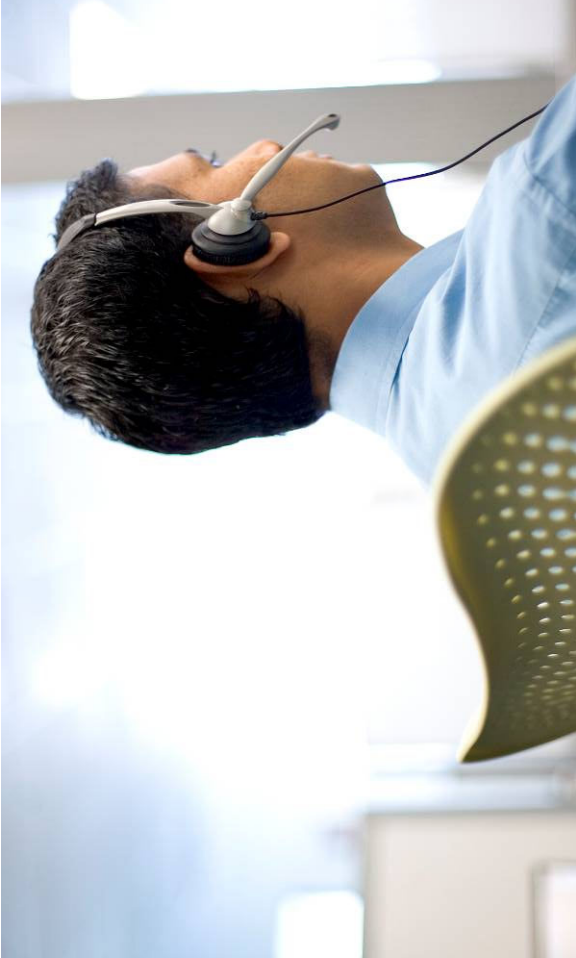




BTS 10200 Softswitch Product Overview & Roadmap



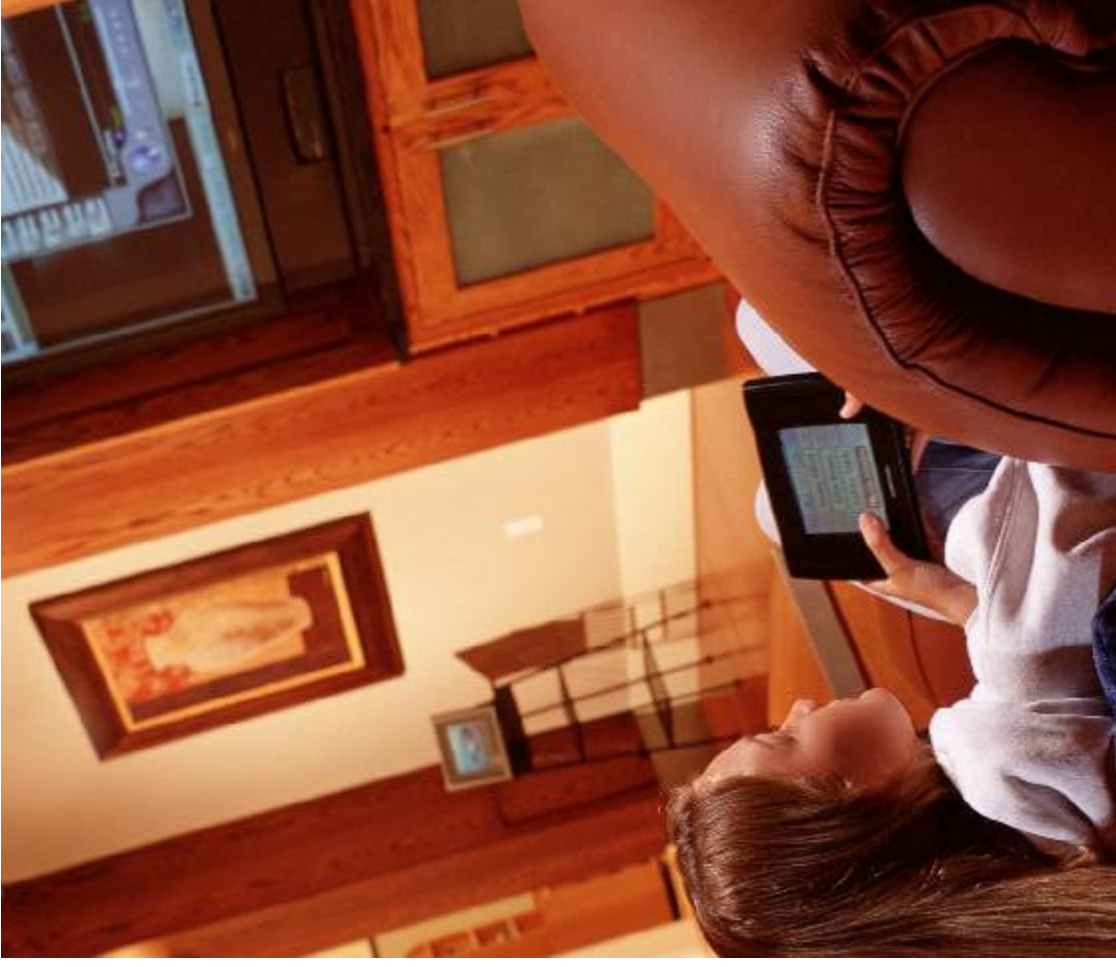
March 2008

**Billie Stagg
BTS 10200 Product Mgr**

Agenda

BTS 10200 Overview

BTS 10200 Roadmap



The BTS 10200 Softswitch

- The BTS 10200 Softswitch delivers software-based* voice call control capabilities in Next Generation IP Service Provider networks.
- The BTS 10200 softswitch can provide traditional **Class 5** subscriber services and **Class 4** trunking support.
- The BTS 10200 offers a full suite of **residential voice** features and a strong suite of **small business voice** features.



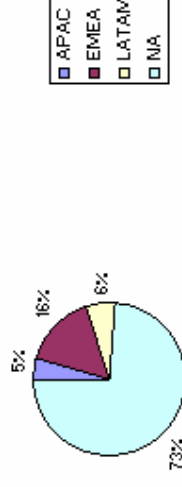
BTS 10200
Softswitch

*runs on Sun servers

Softswitch Market Adoption

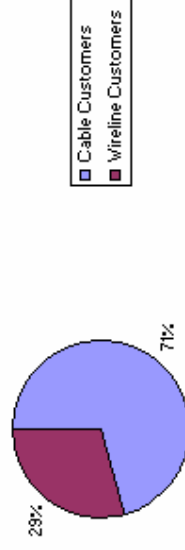
More than 8.5 million BTS subscribers worldwide*

