



Networking Solutions

Unify Your Network, Simply and Cost Effectively

Imagine a single system that does it all using your existing IP network: from voice to data to video. One that combines the advantages of network-based telephony and the features of traditional PBX systems. All while reducing your infrastructure, lowering capital expenditure and operational costs, and increasing productivity.

Toshiba IP business communication system and multi-site networking, enables you to take full advantage of today's most advanced communications applications. Our systems also provide these important benefits:

- Save money by avoiding costly long-distance charges on calls between various locations
- Extend full telephone functionality to remote users via IP telephones connected to your private intranet or the Internet, providing full-featured desk phone capability to all users no matter where they are located
- Reduce costs by transmitting voice calls via the Internet or your private intranet
- Provide one integrated system for all your office locations by networking multiple phone systems to work together as one system
- Share capabilities enterprise-wide, from centralized attendant services, a single voice mail system, and centralized call center operations, to simplified internal extension dialing, and SMDR
- Turn a long-distance call into a local call by "hopping off" the network as needed

Toshiba's a private networking application interconnects Toshiba systems to work as one system. And it delivers a rich set of calling features across multiple Toshiba IP systems throughout your enterprise, such as:

- A rich set of calling features are delivered across multiple systems throughout your enterprise
- Your users benefit from transparent dialing and simple feature operation
- Advanced networking features include Centralized Voice Mail, Centralized Attendant, Network SMDR, and Station DSS button appearances across all nodes
- Alternate Routing provides for toll bypass configurations and automatic recovery from network disruptions

If you need to connect your main office with branch locations and/or remote users, Toshiba has the networking solution.

SPECIFICATIONS

System Compatibility	IPedge® EC, IPedge EM, Strata® CIX™40, CIX100, CIX200, CIX670, CIX1200.
Connection Types	Toshiba systems are interconnected via ISDN or IP. <ul style="list-style-type: none"> ■ DS1 (T1) circuits provide ISDN-type interconnectivity. ■ Provides full connectivity and capabilities over an IP network (VPN WAN, Internet, intranet, frame relay, fiber, or wireless).
Maximum Nodes	Up to 128 nodes can be accommodated within the unified numbering plan. Up to four nodes connected in tandem can give satisfactory performance with regard to latency. As with any network design, transport delay, speech volume and other issues must be carefully considered.
Coordinated Numbering	Users can call each other across network nodes with simple network directory numbers. This eliminates the user's need for access codes and network maps. Calls that encounter a busy or unanswered destination can be forwarded to any node in the network, including a centralized voice mail system or attendant.
Alternative Routing	Each system can be programmed for thousands of routing patterns. This allows the creation of networks in which calls can be automatically re-routed around network disruptions. Centralized facilities and features can continue to work and users will be unaware of problems while they are being repaired. Alternate Routing also permits Toll bypass to deliver a public call from a point in the network where toll charges are minimized. Such a scheme is known as "Hop Off" for the ability of the private network to determine the point at which the call will hop off to the public network.
Centralized Attendant	One attendant can serve an entire multi-site configuration. Station users only need to dial "0" to reach the centralized attendant regardless of the node in which they reside. The attendant can reach any station in the network using its Network Directory Number. Trunks attached to any network node can be programmed to terminate to the centralized attendant and their source and calling party information will be delivered to the attendant's display. The busy/idle status of stations from remote nodes can appear on the centralized Attendant Console.
Centralized Voice Mail	A Toshiba Strategy® voice mail system attached to any Strata CIX network node can serve users throughout the enterprise. Unanswered calls will be forwarded to the voice mail, the source and calling conditions identified and the appropriate voice mailbox greeting will be played. The voice mail system can control message waiting indications throughout the network as messages are left and retrieved. A single network can even support multiple centralized voice mail systems with each station being programmed for the appropriate system. Record to voice mail and voice mail soft keys are available across all network nodes from a single Strategy voice mail system.
Centralized Network SMDR	An external call will generate a call record at the terminating node for that call. Call Accounting software on a single server can receive SMDR call data from each node via TCP/IP on the network. Users with third party Call Accounting client software can retrieve reports from the server from any location.
Distributed Network SMDR	An external call will generate a call record at the terminating node for that call. Transit nodes will not generate records. The records can be stored in customer-supplied external buffers at each node. Third party polling call accounting software can gather and organize the data from multiple nodes. Local buffering provides survivability in the event of network disruption.
Alarm Notification	Strata CIX eMonitor can monitor alarm conditions from multiple CIX systems over a WAN or the Internet from any location via SNMP traps sent over TCP/IP. Traffic reports can be sent from Strata CIX systems to remote locations over a WAN or the Internet from any Strata CIX location.
Network DSS/BLF	Telephone DSS buttons can appear across the Strata Net network. This enables a user's DSS button to function in all nodes in a CIX network. The DSS function works within or across a network.

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