

ComControl Product Bulletin

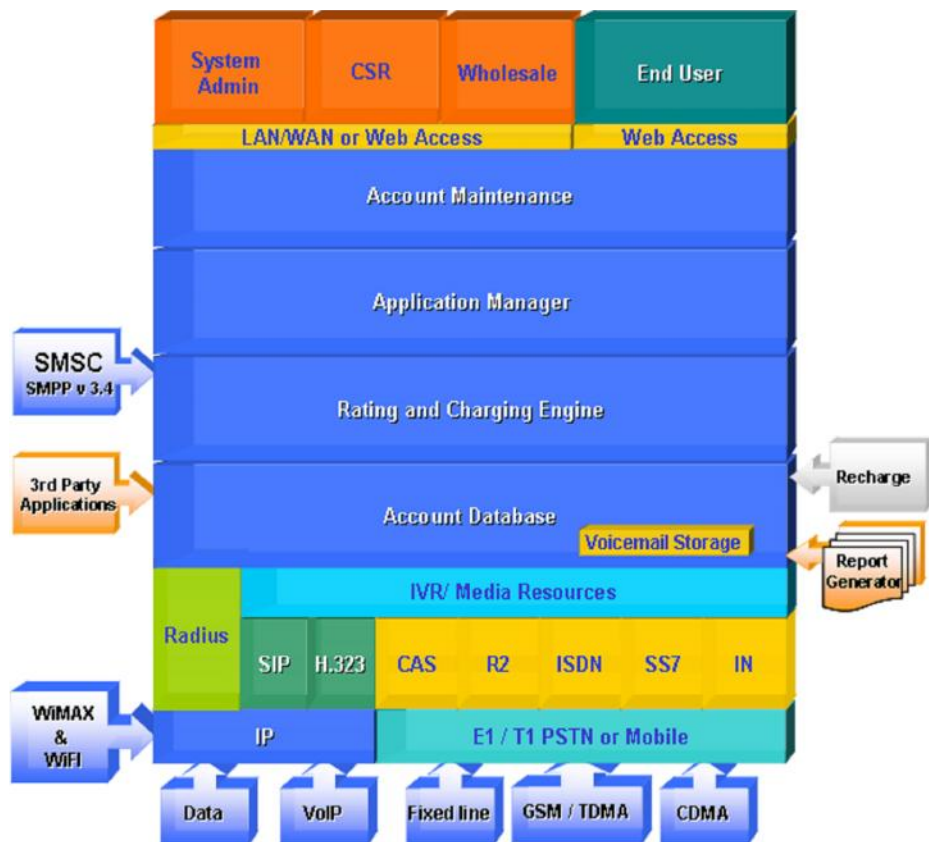
ComControl is an integrated platform incorporating CPDI's patented technology for real time rating and charging of voice and data services across mobile, fixed and Internet transport mechanisms. All the software features available in ComControl are provided in the core offering without requiring additional license fees, which includes all the following and more:

Highlighted Features

- Fraud Control
- Bad Debt Recovery
- Voicemail
- Least cost routing
- Multilingual customizable voice prompts
- Reorigination/follow-on calls
- Speed call options
- Warning expiration times and notices
- Custom message of the day
- Message broadcast, delivery & notification
- Message Waiting Indicator (MWI)
- "No card" accounts (AutoCard)
- Questionnaires
- Voice promotion
- Multiple recharge options
- Point-of-sale activation and recharge
- Operator default
- Project codes
- Utility Pay
- Origination/destination number blocking
- Restricted destinations

Rating Options

- Initial and additional billing increments
- Area, city and country code rate table
- Day and time rate table
- Tiered rating
- Holiday rates
- Minimum billing
- Multiple monthly fees
- Unit pricing
- Customized time increments
- Multiple surcharges
- Enhanced feature rates
- Multiple percentage based fees
- Two-legged rating table
- Vertical and horizontal (V&H) rating
- Region and zone rating
- Access & DNIS based charges
- Recurring charges
- Call blocking and call restriction
- Activation fees
- Hidden/announced charges
- Multiple call fees
- Operator services
- Promotion plans
- All ISO recognized currencies



Account Management
 Web-based wholesale, CRM and retail portals
 Real-time administration and configuration
 Multiple wholesaler support
 Remote activation by wholesalers
 PIN/account import
 Batch generation
 Real-time reporting and statistics
 Audit management
 Configurable access rights
 CSR balance adjustment calculator
 Random number generator

Account Options
 Prepaid
 Postpaid and limited credit postpaid
 Multiple authentication IDs
 Restrict access by DNIS
 Single number termination
 Promotion account
 Account pooling
 Calling number as account

ComControl supports hardware configurations that are ideal for customers ranging in size from competitive startups with low-density requirements to service providers requiring carrier-class solutions. Supporting both centralized and distributed architectures, the ComControl platform is configured for modular expansion, allowing seamless incremental growth with no system downtime. Platforms around the world are continuously operating at 99.999% availability.

IP Interface

Transports SIP and H.323 media and signaling traffic over IP networks
Acts as switching matrix for TDM telephony calls
Uses packet communications and voice compression
Supplies echo cancellation and silence suppression

Protocols Supported

SIP, H.323
RTP, RTCP

Voice Compression

Codecs: G.711 (VAD/CNG/PLC), G.729 (AB), G.723.1, G.726, OKI and IMA ADPCM, ILCB

Other Features

DTMF via RFC 2833 and user indications
G.168 echo cancellation
Transcoding (RTP)
Jitter buffer (adaptive)
Voice activity detection
Variable RTP frames per packet
Selectable DSCP

Ethernet Connection

Dual redundant 10/100 BaseT Ethernet ports (RJ-45)

Telephony Interface

Full telephony gateway solution
Performs DTMF detection, generation and relay
Supplies echo cancellation and silence suppression
Acts as switching matrix for IP telephony calls
T1 or E1 (120 or 75 ohms) support

Protocols Supported

E1 MFC/R1 and MFC/R2
T1 CAS Robbed-bit signaling
ISDN
SS7 – ITU, ANSI, ETSI, UK, France, China variants

Other Features

Tone generation
DTMF suppression
Fast/slow pitch variant replay
Universal tone detection
Call progress tone detection
Pulse/rotary dial detection
Grunt detection
OKI and IMA ADPCM
Silence suppression with support for Voice Activity Detection and Comfort Noise Generation

SS7/IN Support

SSP and STP configurations
Supports multiple destination SSPs
Supports A-links or F-links
Active/active SS7 redundancy solution available providing load sharing and balancing for routes, links, and chassis

Interfaces

T1 or E1 (120 or 75 ohms)
V.11 (V.35 compatible)

Capacity

SS7 Links: Up to 128
SS7 Linksets: Up to 64

Protocols Supported

SS7 Protocols: MTP, ISUP, SCCP, TCAP,
IN Protocols: INAP, GSM-MAP, IS41-MAP, CAMEL, CS1, AIN, WIN

Other Interface Protocol Support

RADIUS
SMPP v3.4
TCP/IP



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