Global Presence



- Service Providers
 - Cable/MSO
 - Wireline
 - Satellite

More than 170 BTS Platforms Deployed

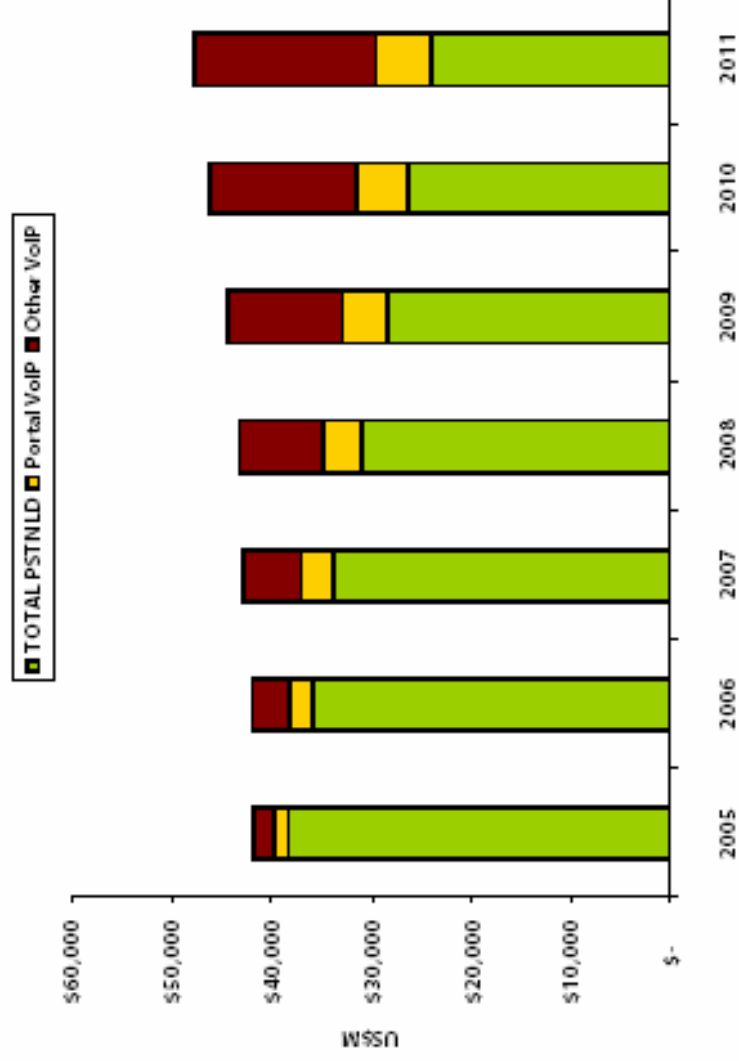


50% of US Cable VoIP subscribers

*as of January 2008

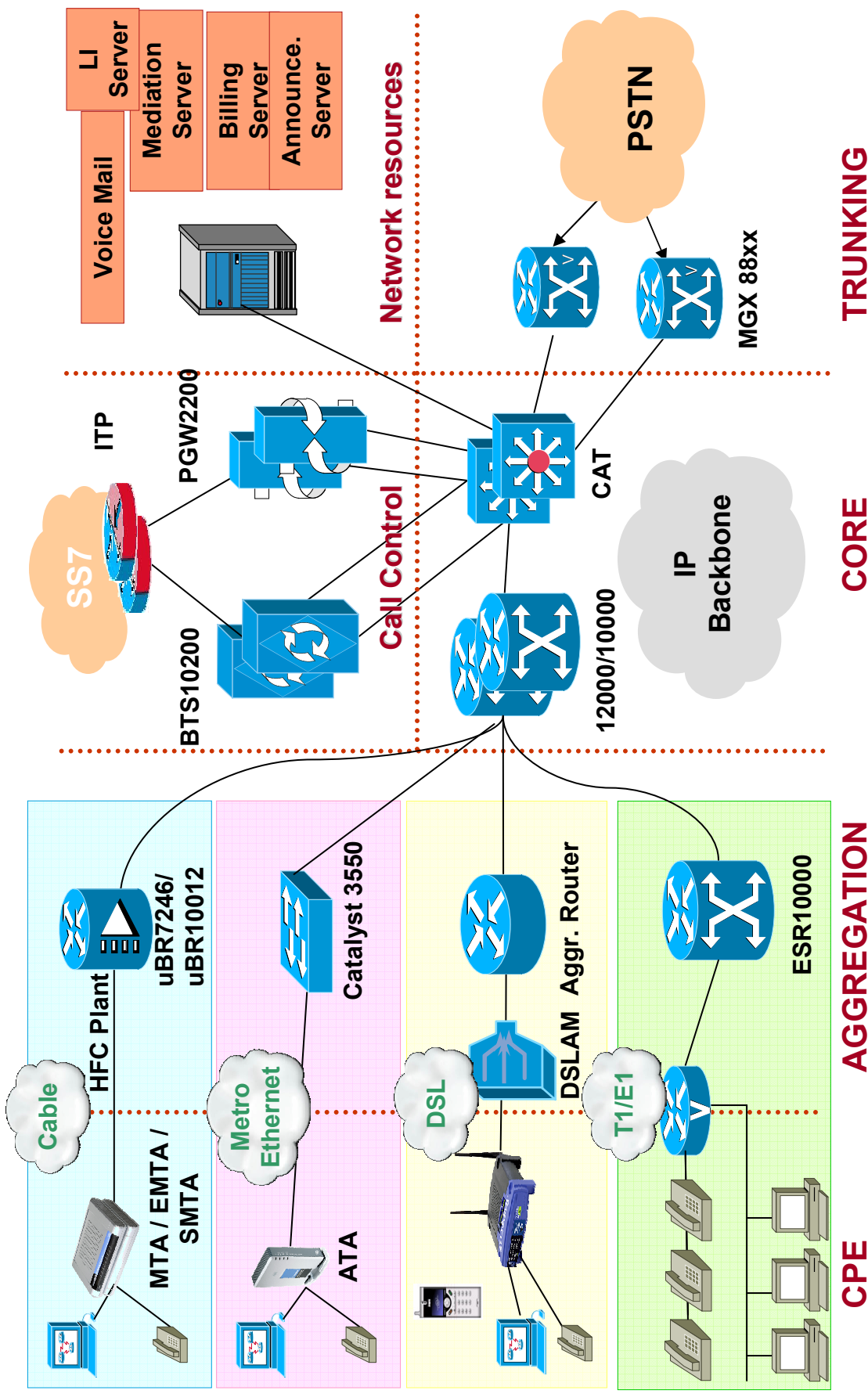
Growth of Residential VoIP Market

Exhibit 2: Residential VoIP vs. PSTN Long-distance Revenues, 2005-2011

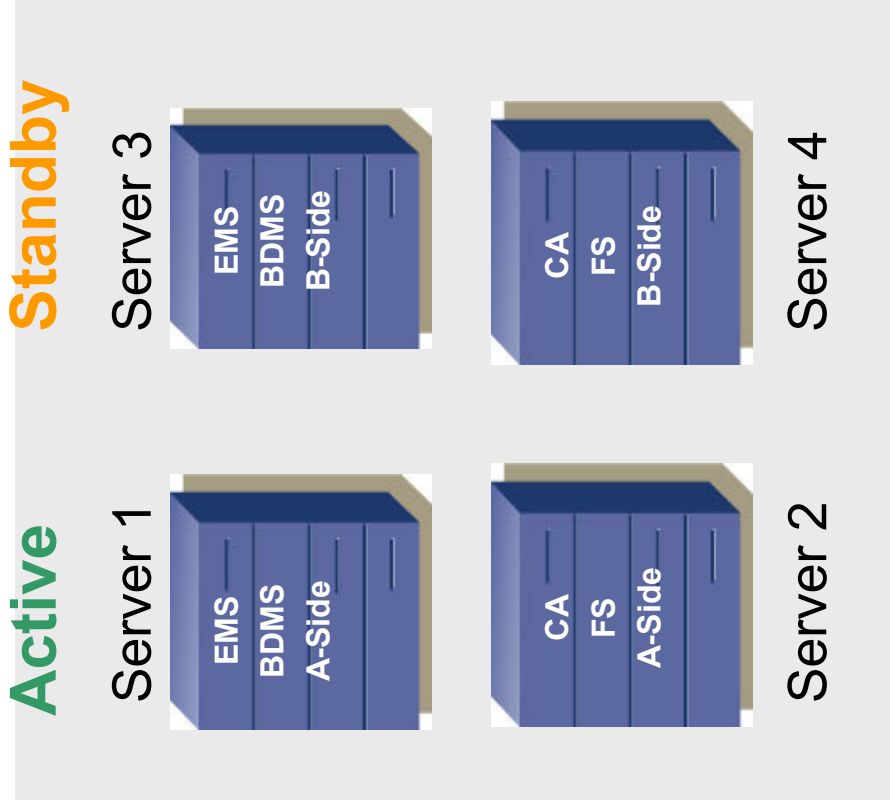


Source: Pyramid Research.

Cisco Softswitch Solutions Broadband VoIP Residential & Business Services



BTS 10200 Configuration



Fully Redundant Operation

- Deployed in a fully redundant primary and secondary configuration
- Consists of an active and a standby pair (1:1)
- Call state info is copied from the active side to the standby side so no established calls are lost in the event of a failure
- Keep alive timers are kept

BTS 10200 Components

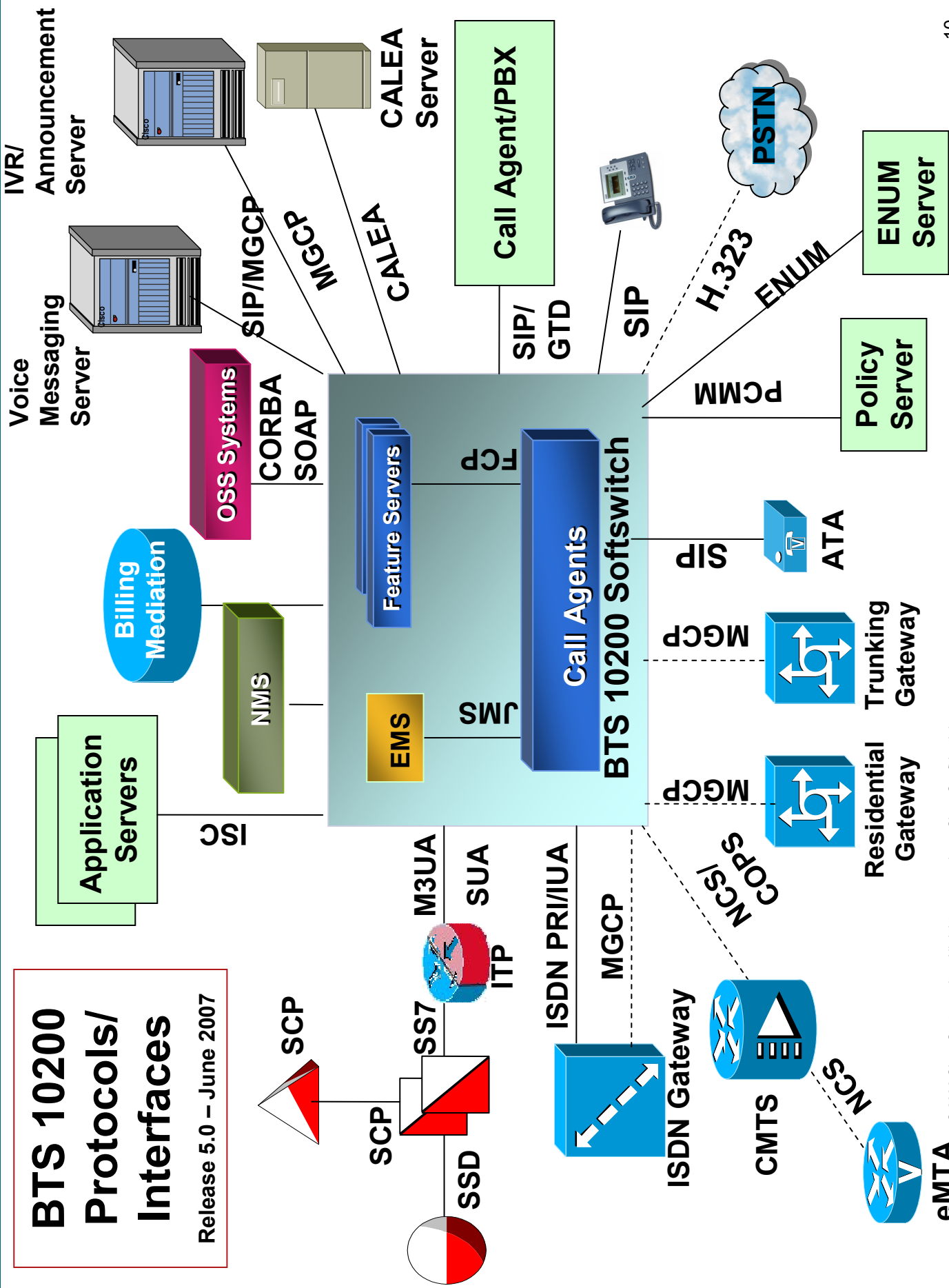
- **CA: Call Agent**
 - **Call Management System (CMS) and Media Gateway Controller (MGC).**
 - **Establishment, processing and tear-down of telephony calls.**
- **FS: Feature Servers**
 - **Provides POTS, Centrex, Tandem and IN network services and processing for service features such as call forwarding, call waiting, local number portability, etc.**
- **EMS: Element Management System**
 - **Provisioning, administration, reporting and billing functions.**
 - **Mediation device for Network Management Systems**
- **BDMS: Bulk Data Management System**
 - **Billing data**

