

WTL Software Improvements [IPNx, SoIP & PVx]

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1. Management & Billing

- 1.1. SW Config: web-based configuration & status tool
- 1.2. SW Admin: SQL-based business management application for running services on WTL platforms.
- 1.3. Pay & Call: subscriber/reseller web portal with eShop & online payment gateway
- 1.4. WebTL: Web-based real time billing package for Call Shops, Cyber Cafes, Hotels and other end-user environments.

2. SS7

- 2.1. DMTP3: SS7 resilience, split signalling links
- 2.2. Support SS7 for on STM-1
- 2.3. Remote control of AudioCodes media gateways
- 2.4. Changes for France Telecom Spirou, Belgacom and KPN formal interconnect tests
- 2.5. Support for UK-specific SS7 features
- 2.6. Control SS7 bit fields per destination on outbound call
- 2.7. Control SS7 charge indicator per DDI on two-stage calls
- 2.8. MAP Signalling: SS7 Interconnection with mobile operators

3. Switching/Routing

- 3.1. LNP (Local Number Portability) support
- 3.2. Ratio routing: allows % share of calls to be routed to certain carriers
- 3.3. Emergency calls: required by certain operators [for example France Telecom]. Allows identification of what geographic zone a subscriber is in even if he has a non-geographic CLI.
- 3.4. Number of fallback carriers in routing table increased from 5 to 9.
- 3.5. Customer-based numbering plans: controlled by CLI or User Name & Password
- 3.6. Programmable CLI conversion on outbound leg
- 3.7. Support for payphone detection via number list on one stage call
- 3.8. Support split E1, used in timeslot reservation for emergency services
- 3.9. Extra fields added to CDR: for data call support, QoS measurement

4. VoIP (SIP)

- 4.1. Many improvements and extensions to keep up to date with new RFCs
- 4.2. Automatic divert to voice mail / alternative number on busy, on no answer, in all cases
- 4.3. Smart redirection to SIP subscriber: try on SIP phone, then on mobile, then to voicemail
- 4.4. Termination to sip registered devices (allow residential termination)
- 4.5. REFER for more complex call scenarios
- 4.6. REDIRECT for more complex call scenarios

- 4.7. Register security
- 4.8. Digest authentication
- 4.9. Local IP binding
- 4.10. Support COLP
- 4.11. Better support for NAT
- 4.12. Improved T.38 support
- 4.13. Better support for codec transparency
- 4.14. SIP-I: Carrier to carrier SIP

5. VoIP (NOP)

- 5.1. Improved handling of VoIP over satellite
- 5.2. NOP: 'rain-proof' VoIP, allows trunk to dynamically adapt to quality of the IP link.
- 5.3. VoIP: QoS (Quality of Service) measurements taken and recorded in CDR

6. SBC (Session Border Controller)

- 6.1. Series of built-in SBC features for security and network integrity.
- 6.2. Protect against SIP "packet-of-death"
- 6.3. DiffServ: uses ToS bit (Type of Service) to mark VoIP traffic as high priority

7. Rating, Billing & Pre-Paid Service

- 7.1. VAT supported in real time billing
- 7.2. Accuracy to 5 digits in balances and rates
- 7.3. Working with negative balances allowed (credit mode)
- 7.4. Allow SIP subscriber on prepaid debit card
- 7.5. Agent can configure definition of "holiday" days in year
- 7.6. Per-PIN modification of charge profile allowed
- 7.7. Plus many small improvements in operation of pre-paid services

8. Added Services

- 8.1. Data Calls: Pre-Paid data service supported (requires RADIUS connection to data network)
- 8.2. Data Call Rating: ability to rate data calls by volume not duration
- 8.3. RADIUS server: allows WTL to be pre-paid account database for 3rd party products (for example data services)
- 8.4. RADIUS Client: allows WTL switch to work with 3rd party pre-paid account database.
- 8.5. RADIUS assisted routing: allows WTL switch to route calls according to instructions from a 3rd party application
- 8.6. RADIUS data services: Active-Active redundant architecture
- 8.7. Conference service: B-party can hang-up and callback to continue conversation
- 8.8. Mobile Callback: MSRN number can be retrieved via SIP
- 8.9. Mobile Callback: support MAP-based MSRN retrieval
- 8.10. Webconnect protocol to trigger callback calls
- 8.11. IVR using a tree hierarchy configured via quick numbers and internal ddis (typically used for advertising)