

Convergence

Changing the way businesses communicate

GREENGATE

VOICE OVER IP GATEWAYS

Evolve your legacy circuit-switched network to a converged IP network

Convergence is shaping the future of converged communications. It unleashes the power of an integrated IP-PBX, soft switch and VoIP gateway. This ensures that you get the best of both worlds, the economy and flexibility of IP networks coupled with the reliability associated with a robust telephony switching platform. Our technology brings a robust solution that unifies voice and data communication requirements.

GreenGate is a next generation integrated communication system based on IP Switching technology that gives you cost effective telephony over circuit, Internet or intranet platforms.

Key benefits:

- Lowest total cost of ownership
- Comprehensive suite of services and applications
- Powerful management features
- Provides a robust base for Contact center solutions

GreenGate Series includes the C-10, C-50 and C-100 offering a cost-effective yet reliable and scalable way to extend converged multiservice data/voice networking to branch offices. They work with existing analogue phones, IP Phones and Soft Phones simultaneously, simplifying deployment of IP-telephony. Service integration using IP-

protocols over the Internet enables administrators to reduce long-distance toll charges between offices, and support voice-enabled desktop applications such as integrated messaging. GreenGate provides flexibility and manageability through modular design to meet demanding and evolving requirements, such as comprehensive security, multi service data/voice/fax integration.

Field –proven voice and fax technology and feature-rich design makes the GreenBox Series an excellent choice for various emerging VoIP applications. Target markets include MTU, rural area and remote POTS extensions for the IP-PBX architecture. These stand-alone analog/digital VoIP Gateway subsystems provide superior voice-technology for connecting legacy telephony and PBX systems as well as integration with new IP-Based PBX architecture.

- VoIP deployment for Enterprises and ISP
- POTS and FAX extensions for IP PABX
- VoIP private PABX networking (Voice VPN)
- Supports Calling Cards, Pay Phones, Hotels etc.

Compliant with multiple protocols including SIP, H.323, MGCP and MEGACO, the GreenGate enables flexible deployment and interoperability for the evolving next generation networks. Using Convergence GreenGate, Network Equipment Providers and System Integrators can effectively deliver carrier-hosted converged services as well as enterprise-based applications. Silence suppression and comfort noise generation is provided to make phone callers feel comfortable when there is no voice IP packets transmitted on the line. Adaptive jitter buffer is provided for smooth voice reception, and lost voice packet recovery is provided to improve the quality of voice over the Internet