BTS 10200 Platform Support

Hardware	Processors	Memory	Disk Size	Subscriber Database Capacity
Netra 240	2 x 1280	8 GB	2 x 73 GB	125,000
Netra 440	4 x 1280	8 GB	4 x 73 GB	125,000
Netra 1280	4 x 1200	8 GB	2 x 73 GB	125,000
Netra 1280	8 x 1200	16 GB	2 x 73 GB	200,000
Netra 1280	12 x 1200	24 GB	2 x 73 GB	200,000
Netra 245	2 x 1500	16 GB	2 x 73 GB	125,000
Netra 445	4 x 1593	16 GB	2 x 73 GB	125,000
Netra 1290	8 x 1500	32 GB	2 x 146 GB	200,000
T2000	8 core	16 GB	2 x 73 GB	125,000
5220	8 Core	16 GB	2 x 146 GB	TBD

BTS 10200 Protocols/ Interfaces

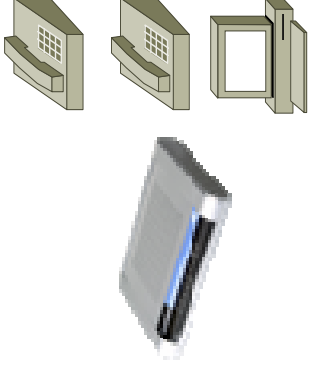
Release 5.0 – June 2007



Residential Subscriber Features

(MGCP/NCS/SIP)

- 40+ of the most frequently used residential subscriber features:
- Categories
 - Call Forwarding
 - Call Waiting
 - Calling Identity
 - Direct Inward/Outward Dialing for PBX
 - POTS
 - Class of Service Restrictions
 - Outgoing Call Barring



BTS 10200 Service Provider Business Voice Solutions

SOHO/Small Businesses

Network-based business voice services for SOHO or Small Businesses with Analog or IP Phones connected to the BTS 10200

Medium/Large Businesses

Network, as well as additional line side, business voice services enhance features offered on PBXs for medium to large businesses

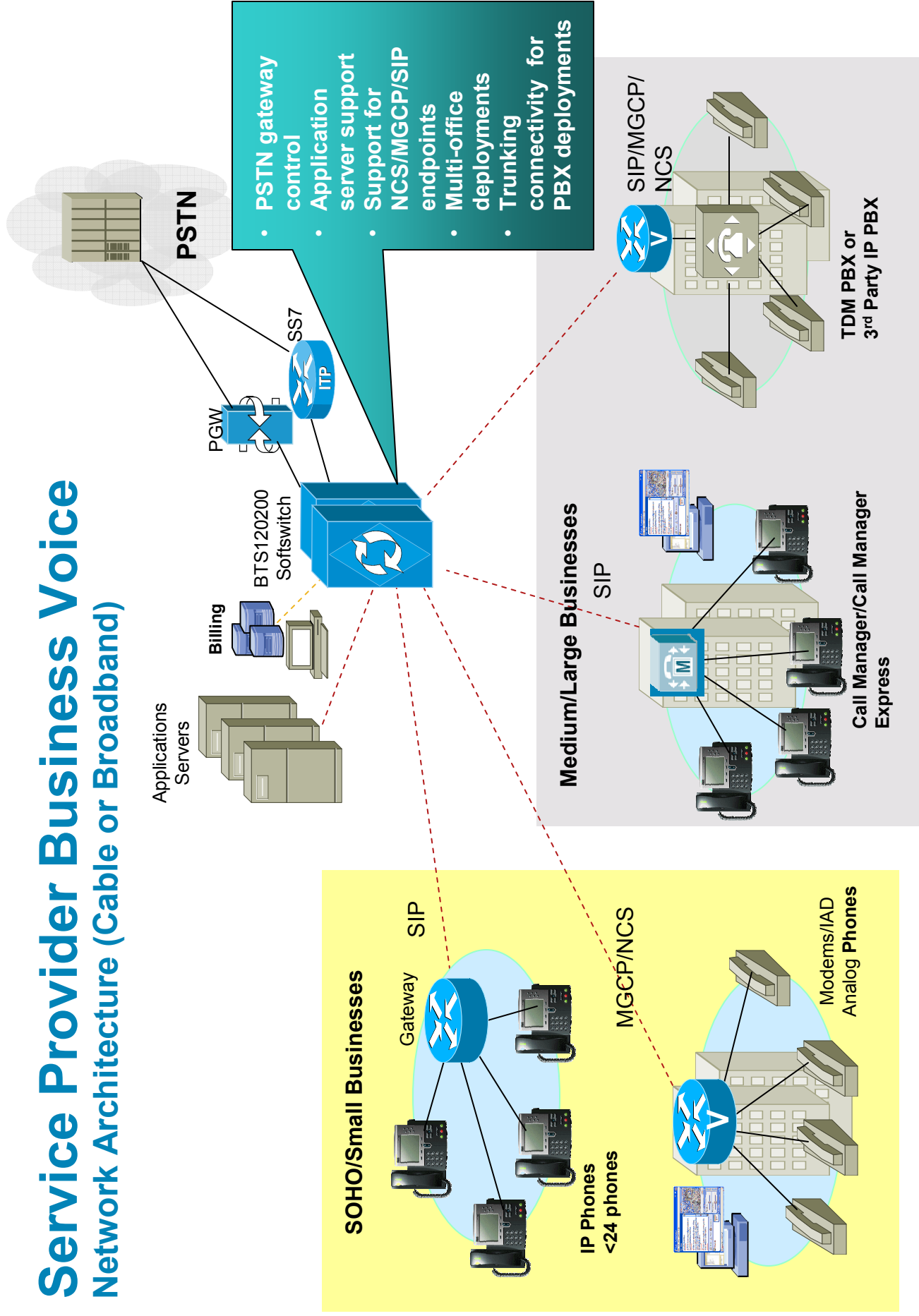
- Cisco Unified Call Manager/Unified Call Manager Express connected phones
- TDM PBX connected phones
- 3rd Party IP PBX connected phones



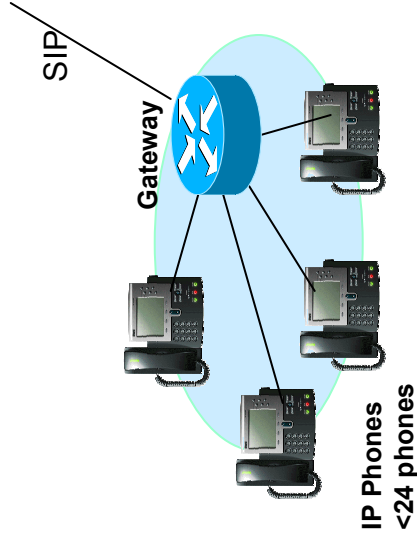
Service Providers Benefits

- **Single Network:** Deliver residential voice, business voice and data over the same network.
- **Multi-location:** Deliver business voice services to branch offices and telecommuters in a large geographic area from single switch.
- **Features:** Robust suite of business voice features delivered to IP or POTS phones.
- **Moves/Adds/Changes Simplified:** Phone number and features can follow subscribers.

