in 14** Additional functionality: support for DPNSS	X	X	Additional functionalities were

						added with Rls 7.0
PLUGIN 14	Q02102742	MPLR29475	**Plug-in 14** Additional functionality: support for DECT	X	X	Additional functionalities were added with Rls 7.0
PLUGIN 15	MP07484	MPLR12767	No CCNR if CLID in ld 15 is configured as AC1 + HLOC	X	-	
PLUGIN 16	MP06929	MPLR10238	ORION: Auth-code, Pass-code suppression in caller-ist	X	-	
PLUGIN 17	MP06947	MPLR12611	Support "Make Set Busy" on analogue telephone sets	X	-	
PLUGIN 18	MP02558	MPLR10025	Data calls can terminate on a FFC PLDN	X	-	
PLUGIN 19	MP09251	MPLR10034	Support R2MFC CNI on BRIL set	X	-	
PLUGIN 20	MP06945	MPLR10259	ACD call waiting time	X	-	
PLUGIN 21	MP13003	MPLR10408	RGA on multi-appearance activated against last changed set	X	-	
PLUGIN 22	MP12871	MPLR10445	Ability to Disable/Enable Call waiting Control from any digital set	X	X	Extend support to Global Plug-in with Rls 5.5 & higher
PLUGIN 23	MP12872	MPLR10558	Give CPND on GROUP CALL	X	X	Extend support to Global Plug-in with Rls 5.5 & higher
PLUGIN 24	BV28928	MPLR10877	Tenant night service supported by MMAIL	X	-	
PLUGIN 25	BV31038	MPLR09480	Originator of Q931/DPNSS Gateway call can't Transfer Call	X	-	
PLUGIN 26	BV43640	MPLR06618	IF LOC+DN is dialed on own node call diverts to attn	X	-	
PLUGIN 27	BV49770	MPLR07549 MPLR18460 MPLR23083	DID to DID call intercepts to the attn.	X	X	Extend support to Global Plug-in with Rls 5.5 & higher
PLUGIN 28	BV61124	MPLR08887	DASS/ATTN, no speech-path after camp-on	X	-	
PLUGIN 29	BV63496	MPLR09075	500 set to be able to switch-hook flash while listening to Ring-back tone	X	-	
PLUGIN 30	MP03491	MPLR12768	Change the display on UDP/CDP in case of redirection/transfer	X	-	
PLUGIN 31	BV67986	MPLR09583	Allow access SCL/PLDN over DASS/DPNSS	X	-	
PLUGIN 32	BV81369	MPLR09926M PLR13257	I/C DASS Calls to set CFW ext to busy gets ring tone	X	-	
PLUGIN 33	BV69096	MPLR12581	Turn off DPNSS diversion Feature	X	-	
PLUGIN 33+	BV69096	MPLR28554	Update Redirection Info for Diverted DPNSS Calls Routed To SIP By Local Diversion	X	-	Additional functionalities

