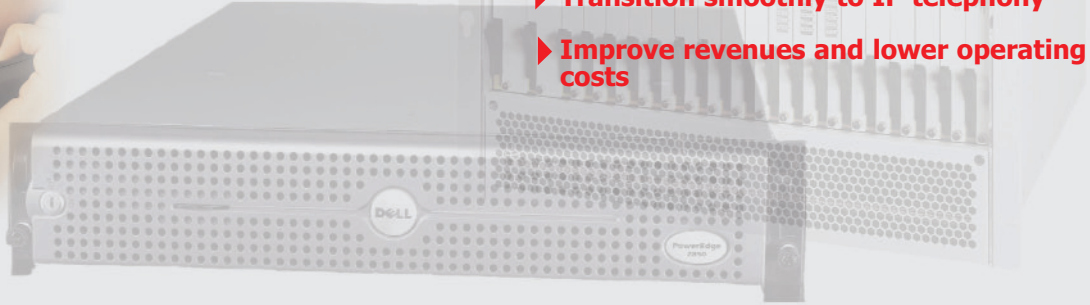




XL-MAX

Scalable Class V platform for IP and TDM Networks



- ▶ Reduce IP complexity and improve manageability and reliability
- ▶ Offer unique class IV and class V services with improved subscriber satisfaction
- ▶ Transition smoothly to IP telephony
- ▶ Improve revenues and lower operating costs

Key Features

- > Powerful pre/post paid class IV and V applications including calling card, dial-tone/long distance, tandem carrier, fraud control, voice mail and conferencing
- > Integrated next-gen media gateway, media server and signaling server (Excel CSP 2090 and MSP 1010)
- > Supports industry standard application server hardware
- > Extended support, training and professional managed service options

IP is rapidly redrawing the telephony landscape with its ability to lower costs and rapidly deliver compelling new services. NACT's XL-MAX enables service providers to transition smoothly to IP and its accompanying benefits while minimizing costly disruption to subscribers and revenues.

XL-MAX is a new generation suite of pre/post-paid class IV and V applications that include calling card, dial-tone, long distance, tandem carrier, fraud control, voice mail and conferencing. These applications are matched to a fully IP-enabled Next-Generation service and switching platform that provides "any-to-any" IP and TDM interfaces and protocols, media server and programmable application server interface. This gives service providers an unparalleled ability to confidently embrace VoIP and Next Generation applications and services using a turn-key solution that is highly scalable, extremely reliable and easy to manage.

Consider just a few of the many unique advantages of NACT's XL-MAX:

Lower Costs. XL-MAX supports SIP for VoIP-to-VoIP and VoIP-to-TDM interconnects. This gives providers the flexibility to select the lowest cost routing regardless of network type. Furthermore, XL-MAX offers advanced fraud and least cost routing controls and OSS/BSS features that help ensure revenues and reduce operating costs.

Market-Proven Applications. NACT applications are built on more than 20 years of experience and are superior to newer SIP-based applications. This means service providers will find breadth, depth and stability in all XL-MAX applications and allow them to confidently meet subscriber demands for features and reliability.

Scalability. XL-MAX uses a modular design that allows for easy upgrade and expansion of all components. This gives service providers maximum flexibility to expand capacity and quickly deploy new services.

Simplicity and Reliability. Other Next-Gen solutions contain as many as five separate components that need to be integrated, tested and separately managed (media server, media gateway, signaling gateway, soft switch and application server). However, the XL-MAX uses just two major components (integrated services platform and application server). In addition, the XL-MAX solution offers advanced fault-tolerant capabilities like full redundancy and "hot-swap" capability. This means providers can enjoy carrier grade reliability with lower cost of ownership.

Since 1980 NACT has been delivering and supporting complete solutions – not just components – to telecom service providers. In addition, NACT backs its solutions with customizable pre and post sales support, training and professional managed service packages. No one else comes close to matching NACT for feature depth, performance, scalability, reliability, and lower cost of ownership.

Do you want to quickly and seamlessly add new IP revenue services and applications?

Do you want to rapidly add an IP infrastructure without complexity or disruption?

Do you want to upgrade your revenue applications to ensure higher revenues, greater reliability and increased subscriber satisfaction?