Service Provider Business Voice Network Architecture (Cable or Broadband)



Service Provider Business Voice Services with IP Phones

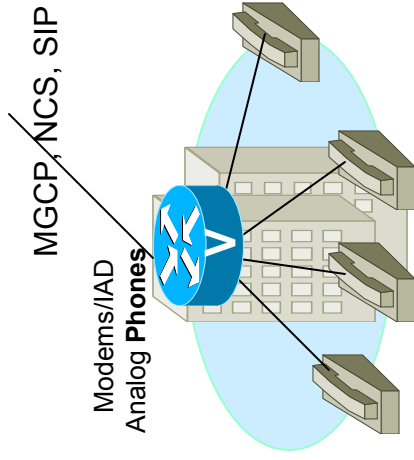


- **Attractive configuration for SOHO or small businesses**
- **Uses existing Ethernet infrastructure**
- **Phone features dependant on type of IP phone selected**
- **Support for both Cisco and non-Cisco IP Phones**

	Line-Side Features	MGCP/NCS	Network Features
Voice Features	<ul style="list-style-type: none"> ▪ Distinctive Ringing ▪ Call Forwarding ▪ Calling Name and Number Delivery ▪ Anonymous Call Rejection ▪ Call Transfer <ul style="list-style-type: none"> ▪ Attended ▪ Blind ▪ Remote activation of call forwarding 	<ul style="list-style-type: none"> ▪ DID/DOD ▪ Toll-Free Calling ▪ LNP for NA only ▪ NANP Black and White Lists (Number Blocking of NANP Operator Assistance Calls Blocking) ▪ Blocking of 900, 976 Calls ▪ Call blocking ▪ Call barring ▪ Casual Dialling ▪ Casual Call Restrictions (101XXXX) ▪ Class of Service ▪ Custom Dial Plan ▪ Blocking DA Calls ▪ Operator services ▪ Blocking of International ▪ Operator Assistance Calls ▪ DTMF <ul style="list-style-type: none"> ▪ Relay (RFC2833) ▪ G711 up speed ▪ Account code and authorization code over ISDN trunk ▪ Message Waiting Indicator ▪ Account code/Authorization code ▪ Outgoing Call Barring ▪ Emergency services ▪ ENUM based routing 	<ul style="list-style-type: none"> ▪ DID/DOD ▪ Toll-Free Calling ▪ LNP for NA only ▪ Call blocking ▪ Call barring ▪ Class of Service ▪ Custom Dial Plan ▪ Outgoing Call Barring ▪ Emergency services

* IP Phones have built-in features; dependent on manufacturer

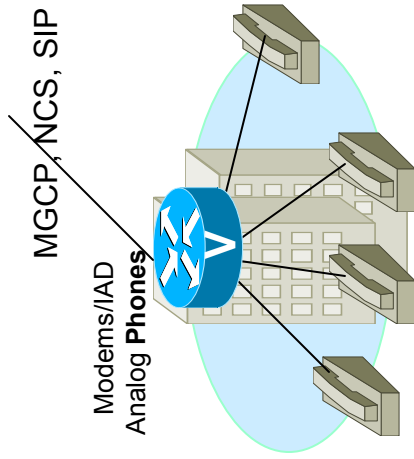
Service Provider Business Voice Services with Analog Phones



- **Attractive configuration for SOHO or small businesses**
- **Bundled services for both data and voice on the same network**
- **Uses existing analog phones**

Line-Side Features	
	MGCP/NCS
Enhanced Features	<ul style="list-style-type: none"> ▪ Anonymous Call Rejection (ACR) ▪ Automatic Callback (Repeat Dialing) (AC) ▪ Automatic Recall (Call Return) (AR) ▪ Hotline and Warmline Services ▪ Selective Call Forwarding (SCF) ▪ Selective Call Rejection (SCR) ▪ Selective Call Acceptance (SCA) ▪ Remote Activation of Call Forwarding (RACF)
Business Features	<ul style="list-style-type: none"> ▪ Account Code ▪ Authorization Code ▪ Direct Inward Dialing (DID) - Business Group ▪ Direct Outward Dialing (DOD) ▪ Business Group ▪ Multi-Line Hunt Group (MLHG) ▪ Call Hold (CHD) ▪ Call Park (CPRK) ▪ Call Retrieve (CPRK-RET) ▪ Do Not Disturb (DND) ▪ Directed Call Pickup With Barge-In (DPU) ▪ Directed Call Pickup Without Barge-In (DPN) ▪ Distinctive Ringing for Direct Inward Dial (DID) ▪ Distinctive Ringing/Call Waiting (DRCW) ▪ Speed Call (8 and 30)
	<p>Call Forwarding</p> <ul style="list-style-type: none"> ▪ Call Forwarding Unconditional (CFU) ▪ Call Forwarding On Busy (CFB) ▪ Call Forwarding on No Answer (CFNA) <p>Call Waiting</p> <ul style="list-style-type: none"> ▪ Call Waiting (CW) ▪ Cancel Call Waiting (CCW) <p>3-Way Calling</p> <ul style="list-style-type: none"> ▪ 3Way Calling (TWC) ▪ Usage Sensitive 3Way Calling (USTWC) <p>Calling Identity Features</p> <ul style="list-style-type: none"> ▪ Calling Number Delivery (CND) ▪ Calling Number Delivery Blocking (CNDB) ▪ Calling Name Delivery Blocking (CNAB) ▪ Calling Name Delivery (CNAM) ▪ Calling Identity Delivery and Suppression (CIDS) ▪ Calling Identity Delivery on Call Waiting (CICDW) ▪ Calling Identity Delivery Blocking (CIDB) <p>Call Trace</p> <ul style="list-style-type: none"> ▪ Customer Originated Call Trace (CT) <p>Multiple Directory Numbers</p> <ul style="list-style-type: none"> ▪ Multiple Directory Numbers (Teen Service (MDN))

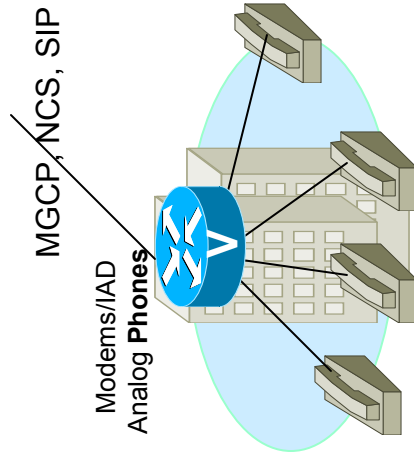
Service Provider Business Voice Services with Analog Phones



- **Attractive configuration for SOHO or small businesses**
- **Bundled services for both data and voice on the same network**
- **Uses existing analog phones**

Line Side Features	
	SIP
Enhanced Features	<p>Call Forwarding</p> <ul style="list-style-type: none"> Anonymous Call Rejection (ACR) Selective Call Forwarding (SCF) Selective Call Rejection (SCR) Selective Call Acceptance (SCA) Remote Activation of Call Forwarding (RACF) <p>Calling Identity Features</p> <ul style="list-style-type: none"> Calling Number Delivery (CND) Calling Name Delivery (CNAM) <p>Call Trace</p> <ul style="list-style-type: none"> Customer Originated Call Trace (CT) <p>Multiple Directory Numbers</p> <ul style="list-style-type: none"> Multiple Directory Numbers (Teen Service (MDN))
Business Features	<ul style="list-style-type: none"> Direct Outward Dialing (DOD) Business Group Multi-Line Hunt Group (MLHG) Call Hold (CHD) Call Park (CPRK) Call Retrieve (CPRK-RET) Do Not Disturb (DND) Distinctive Ringing for Direct Inward Dial (DID) Distinctive Ringing/Call Waiting (DRCW)

Service Provider Business Voice Services with Analog Phones



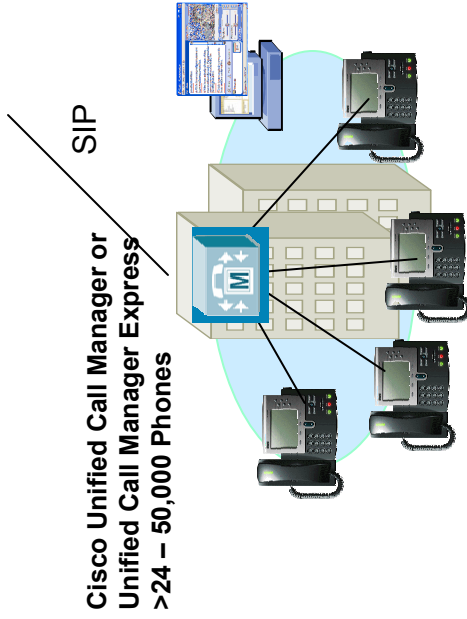
- **Attractive configuration for SOHO or small businesses**
- **Bundled services for both data and voice on the same network**
- **Uses existing analog phones**

Network Features	
MGCP/NCS	SIP
<ul style="list-style-type: none"> • DID/DOD • Toll-Free Calling • LNP for NA only • NANP Call & Toll Restrictions • Blocking of 900, 976 Calls • Call blocking* • Call barring • Casual Dialling • Casual Call Restrictions (101XXXX) • Class of Service • Custom Dial Plan • Blocking DA Calls • Private Dialling Plan • Operator services • Blocking of International • Operator Assistance Calls • DTMF <ul style="list-style-type: none"> • Relay (RFC2833) • G711 up speed • Account code and authorization code over ISDN trunk • Message Waiting Indicator • Account code/Authorization code • Outgoing Call Barring • Emergency services • ENUM based routing • Intra-PBX routing (feature limitations) 	<ul style="list-style-type: none"> • DID/DOD • Toll-Free Calling • LNP for NA only • Call blocking • Call barring • Class of Service • Custom Dial Plan • Outgoing Call Barring • Emergency services