						were added with Rls 7.0
PLUGIN 34	MP06876	MPLR12678	Treatment of Orion Intermittent lockups	X	-	
PLUGIN 35	BV69924	MPLR12035	ORION sets are blocking without any action	X	X	Extend support to Global Plug-in with Rls 5.5 & higher
PLUGIN 36	BV43890	MPLR08608	CFW DN not sent with CNI ON Outgoing MFC DID Call	X	X	Extend support to Global Plug-in with Rls 5.0 & higher
PLUGIN 37	BV80459	MPLR10894	ERR5413 When disc an unanswered euro call.	X	-	
PLUGIN 38	BV80957	MPLR11014	CLID enhancement : EUROISDN: "TYPE OF NUMBER" to be kept as "UNKOWN"	X	-	
PLUGIN 39	BV75230	MPLR10344	ACD Calls will not interflow	X	X	Extend support to Global Plug-in with Rls 5.5 & higher
PLUGIN 40	BV49120	MPLR11540	Extra dial-tone when using PLDN to access SCL DN	X	-	
PLUGIN 41	MP05291	MPLR12515	Compose DISA CLID for UIPE	X	-	
PLUGIN 42	MP12024	MPLR17576	Treatment for possible Lockup of non-located DECT sets	X	-	
PLUGIN 43	MP07025	MPLR12764	Mapping of MWI facility message on DPNSS/MCDN GW	X	-	
PLUGIN 44	**Spare**	**Spare**	**Spare**	NA	NA	
PLUGIN 45	**Spare**	**Spare**	**Spare**	NA	NA	
PLUGIN 46	**Spare**	**Spare**	**Spare**	NA	NA	
PLUGIN 47	BV59546	MPLR08685	CDR Enhancement: BLID in case of network redirection	X	-	
PLUGIN 48	BV66375	MPLR12169	No speech-path when transfer call to ORION	X	-	
PLUGIN 49	**Spare**	**Spare**	**Spare**	NA	NA	
PLUGIN 50	Q00350068	MPLR15785	Force changing party category PCAT to EXTENSION on a transit call form Alcatel over QSIG terminating to MCDN	X	-	
PLUGIN 51	**Spare**	**Spare**	**Spare**	NA	NA	
PLUGIN 52	**Spare**	**Spare**	**Spare**	NA	NA	
PLUGIN 53	Q00429387	MPLR16487	DASS/DPNSS: Incoming DASS2 TO Outgoing DASS. If Incoming SIC=0, always send outgoing SIC =10.	X	-	
PLUGIN 54	**Spare**	**Spare**	**Spare**	NA	NA	
PLUGIN 55	Q00424468	5511	EUROISDN: UIPE BRIT status mess. on EST CONFIRM Layer 2	X	-	

PLUGIN 56	Q00424644	MPLR09233 MPLR09624	Update MCDN_BRIT B-Channels status after DISU/ENLU in OVL 32	X	-	
PLUGIN 57	Q00424010	MPLR06795	ALERT MSG not sent to ICT NUME TANDEMED (NCFW)	X	-	
PLUGIN 58	Q00546629	MPLR07423	NUMERIS CALL TANDEM TO ANALOG CO ARE CUT	X	-	
PLUGIN 59	Q00424115	MPLR10160 MPLR23160	To Enable blind (UNGUARDED) transfer across MCDN Network	X	X	Extend support to Global Plug-in with Rls 5.5 & higher
PLUGIN 60	Q00423908	2215	DELAY THE TIME BETWEEN ACD CALLS	X	-	
PLUGIN 61	Q00513471	MPLR12859	Charge Display feature does not take cent into account.	X	-	
PLUGIN 62	Q00424004	MPLR06740	CONFUSING Call redirection on MADN When MARP=NO	X	-	
PLUGIN 63	Spare	Spare	Spare	NA	NA	
PLUGIN 64	Q00424780	MPLR11988	DPNSS "DIVERTING IMMEDIATE" field missing	X	-	
PLUGIN 65	Q00424693	MPLR10030	DAR call revert back to voice mail	X	-	Not applicable with Rls 7.0 and higher
PLUGIN 66	Q00424662	MPLR11807	Maintain Privacy for companion sets in the case of SCR	X	-	
PLUGIN 67	Spare	Spare	Spare	NA	NA	
PLUGIN 68	Q00349311	MPLR15764	DASS CALL TO BE ROUTED TO ACD QUEUE FOR AODN.	X	-	
PLUGIN 69	Q00424176	MPLR11355	Enable "CARRIER SELECTION" for Telecom-Italia	X	-	
PLUGIN 70	Q00423733	MPLR12554	SPN 411 WITH NON ZERO FLEN DISCARDS TAIL DIGITS	X	-	
PLUGIN 71	Spare	Spare	Spare	NA	NA	
PLUGIN 72	Q00348996	MPLR15741	DAPC DIGIT INSERTION DOESN\'T WORK OVER DPNSS LINK	X	-	
PLUGIN 73	Q00424497	MPLR07113	"MU-LAW" to "A-LAW" conversion cannot be administered on BRI	X	-	
PLUGIN 74	Q00350324	MPLR16079	Support of "Time of day display" on DECT handsets	X	-	
PLUGIN 75-200	Spare	Spare	Spare for future use as EMEA Plug-in	NA	NA	