XL-MAX Extended Features and Technical Specifications

Class V Features

- Call waiting
- Call forwarding (busy, no answer, all)
- 3-way calling
- Do not disturb
- Anonymous call rejection
- Caller ID
- Recall
- Redial

Applications Features

- Speed calling
- Debit, credit and calling card
- Residential long distance
- International callback (signal and IP launched)
- Conference bridging
- Interactive voice response and information services
- Tandem switching
- Distributed tandem
- International gateway
- One number
- Fixed value disposable card
- One time and automatic credit card recharge
- Programmable scripting (create new and unique call flows and marketing programs)
- Least cost routing across all channels
- Speaker verification (voiceprint software)
- Voicemail
- Call home
- Chain calling
- Point of sale activation
- Credit card recharge
- Automatic recharge
- Real time customer service
- Partition system data
- Virtually unlimited number of rate plans
- 6 rate periods fully definable per rate plan (i.e. day, afternoon, evening, night, weekend, holiday)
- 4 call increments fully definable per rate plan (i.e. first 10 sec. free, next 50 sec. \$1.00, next 10 min. \$5.00, then \$0.06 per 30 sec. thereafter, great for emulating pricing programs)
- Real time billing
- Billing configurable down to 1 second increments

- Surcharges based on call type (i.e. pay phones, prisons, hotels, etc.)
- DNIS or incoming number surcharges
- ANI/CLI authorization
- Restrict calls from a bad ANI List
- 35 simultaneous languages supported
- Fixed expiration date
- Programmable period expiration (# of days)
- On line automated account information
- Personal speed dial lists
- Group speed dial lists
- Internet interface

Fraud Protection Features

- Maximum travel speed
- Simultaneous user prevention
- Allow/restrict calls to certain states/cities
- Allow/restrict calls to certain countries
- Allow/restrict calls to certain phone numbers
- Call home card to a single number only
- Calls to numbers on a speed dial list only
- ANI/CLI blocking
- Call type blocking (i.e. no calls from prisons)
- PIN attempt limit
- Maximum calls per day/week/month
- Maximum minutes per call day/week/month

Supported Protocols

- SS7/C7
- ISDN (many variants)
- Feature Group A
- Feature Group B
- Feature Group D
- MFR2
- DTMF & MF
- T1
- E1
- J1
- Voice over IP (SIP)
- Voice over Frame Relay

Excel CSP 2090 System

- Industry standard Intel®-based hardware running Microsoft® Windows 2003 Server and Oracle® DBMS
- Distributed client-server design--multiple sites can share common database
- Integration with Microsoft® Office and Windows Server administration tools for routine provisioning and configuration
- Service creation environment to customize and easily extend services

CSP 2090 chassis

- Matrix Controller 2000 Series 3 CPU card (EXS-CPU 1300)
- Matrix Controller Series 3 I/O card (EXC-MIO-1300)
- Cable – part number 64-0046-00

Supported TDM Interfaces & Cards

- ISDN PRI (LNX-PRI-1100)
- ISDN Series 3 (EXS-PRI-1300)
- T1 16 Span (EXS-T1C-1160)
- T1 100 ohm (EXS-TIO-1000)
- E1 16 Span (EXS-E1C-1160)
- E1 I/O
- E1 120 ohm (EXS-EIO-1000)
- E1 75 ohm (EXS-EIO-1010)
- SS7 Series 3 (EXS-SS7-1360)

Supported IP Interfaces & Cards

- IP Signaling Series 3 (EXS-SCS-1000)
- CCS I/O Series 3 (EXS-7IO-1300)
- IP Network Interface Series 2 (EXS-VDC-1220)
- Multi-function Media I/O (CSP-BIO-1000)
- Supported DSP Interfaces & Cards
- DSP Series 2 (CSP-DSP-1320)
- Multi-function Media I/O (CSP-BIO-1000)
- Supported EXNET Interface & Cards
- EXNET-ONE Card (EXS-XIO-1200)
- EXNET Fiber Optic Cable (16-500X-00 where X = length)

Switch room requirements

- -48V V DC, 25 amp power.
- Air conditioning: Operating temperatures are – 0 C to 50 C (32 F to 122 F), 5% to 85% humidity.
- Altitude – up to 4000m (13,123 ft)