*SIP features

Service Provider Business Voice Services

with Cisco Unified Call Manager/Unified Call Manager Express

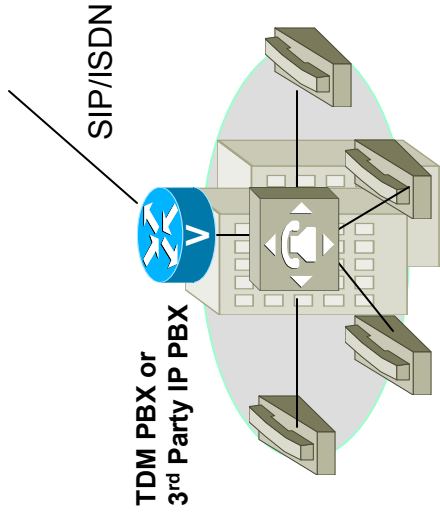


- **PSTN connectivity for Cisco Call Manager Express**
- **Call Manager Express Intra-Call Manager routing**
- **SIP for PBX connectivity**
- **Offer additional network services to Cisco IP PBX users**

Network Features	
MGCP/INCS	SIP
<ul style="list-style-type: none"> ▪ DID/DOD ▪ Toll-Free Calling ▪ LNP for NA only ▪ NANP Call & Toll Restrictions ▪ Blocking of 900, 976 Calls ▪ Call blocking* ▪ Call barring ▪ Casual Dialling ▪ Casual Call Restrictions (101XXXXX) ▪ Class of Service ▪ Custom Dial Plan ▪ Blocking DA Calls ▪ Private Dialling Plan ▪ Operator services ▪ Blocking of International ▪ Operator Assistance Calls ▪ DTMF 	<ul style="list-style-type: none"> ▪ DID/DOD ▪ Toll-Free Calling ▪ LNP for NA only ▪ Call blocking ▪ Call barring ▪ Class of Service ▪ Custom Dial Plan ▪ Outgoing Call Barring ▪ Emergency services
<ul style="list-style-type: none"> ▪ Account code and authorization code over ISDN trunk ▪ Message Waiting Indicator ▪ Account code/Authorization code ▪ Outgoing Call Barring ▪ Emergency services ▪ ENUM based routing ▪ Intra-PBX routing (feature limitations) 	<ul style="list-style-type: none"> ▪ Relay (RFC2833) ▪ G711 up speed

Service Provider Business Voice Services

with TDM PBX or 3rd Party IP PBX



- **Low cost entry for Service Provider customers who have an existing TDM PBX or 3rd Party IP PBX**
- **SIP or ISDN trunks for PBX connectivity**
- **Intra-PBX routing**
- **Offer additional network services to PBX users**

Network Features	
MGCP/NCS	SIP
<ul style="list-style-type: none"> • DID/DOD • Toll-Free Calling • LNP for NA only • NANP Call & Toll Restrictions • Blocking of 900, 976 Calls • Call blocking* • Call barring • Casual Dialling • Casual Call Restrictions (101XXXX) • Class of Service • Custom Dial Plan • Blocking DA Calls • Private Dialling Plan • Operator services • Blocking of International • Operator Assistance Calls • DTMF <ul style="list-style-type: none"> • Relay (RFC2833) • G711 up speed • Account code and authorization code over ISDN trunk • Message Waiting Indicator • Account code/Authorization code • Outgoing Call Barring • Emergency services • ENUM based routing • Intra-PBX routing (feature limitations) 	<ul style="list-style-type: none"> • DID/DOD • Toll-Free Calling • LNP for NA only • Call blocking • Call barring • Class of Service • Custom Dial Plan • Outgoing Call Barring • Emergency services

Service Provider Business Voice Services

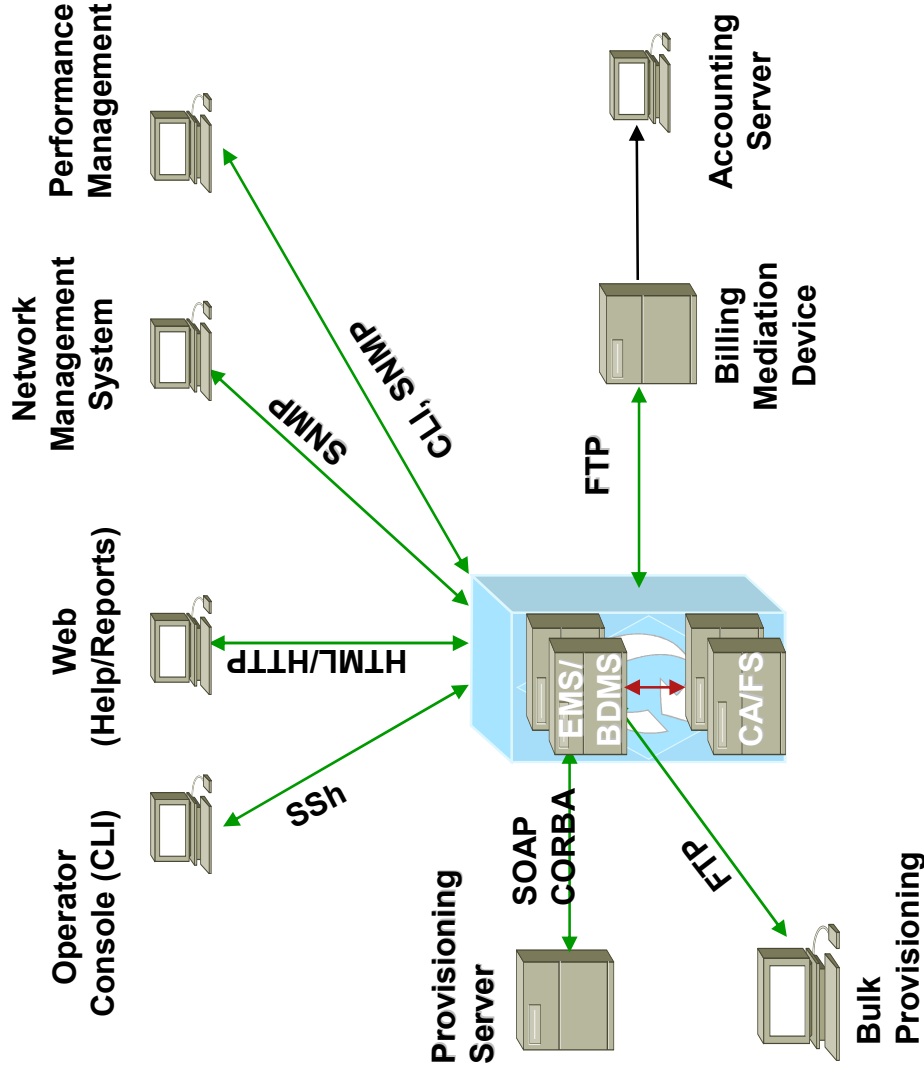
Customer Premise Equipment

- **Gateways**
 - Cisco AS53xx
 - Cisco AS54xx
 - Cisco 2811 Integrated Services Routers
- **IADs**
 - Cisco IAD 242x
 - Cisco IAD 243x
- **Phones**
 - Analog Phones (MGCP/NCS)
 - IP Phones (SIP)
- **Modems**
 - eMTA (SA, Linksys, Arris, Motorola, Thompson)
- **PBXs**
 - Cisco Unified Call Manager
 - Cisco Unified Call Manager Express
 - Cisco UC500
 - TDM PBXs* (Alcatel/Lucent, Nortel, Intertel, Siemens, Toshiba)
 - 3rd Party IP PBXs* (Alcatel/Lucent, Nortel, Intertel, Siemens, Toshiba)