PLUGIN 201	Q00424053	MPLR08139	Cant transfer Outgoing Trunk To Outgoing Trunk	-	X	supported Global Plug-in with Rls 5.0 & higher
PLUGIN 202	Q01033260	MPLR18286	Allow DNIS and INST prompts to work together	-	X	Supported Global Plug-in with Rls 5.0 & higher
PLUGIN 203	Q01245621	MPLR20783	Allow Loop Start trunk to Loop start Trunk Transfer	-	X	Supported Global Plug-in with Rls 5.0 & higher
PLUGIN 204	**Spare**	**Spare**	**Spare**	NA	NA	
PLUGIN 205	Q01226592	MPLR21073	Unable to configure NI2-TIE with CBCR set to NO	-	X	Supported Global Plug-in with Rls 5.5 & higher
PLUGIN 206	Q00954846	MPLR19491	Connected party number inserted at the tandem node	-	X	Supported Global Plug-in with Rls 5.5 & higher
PLUGIN 207	Q01621070	MPLR23784	Ability to Dynamically divert calls without answering		X	Supported Global Plug-in with Rls 5.5 & higher
PLUGIN 208	Q00337068	MPLR15593	DPNSS1 CBWF CBWNU support in a mixed UDP CDP network	-	X	New with Rls 7.0
PLUGIN 209	Q00424169	MPLR11158	BCS set can't CFW i/c DPNSS to o/g DPNSS using TSC	-	X	**New with Rls 7.5**
PLUGIN 210	Q01203524	MPLR20829	DPNSS: Message Waiting Indicator Message (MWI) over DPNSS to MD110	-	X	New with Rls 7.0
PLUGIN 211	Q01247579	MPLR21094	In MCDN/DPNSS network an incoming DASS2 call is sent with CLC=4(PSTN) doesn't display OLC/CLI	-	X	New with Rls 7.0
PLUGIN 212	Q00423561	MPLR10262	RGA FAILS OVER DPNSS IF UDP/CDP GATEWAY INVOLVED	-	X	New with Rls 7.0
PLUGIN 213	Q01152709	MPLR18073	DPNSS Three party EEM messages are reversed when the CLC 2 does not contain the STATUS parameter	-	X	New with Rls 7.0
PLUGIN 214	Q01877647	MPLR26154	MPLR26152 - DPNSS External CFWD Switching & validation to be allowed + MPLR23702 - CFWD Diversion Only Needed On Internal Calls.	-	X	New with Rls 7.0
PLUGIN 215	Q00351422	MPLR20518 MPLR15747 MPLR28509	MPLR15747 - call redirected to CP over DPNSS1 does not reach proper mailbox + MPLR20494 - only 8 digits are sent to CP from a DPNSS1 diversion	-	X	New with Rls 7.0
PLUGIN 216	Q00424003	MPLR19790	Remove extra digit in calling party number for NUMERIS	-	X	New with Rls 7.0

