



## The clear breakthrough in networked business telephony



Featured above: BOSâNOVA Claro 8-port analog gateway

- **Evolutionary no-risk cross-company call routing.** Maximizes savings and guarantees clear calls
- **Exceptional voice quality — with every call.** Enhanced through proprietary quality-boosting algorithms
- **No tampering with telephony equipment and no additional investment.** Seamless integration into existing infrastructure
- **Fully user transparent.** No change in dialing habits. No user retraining
- **Always up.** Built-in path redundancy ensures instant access to the PSTN (public switched telephone network) at any time
- **Fully secure.**

### Smart Move

BOSâNOVA Claro is the first point-to-point call routing solution that meets all the demands of businesses in controlling call costs — without sacrificing call quality or data safety. It provides free office-to-office calling over existing data networks whenever call quality is good, and when it's not, reverts transparently to the PSTN. *No matter what*, you can make a carrier-grade phone call. Fully secure with the Blue Seal Security Lock™, BOSâNOVA Claro is simple to install, easy to maintain, and completely user-transparent.

Unlike traditional telephony gateways, BOSâNOVA Claro switches *all* the relevant corporate traffic to the company's data network — without PBX reprogramming, without additional PSTN extensions, and without retraining the staff.

Savings are immediate and substantial and can be documented and analyzed through user-defined Excel reports generated by the BOSâNOVA CDR (call detail record) Report Generator.

BOSâNOVA Claro maximizes telephony cost savings through unique positioning and seamless integration with the existing telephony and network infrastructure. Simply plug the PBX PSTN output (PRI E1/T1 or analog lines) into one side of the BOSâNOVA Claro gateway, the PSTN central office lines into the other, and then connect the gateway to the data network. This

architecture allows the gateway to effectively capture potential traffic for routing over IP from *all* lines, not just some of the lines, and moreover, that no incremental PSTN capacity is required. Your existing equipment is fully leveraged — without PBX customization — and without the expense of additional lines or voice cards.

Voice quality is optimized substantially through BOSâNOVA proprietary algorithms that boost QoS (quality of service). These features include a dynamic, adaptive jitter buffer to improve packet delivery, redundant packet routing to minimize packet loss, and dynamic bandwidth adjustment.

Overhead costs are minimized through the provision of easy system deployment and maintenance supported by gateway self-deployment, built-in set-up wizards and centralized, feature-rich, browser-based, secured remote administration tools. CDRs are available for viewing on a real-time basis, and can be automatically and securely transferred to a central server for analysis.

The proprietary BOSâNOVA Officer-Private network architecture and integrated dialing tables in all gateways enable operation without a gatekeeper, dramatically reducing network maintenance requirements and improving network robustness by eliminating a single point of failure.

# BOSâNOVA® Claro

## Smart Call

BOSâNOVA Claro gateways employ a smart routing mechanism that automatically routes voice traffic over the IP network and the PSTN. Whenever the IP network supports carrier-grade QoS — a user-defined parameter continuously monitored by BOSâNOVA gateways — the call is placed over the IP network. When BOSâNOVA Claro detects quality below this tolerance level, the call is automatically routed over the PSTN. BOSâNOVA Claro's smart voice traffic routing ensures carrier-grade voice quality and reliability of each call, throughout the call, on a call-by-call basis.

Smart calls are realized entirely without user intervention. Users require no training, since there is no change in user protocol, no change in dialing habit and no change in phone numbers. Dialing across the IP network is precisely the same as dialing via the PBX network, with no special code or discretionary access prefix for IP selection. Users don't need to remember to select IP routing — the gateway does it transparently.

BOSâNOVA Gateways are designed for paramount ease-of-use. For dialing plan flexibility, the gateways support a broad range of numbering plans — private, public, extensive, abbreviated — and allow configuration down to the port level. For flexibility in calling, BOSâNOVA Claro enables discretionary hop-on calls. Through two-stage dialing (with IVR) from the PSTN, a user can call into the gateway (hop-on) and initiate either a VoIP call or a new PSTN call (hop-off).

## Safe Call

As well as carrier-grade voice quality and reliability, BOSâNOVA Claro ensures carrier-grade availability.

In the event of gateway or power failure, there is a physical connection to the PSTN, guaranteeing data network bypass. Emergency and special numbers (999, 911, 411) automatically pass through to the PSTN. No matter what the circumstance, telephony service is guaranteed.

BOSâNOVA Claro is distinguished by its provision of multiple protection levels for unsurpassed security. SSH™ (Secure Shell) server software encryption and proprietary protocols secure against Internet hacking during remote management. Call level and gateway level authentication secure against toll fraud. And an internal firewall secures against hackers. The proprietary Blue Seal Security Lock™ — a mechanical lock on the gateway that controls the internal firewall — on all BOSâNOVA Claro gateways provides a fully secure system, whereby the gateway is completely inaccessible except for VoIP data. BOSâNOVA Gateways uniquely offer voice and signaling encryption, so that even over the public internet, total call privacy is assured.

BOSâNOVA Claro gateways are available in 1U-19" rack mount EI/TI PRI, 4-port and 8-port configurations. A 2-port, small footprint unit is available with added home-office features. All units have numbering plan support compatible with all BOSâNOVA gateways and the BOSâNOVA Connect. BOSâNOVA Claro gateways are interoperable with H.323 and SIP-supported devices.

## The smart move to smart calls



2-port ROBO



4-port



8-port



EI/TI PRI

IP TELEPHONY  
Clear & Simple



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