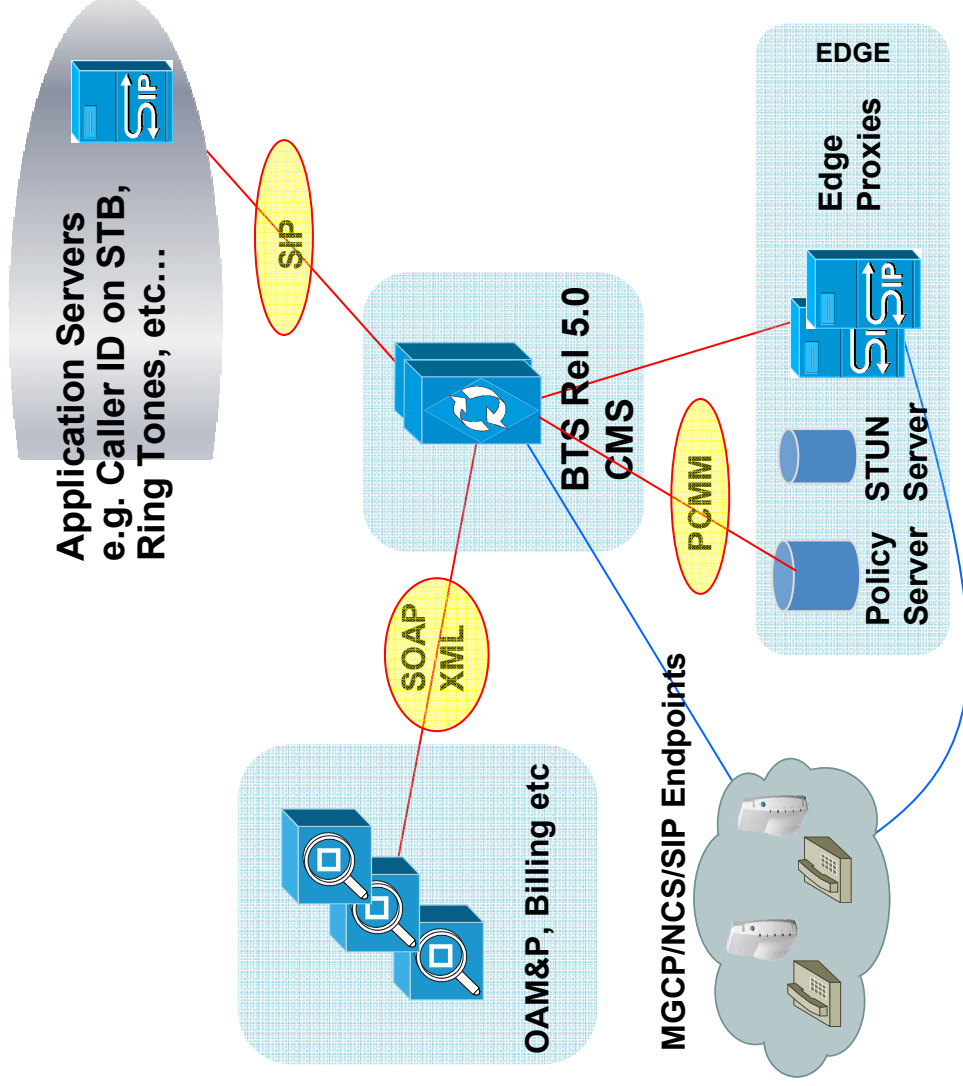
**Please contact BTS Marketing for information or questions concerning a particular PBX.*

Provisioning, Operations, and Maintenance

- BTS 10200 EMS serves as a master database for subscriber data, trunking configurations, and other service related information
- BTS 10200 provides standard interfaces to network management and business management applications
- BTS 10200 provides a craft interface, SNMP agent, and FTP for element management and subscriber provisioning
- A bulk data transfer utility is available for ease of provisioning
- Soap/XML or CORBA interfaces are supported for provisioning
- Data export functionality for backup and disaster/recovery



SIP Triggers



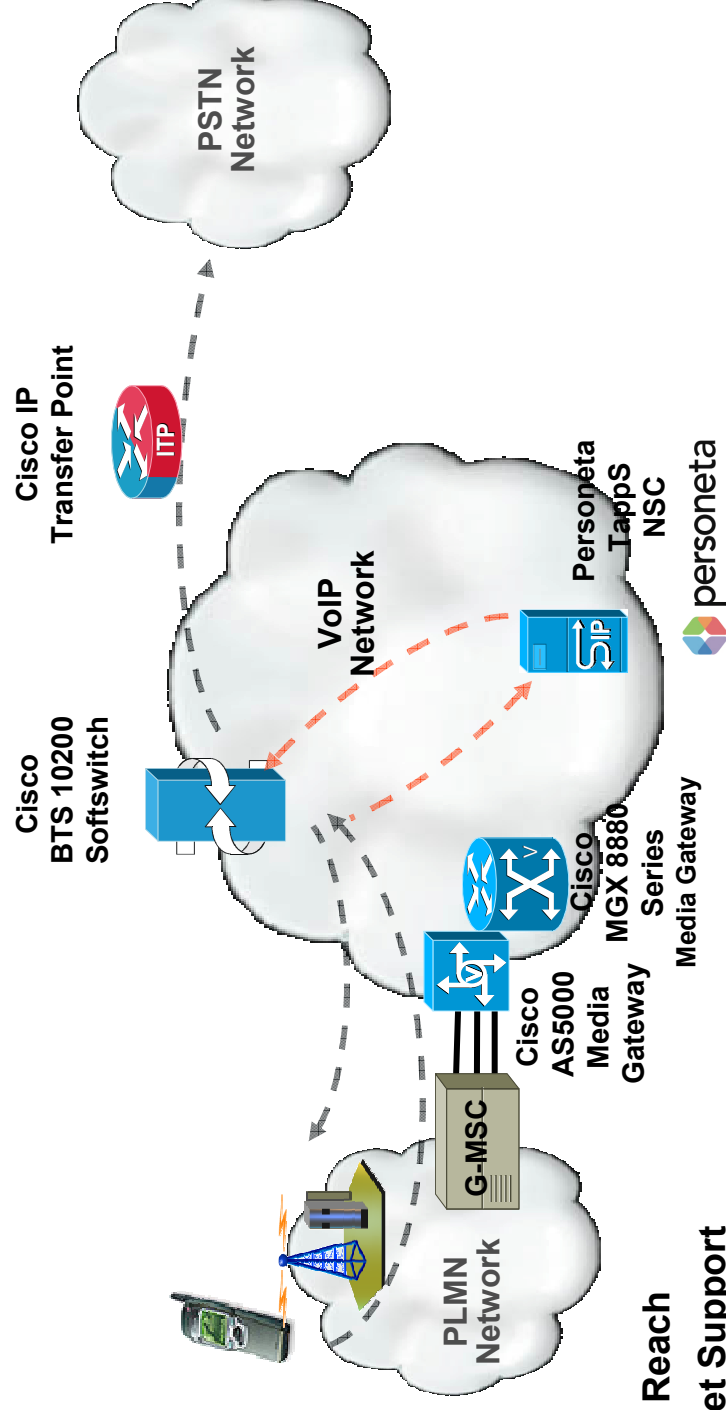
- **Support for Application Server delivered features (examples)**
 - TV-Caller ID: with or without Picture (Terminating Trigger)
 - Custom Ring-back Tone
 - Enhanced Voicemail
 - Voicemail Screening
 - Smart Call Forward/Return
 - Dialpad Sound Effects
 - Multi-Ring Call Forward
 - Click to Dial
- **SOAP/XML interface for OAM&P**
- **Other key features include CALEA I04 compliance, PCMM**

Note: As of Release 5.0 MR1 – GA June 30, 2007

BTS 10200 FMC Solution with Personeta

Benefits

- User-selected manual roaming puts user in control
- Switch networks on demand for best user experience



Key Features

- Single Number Reach
- Multiple Handset Support
- Find Me/Follow Me
- Mid-call pickup
- Web self-provisioning & administration

Billing

- **Two forms of billing are supported:**
 - CDR billing
 - Packet Cable real-time EM billing
- **IP or PSTN residential and business billing data in the same billing file**
- **Quickly and easily transmit billing files to external billing mediation applications via FTP, based on customer definable parameters**
- **All business services are captured in the billing records (refer to BTS Billing Guide for details)**
- **QoS data is also included with the billing data**
- **CDR records are to the millisecond detail level**
 - **yyyy-MM-dd HH:mm:ss:mmm**
- **Support for both traditional PSTN billing as well as IP specific billing needs**

Billing & QoS Data Collection

Billing Data

- Charge Number
- Originating Number
- Terminating Number
- Dialed Digits
- Signaling Start Timestamp
- Elapsed Call Time
- Carrier Identification Code
- Service Feature
- Database Query Timestamp
- Orig. Trunk Type & Number
- Term. Trunk Type & Number
- Release Cause Code
- Etc

QoS Data

- Packets Sent
- Octets Sent
- Packets Received
- Octets Received
- QoS Packets Lost
- QoS Jitter
- QoS Average Latency
- Etc.....

Provisioning Features & Functions

- Bulk Data Export Utility – Quickly backup provisioning data for convenient restoration of lost provisioning data
- 50 concurrent CLI sessions with Context-sensitive help and command completion (CLI)
- 50 concurrent CORBA/XML or SOAP/XML sessions utilizing the BTS XML schema format
- Query subscriber related data through a single command rather than a series of commands. (Extended Read Access Command - ERAC)
- Block provisioning during maintenance windows
- Graceful switchover to ensure all open provisioning items are drained (DEFERROR)
- LDAP/Radius support for CLI, CORBA and SOAP access

Reliability & Availability

Highlights

- **Components**
 - CA/FMS and EMS - 1:1 redundancy
 - Automatic restart on call agent switch over
 - Architecture eliminates single point of failure
- **Processes**
 - Continuous process monitoring with automated restart
- **Databases**
 - Automatic Shared Memory Backup (ASMB) for subscriber database
- **Billing**
 - Billing data is replicated between primary and secondary call agents
 - Billing data is stored locally in the event of a link or other failure

Performance

Highlights

- 200,000 subscribers (dependent on call model, hardware platform and memory)
- Overload controls for congestion (ex. American Idol traffic volumes)
- Scales from 2 to 16 CPU's
- Highly-threaded architecture for resiliency
- Call Setup Time (MCGP/NCS)
 - Dial tone delay (moment you go off hook and receive dial-tone) – **0.007 seconds**
 - Post dial tone to audible ring back – **0.118 sec.**
 - Delay from Term off hook to voice path – **0.213 sec.**