GREENGATE C-100

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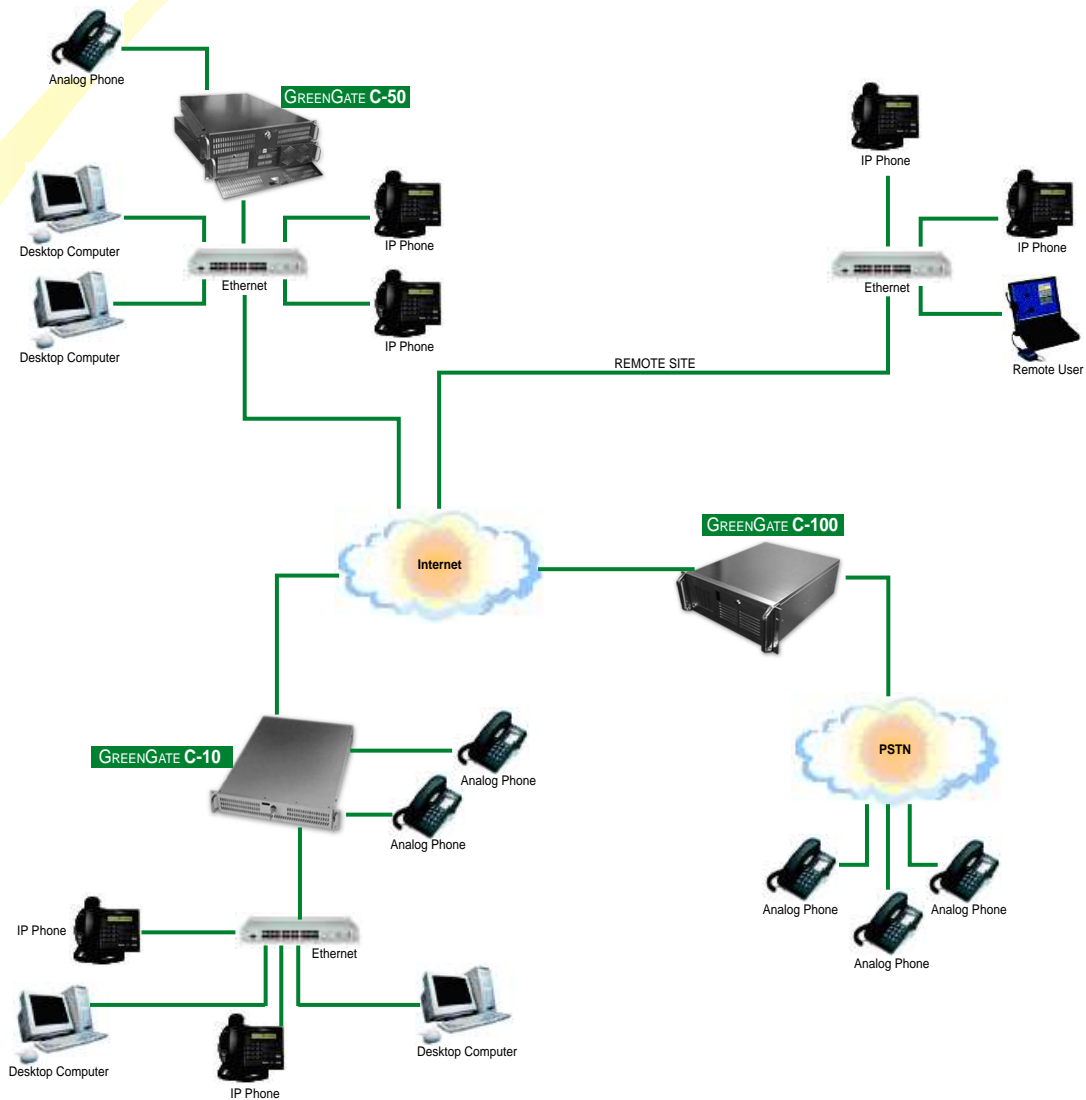
Platform for Multiservice Networks

Supports multiple simultaneous calls, using analog and digital connections to phones, faxes, key systems, PBXs, and PSTN switches. Convergence GreenGate IP telephony networks reduce or eliminate interbranch toll charges resulting in drastic reductions in operational expenses.

Delivers IP-telephony enriching features including, audio conferencing and transcoding capabilities. Using quality-of-service (QoS) features, such as LLQ, CBD, HLZ, RSVP, and Custom and Priority Queuing, voice traffic is digitized and encapsulated in IP packet, Frame Relay, or ATM and consolidated with data to extend multiservice infrastructure to the branch office.

The GreenGate family distinguishes itself by its networking flexibility, high degree of scalability and the lowest lifecycle cost of ownership. The GreenGate can scale to large-scale installations with thousands of ports.

- Digital (T1/E1) and Analog Telephone
- Support for Analog phones, soft phones and IP phones.
- Detection of Touch-Tones
- Detection of Call Progress Tones.
- Drop and Insert Call transfer (Bridge) for Digital Trunks
- Support for Analogue lines in a digital system
- Multiple signaling protocols for Digital Trunks
- DNIS (or DDI), and In-Band ANI (or CLI) Support



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IP based solution

GreenGate is a robust IP based solution offering the scalability and reliability required for today's packet telephony applications. It supports multiple T1/E1 per base unit and multiple units can be interconnected to achieve the desired density. Greengate supports the following Protocols.