PLUGIN 217	Q00608469	MPLR16228	SWISSNET – Support for SN2 supplementary service identification forced.	-	X	New with Rls 7.0
PLUGIN 218	Q01425647	MPLR22384	CLID Enhancement : No DN and Name displayed in network if CLS CLBA	-	X	New with Rls 7.0
PLUGIN 219	Q01498458	MPLR23001	LSC always displayed after CFW OR CTRN across network	-	X	New with Rls 7.0
PLUGIN 220	Q01413377	MPLR22314	Timer (NIT) between INFO MSG is expired if OVERLAP SENDING	-	X	New with Rls 7.0
PLUGIN 221	Q01422314	MPLR22362	Recall To Same Attendant Does Not Work Over QSIG	-	X	New with Rls 7.0
PLUGIN 222	Q01694286	MPLR22688	Remove secondary dial-tone after 500 user dials FFC SPCU	-	X	New with Rls 7.0
PLUGIN 223	Q00669044	MPLR12290	HICOM rejects QSIG CCBS request with no calling number	-	X	New with Rls 7.0
PLUGIN 224	Q01694286	MPLR24422 MPLR24676	No busy treatment on external transfer through application if OUT_T306 > 0	-	X	New with Rls 7.0
PLUGIN 225	Q00582698	MPLR17022 MPLR22389	Interaction :PKG 179, M3900 sets, electronic lock feature, Voice Mail & CP soft-key	-	X	New with Rls 7.0
PLUGIN 226	Q00349529	MPLR15783	ACLID should display more than 10 digits	-	X	**New with Rls 7.5**
PLUGIN 227	**Spare**	**Spare**	**Spare**	**NA**	**NA**	
PLUGIN 228	Q00424514	MPLR07613	TTY 0 on CPU card (8/1/N) causes cursor to go up on VDU	-	X	New with Rls 7.0
PLUGIN 229	**Spare**	**Spare**	**Spare**	**NA**	**NA**	
PLUGIN 230	Q00424199	MPLR11700	Unplugged telephone set disables after midnight routines.	-	X	New with Rls 7.0
PLUGIN 231	Q00424726	MPLR10878	BRI 64K data not possible over DTI2; with mix of (DTI & DTI2)	-	X	New with Rls 7.0
PLUGIN 232	Q01606556	MPLR24273	QSIG GF: No diverting and originally called number in DLI2 APDU on calls from MCDN TRO-BA.	-	X	New with Rls 7.0
PLUGIN 233	Q00741430	MPLR16506	MWI (High Voltage) Support for CLASS set with CLS LPA	-	X	New with Rls 7.0
PLUGIN 234	**Spare**	**Spare**	**Spare**	**NA**	**NA**	
PLUGIN 235	Q01346277	MPLR29100	Restrict Hands-free functionality for all IP set types.	-	X	New with Rls 7.0
PLUGIN 236	Q01777861	MPLR25106	Support of autodial to output DTMF for CO as authcodes	-	X	**New with Rls 7.5**
PLUGIN 237-399	spare	**Spare**	**Spare for future use of Global Plug-in**	**NA**	**NA**	
PLUGIN 400-499	**Spare**	**Spare**	**Spare for special applications**	**NA**	**NA**	

PLUGIN 500	Q01217702	MPLR21979	Provide delay in CP greeting for virtual trunk calls *(independent on Package 409/366)*	-	-	Introduced with Rls 5.5
PLUGIN 501	Q02138637	MPLR30070	Support of blind transfer from CS1K (if far end does not support SIP UPDATE) *(independent on Package 409/366)*	-	-	New with Rls 7.0 additional functionalities were added with Rls 7.5
PLUGIN 502	**Spare**	**Spare**	**Spare for Special Applications** (independent on Package 409/366)	-	-	
PLUGIN 503	**Spare**	**Spare**	**Spare for Special Applications** (independent on Package 409/366)	-	-	
PLUGIN 504	Q01718956	MPLR24744	PI: PRI232 BUG253 from Progress Indicator 10 Delay in Response at Called Interface *(independent on Package 409/366)*	-	-	**New with Rls 7.5**
PLUGIN 505	Q02140914 -04	MPLR30004	UM2K integration issues with S100 Interface *(independent on Package 409/366)*	-	-	**New with Rls 7.5**
PLUGIN 506-511	**Spare**	**Spare**	**Spare for Special Applications** (independent on Package 409/366)	-	-	

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