Interoperability

Highlights

Network Equipment

Cisco gateways, IAD, routers, switches

Customer CPE/Phones

Cisco, Linksys, Scientific Atlanta, Arris, Motorola, Leadtek, Vizufon, Thomson, Clique (IP Phones and soft clients)

3rd Party Application Servers

Think Engines	Announcement server
IP Unity	Voice mail, announcement server, privacy director
Camiant	Policy Server
CableMatrix	Policy Server
SS8	CALEA server
Bay Packets & MINDCTI	Billing
Jacobs Rimmel	Provisioning

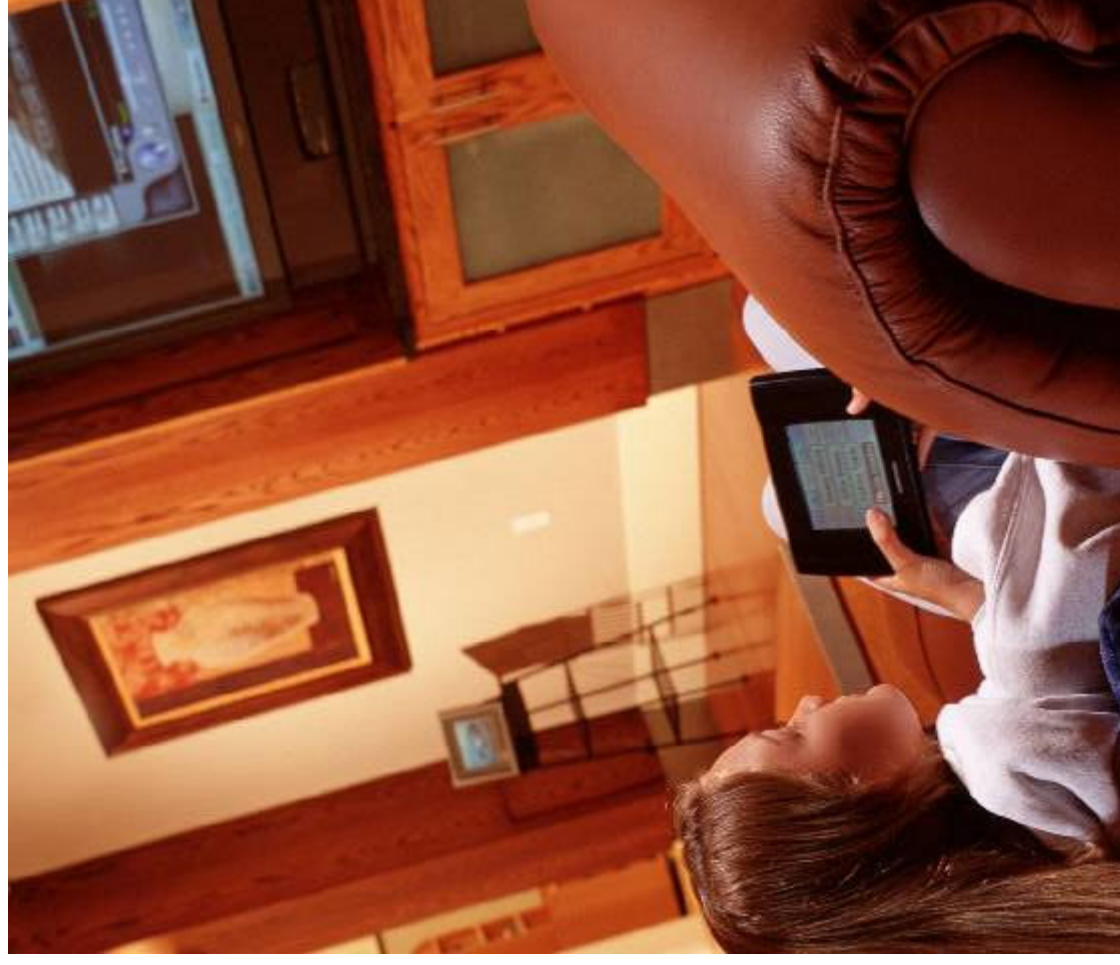
http://www.cisco.com/univercd/cc/td/doc/product/voice/bts10200/bts5_0/relnotes/btsrn_50.htm#wp1280180

Agenda

Cisco IP NGN Vision

BTS 10200 Overview

BTS 10200 Roadmap



BTS 10200 Roadmap

	3.5X	4.X	5.0 Current Release	6.0	7.0
Schedule	GA: Oct 2004-Jun 2005	GA: Jan 2004-Sept 2006	GA: 6/30/07	GA: 7/31/08	GA: TBD (~ 7/31/09) Not committed
Market	<ul style="list-style-type: none"> T1 (Digital) US/APAC SP Cable 	<ul style="list-style-type: none"> European Cable South American Wireline/Cable 	<ul style="list-style-type: none"> Comcast/TWC Cable Operators (WW) Wireline/Wireless* Service Providers US Alternative SP Europe Alternative SP Emerging Alternative SP 	<ul style="list-style-type: none"> Broadband & Cable Operators (WW) US Alternative SP Europe Alternative SP Emerging Alternative SP 	<ul style="list-style-type: none"> Broadband & Cable Operators (WW) US Alternative SP Europe Alternative SP Emerging Alternative SP
Applications	<ul style="list-style-type: none"> SIP Trunking Additional SMB features Quality of Service – Cable ISDN/PRI variant CALEA SMB Services Residential Class 5 Features Centrex Features Voice Mail H.323 support (IP/ISDN) Tandem Class 4 trunking E911 	<ul style="list-style-type: none"> SMB Service Enhancements SIP SIP Trunking Enhance. SIP End-points SIP BTS/PGW for Intl Cisco IP Phones Packet Cable Billing Certification Network Management COPS Disaster Recovery ASMB Domestic & Intl. PSTN signaling (South America/Europe/APAC) IPT – Signaling Server 	<ul style="list-style-type: none"> SIP SIP Triggers ISC Interface for Apps Svcs (residential) 23 additional SIP Features SIP Server Groups (June 2007) CMS Clustering (MGC) Pre-IMS <ul style="list-style-type: none"> separation of MGC/CMS working PCMM & Policy Server Inter-Business Services (T38 Fax) Disaster Recovery Cluster Routing LERG Enhancements ENUM Routing (June 2007) Auto shared-memory backup restoration (June 2007) Incremental shared memory Auto-restart SOAP/XML provisioning interface 	<ul style="list-style-type: none"> Disaster Recovery SIP Enhancements <ul style="list-style-type: none"> Add'l commercial voice services SIP Infrastructure <ul style="list-style-type: none"> inbound SIP from PSTN CAC for SIP Trunking Cause code mapping Overlap dialing No limitation on # of orig/term SIP Triggers Single number reach "IMS Ready" HSS/TAS Sh interfaces ISC enhancements Operational Enhancements <ul style="list-style-type: none"> Improved provisioning performance PC 1.5 SOAP/XML 	<ul style="list-style-type: none"> Objectives: <ul style="list-style-type: none"> Strategic mobility infrastructure and mobility service enhancements Strategic IMS enhancements Enable continued rapid growth for existing customers (scalability, reliability) Continued enhancements of Operations, Maintenance, Provisioning and Billing Continue to expand residential & business services
DB		125,000*	200,000*	200,000*	200,000*

*Subscriber capacity – estimates only; actual capacity will vary and may be less depending on number of subscribers and call model

Release 6.0

- New SIP business features
 - Account and Authorization code collection
 - 1 digit & 2 digit speed dialing (both group and personal)
 - Hunt groups
 - Hunt group DID priority over UCD
 - Call Park
 - Call pickup (retrieve)
 - Directed Call Pickup with Barge-in



“IMS Ready”

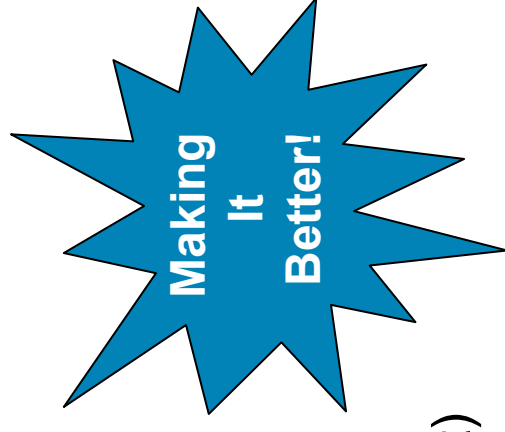
- Support for Diameter Protocol Support (Sh) to interface to Home Subscriber Server (HSS)
- Support for BTS as a Telephony Application Server (TAS)
- ISC enhancements
- IMS Story – our approach will be a pragmatic one; driven by needs of customers