- H.323 version 2, SIP
- IAX
- MGCP
- SKINNY
- Voice Codecs include
 - GSM
 - G.729 (available through purchase of commercial license(s))
 - G.723.1 (pass through)
 - Linear
 - Mu-Law
 - A-Law
 - ADPCM
 - ILBC
 - LPC-10
 - MP3 (decode only)

Today's enterprises require integrated solutions that can cater for all their communication requirements resulting in a low cost of ownership. GreenGate is well positioned for diversified communication requirements of small and large enterprises.

Telephony Services

- Voicemail System
 - Password Protected
 - Separate Away and Unavailable Messages
 - Default or Custom Messages
 - Multiple Mail Folders
 - Web Interface for Voicemail Checking
 - E-mail notification of Voicemail
 - Voicemail Forwarding
 - Visual Message Waiting Indicator
 - Message Waiting Stutter Dialtone
- Auto Attendant
- Interactive Voice Response
- Overhead Paging
- Flexible Extension Logic
 - Multiple Line Extensions
 - Multi-Layered Access Control
 - Direct Inward System Access
- Directory Listing
- Conference Bridging
- Unlimited Conference Rooms
- Access Control
- Call Queuing
- ADSI Menu System

- Support for Advanced Telephony
 - Features
 - PBX Driven Visual Menu Systems
 - Visual Notification of Voicemail
 - Call Detail Records
 - Local Call Agents
 - Remote Call Agents
 - Protocol Bridging
 - Provides seamless integration of technologies
 - Offers a unified set of services to users regardless of connection type
 - Allows interoperability of VoIP systems

Call Features:

- Music on Hold
- Music on Transfer
- Flexible mp3 based system
 - Volume Control
 - Random Play
 - Linear Play
- Call Waiting
- Caller ID
- Caller ID Blocking
- Caller ID on Call Waiting
- Call Forward on Busy
- Call Forward on No Answer
- Call Forward Variable
- Call Transfer
- Call Parking
- Call Retrieval
- Remote Call Pickup
- Do Not Disturb

VoIP Interoperability:

GreenGate provides transparent bridging between Voice over IP protocols and traditional telephony equipment. In addition, GreenGate can also transfer calls from one system to another.

- H.323
- Session Initiation Protocol (SIP)
- Media Gateway Control Protocol (MGCP)
- TDMoE
 - Offers Zero Latency
 - Uses Commodity Ethernet Hardware
- Voice over IP
 - Allows for Integration of Physically Separate Installations
 - Uses commonly deployed data connections
- Allows a unified dial plan across multiple offices

Traditional Telephony Interoperability

- Robbed Bit Signaling Types
 - FXS and FXO
 - Loopstart
 - Groundstart
 - Kewlstart
 - E&M
 - E&M Wink
 - Feature Group D
- PRI Protocols
 - 4ESS
 - Lucent 5E
 - DMS100
 - National ISDN2
 - EuroISDN
 - BRI (ISDN4Linux)



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TECHNICAL SPECIFICATIONS



	C-10	C-50	C-100
Telephone Interfaces	1 to 4 Ports FXO/FXS	4-24 ports FXO/FXS or multiples of 24 ports	1-4 E1/PRI Multiples of 4 PRI
Life Line	Automatic cut through of a single line analog in case of power failure (FXO version only)		Not Applicable
Network Interfaces	10/100 UTP, Quad 10/100 UTP, 100 FX / 1000 SX / 1000 LX, FXO/FXS , Quad-E1/Quad T1, Octal V.35 Sync, STM-1 ATM		
Indicators	Channel status and activity LEDs		
Fax detection	Yes	Yes	Yes
Signaling	FXS/FXO Loopstart, Groundstart, Kewlstart, E&M, E&M Wink, Feature Group D, DTMF		
Control	IAX, SIP and MGCP		
Provisioning	BootP, DHCP and TFTP, Remote management using Web browser, Remote and local syslog support		
Power	90-260 VAC/47-63 Hz		
Environmental	<i>Operational: 0 to 50°C, Storage: -10 to 70°C Relative humidity: 10-90% noncondensing</i>		
Dimension(DxWxH)	606 mm x 422 mm x 89 mm		531 mm x 422 mm x 178 mm
Mounting	19" Rack mount		

More information about Convergence Business System can be found on the web at :

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