Infrastructure Enhancements



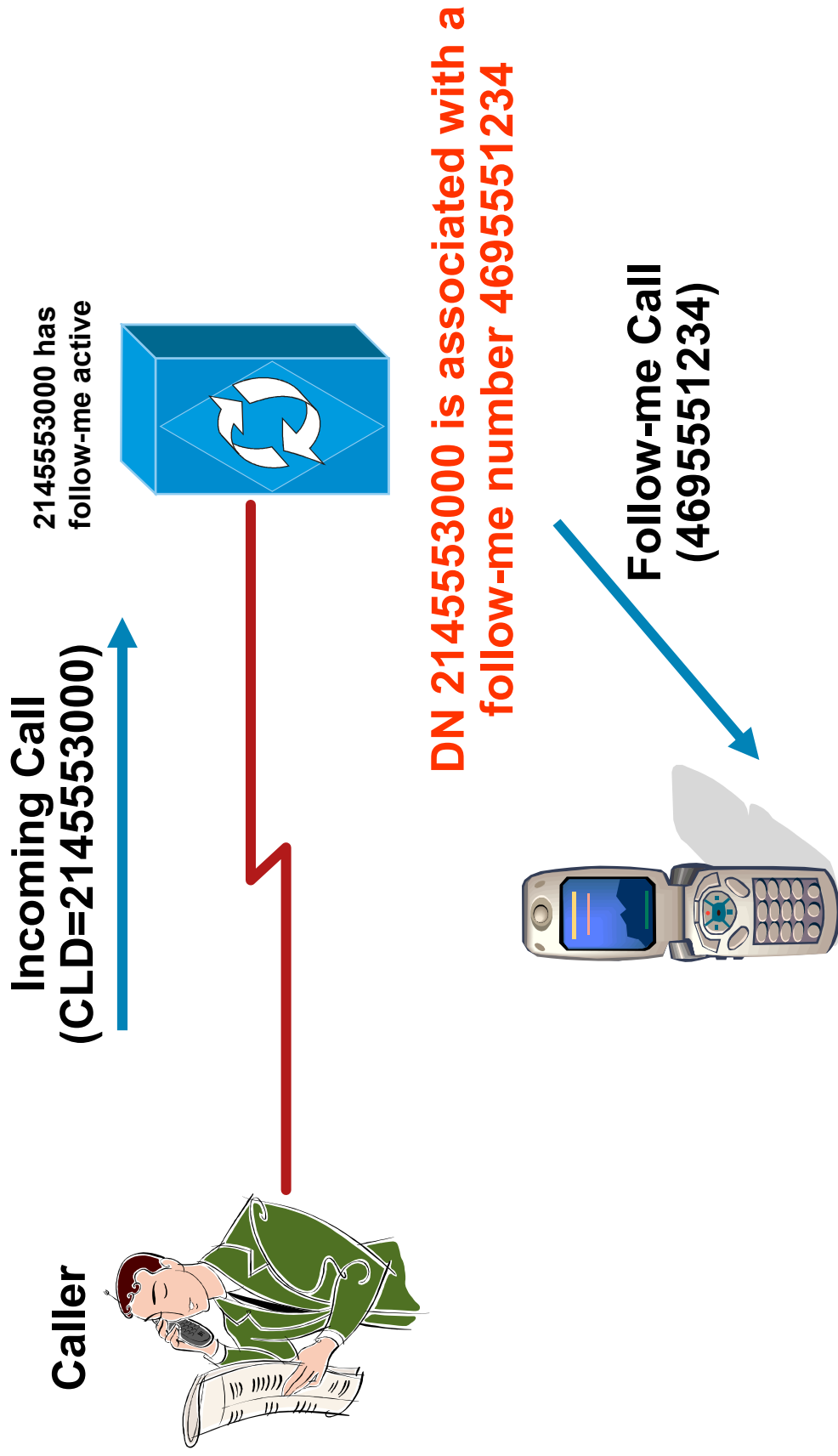
- SIP Protocol Enhancements
 - Call Admission Control for SIP Trunking
 - PSTN-SIP Cause code mapping
- Overlapping dialing support
- FIM/XML editable by customer
- Call model enhancements to reduce capacity overhead
- Turkish ISUP

Operational Enhancements

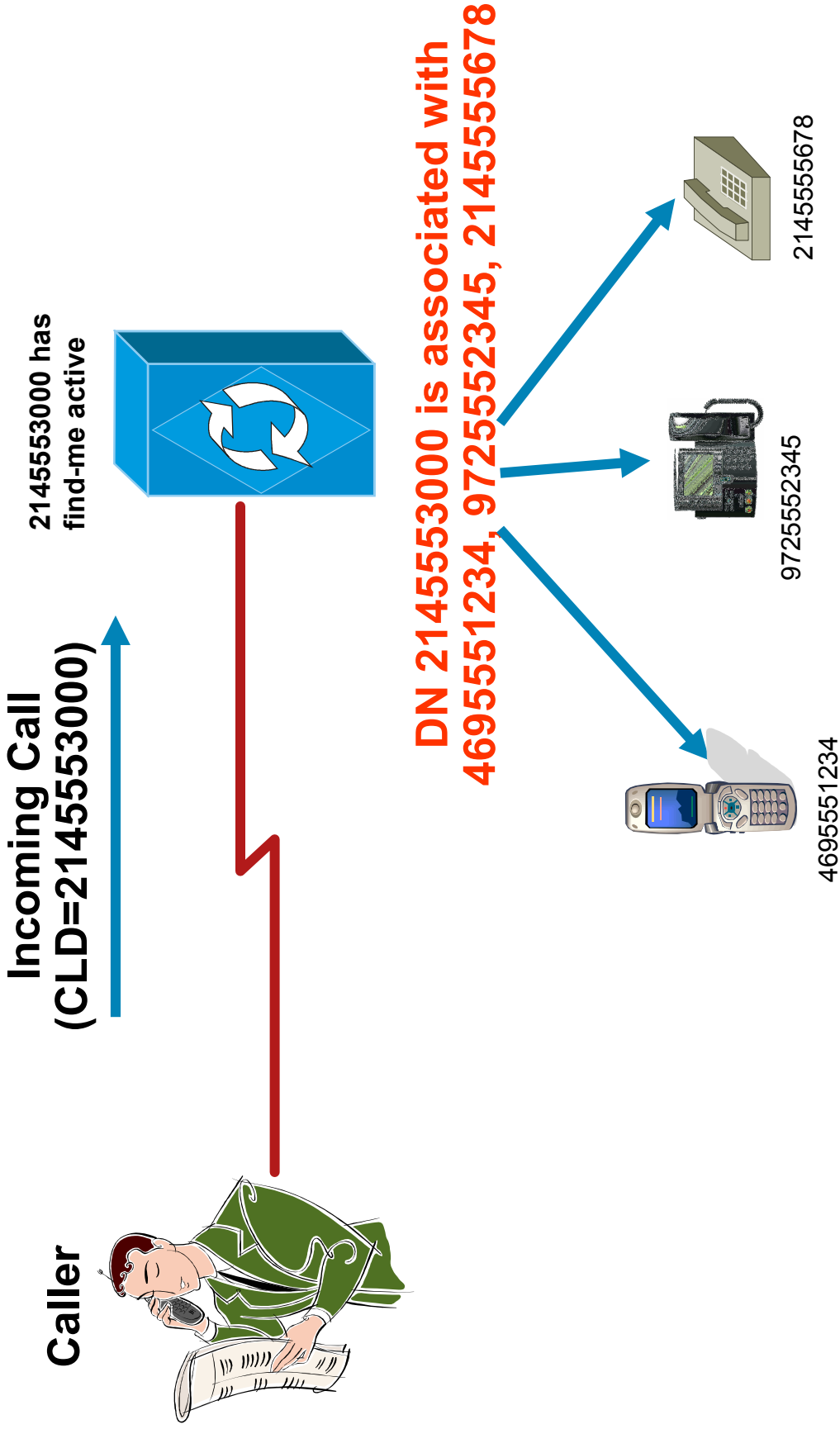


- Provisioning
 - Improve Performance
 - Support SOAP/XML (Packet Cable 1.5 compliant)
 - note – moved to R5.0 MR2 (Oct, 2007)
- Traffic measurement improvements for SIP
- SNMP Trap Enhancements
- Display 911 calls in progress
- Continued improvements to upgrade process
 - Lower complexity, reduce manual steps, reduce execution time

Single Number Reach - Follow-me



Single Number Reach - Find-me





Release 7.0

EFT	March 31, 2009
FCS	July 31, 2009

Goals for Release 7.0

- **Application Server component** to rapidly introduce new revenue generating features
- Strategic **IMS** enhancements
- Enable continued rapid growth for existing customers (**scalability, reliability**)
- Continued enhancements of **Operations, Maintenance, Provisioning and Billing**
- Continue to expand **SIP residential & business services**
- Continue **interoperability** with other Cisco products and 3rd Party vendors

Cisco BTS 10200 Resources

- Cable Voice Solutions
 - Sales Tools, White Papers, Case Studies, etc
http://www.win.cisco.com/sp/segments/cable/solutions/cable_voice_multi_com_sol.shtml
- BTS Product Home Page
 - <http://www.cisco.com/en/US/products/hw/vcallcon/ps531/index.html>
- BTS General Literature
 - http://www.cisco.com/en/US/products/hw/vcallcon/ps531/prod_literature.html
- BTS Technical Product Information
 - http://www.cisco.com/en/US/products/hw/vcallcon/ps531/tsd_products_support_series_home.html
- BTS Release 5.0 Technical Notes
 - http://www.cisco.com/univercd/cc/td/doc/product/voice/bts10200/bts50/relnotes/btsrn_50.htm#wp1280180



Key Takeaways

- More than 8.5 million subscribers worldwide
- Broadband and cable networks
- More than 170 platforms deployed worldwide
- Field proven; hardened
- End-to-end solution testing in-house
- Updated set of residential and business features
- Predictable roadmaps
- Excellent engineering, testing, quality teams

