Panasonic KX-TDA

Today's corporate offices are IP network centric environments where almost everything is connected on an IP network. The KX-TDA Hybrid IP PBX is also part of the office IP network by supporting VoIP Telephone Extensions, VoIP Trunks and Remote IP Maintenance.

VoIP Telephone Extensions (Application: Remote Worker)

IP Phones - together with virtually ever-present broadband internet access and affordable IP VPN routers are a compelling way for companies to offer Remote Employees access to corporate voice services. As companies require more flexibility in order to meet the need of providing corporate voice communication to the growing number of Remote / Home workers, the challenge is to integrate all remote employees with seamless access back into the central business telephony systems.

The KX-NT136 IP Phone shown above provides easy access to the TDA Hybrid IP PBX's feature rich capabilities - regardless of user location. It supports Power-over-Ethernet (PoE) and requires IP-EXT16 Option card (Part #: KX-TDA0470). With 6-line LCD display, it looks and works almost like standard system phones reducing the need for any relearning by end-users.

The NT-136 IP phones use standard Ethernet network cables - reducing cost of deployment. Employee moves within the enterprise network are easy as it simply requires unplugging the phone from one LAN location and plugging it back at a different location with virtually zero programming.

The product facilitates Quality of Service (QoS) by supporting VLAN tagging (802.1p/Q) to enable dedicated bandwidth to handle voice traffic. Further, it supports various voice compression codecs allowing customers to maximise their IP network bandwidth resources.

An IP VPN tunnel is recommended as it can ensure that voice speech is secure and encrypted removing any chances of any eavesdropping as the voice packets travel over the Internet.

Panasonic will shortly enhance its IP terminal range with entry level model KX-NT265 and IP soft-phone which allow remote employees to work more efficiently and maximise their productivity.
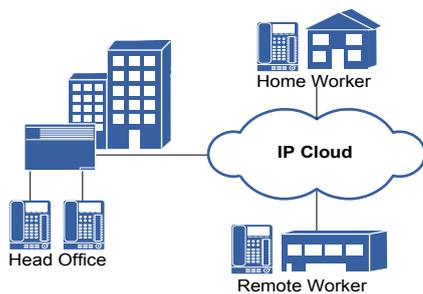
VOIP Trunks (Application: IP Networking / Branch Solutions)

As companies move away from large central headquarters to geographically distributed efficient business units, there is a growing need for companies to leverage their existing managed high speed IP network by deploying voice applications on top of their corporate network and bypassing the PSTN and its associated high cost. The Panasonic KX-TDA VoIP Trunks (i.e. IP Gateways) are a perfect solution to this growing need and help businesses reduce telephony cost via convergence.

The IP networked TDA PBXs support both open and close numbering plan creating a virtual single PBX allowing employees from across all the branch sites to easily communicate with each other. Customer calls can be easily transferred across sites seamlessly with full call details of the outside party as full QSIG standard is supported across the VOIP trunks.

Utilizing industry standard H.323 VoIP protocol, the VoIP Trunks support G.711, G.729 & G.723.1 audio codecs allowing for various voice compression rates to help maximise existing IP network bandwidth. Quality of Service (QoS) is supported via ToS bit or DiffServ settings.

Panasonic VoIP trunks empower businesses to build a flexible distributed IP telephony solution to cater for their exact telephony needs.

VoIP Trunks for Branch Networking

PBX	IP Gateway Option Cards	Channel	Configuration
TDA15/30	KX-TDA3480	4	Web Based
TDA100/200/600	KX-TDA0484	4	Web Based
TDA100/200/600	KX-TDA0490	16	Web Based

IP Solutions

A Path To Pure IP-PBX

This year Panasonic will launch its Pure IP PBX KX-TDE to support those customers who need a Pure IP solution.

Recognising that not all customers need a Pure IP solution today, Panasonic has a unique evolutionary concept allowing customers to upgrade to Pure IP PBX at a time of their choosing.

This protects the customers' investment and removes confusion when buying a communication system today. By simply replacing the existing CPU card with a new IP CPU card the system is upgraded to a Pure IP PBX. Even existing resources (cards, options and terminals) work with the new IP CPU.

IP Interface (Application: Remote Administration over IP)

The Panasonic KX-TDA PBX's together with ubiquitous IP network, affordable Broadband Internet access, and low-cost IP VPN routers - are a compelling way for Dealers, Installers, & IT administrators to perform remote administration of the PBX - regardless of their geographical location.

The KX-TDA 100/200/600 Hybrid IP PBXs can all be connected to corporate IP networks via the optional CTI link card (Part #: KX-TDA0410). Once accessible over an IP network, the PBX can be accessed within corporate Local Area Network (LAN), across managed Wide Area Network (WAN), or even across the internet.

Pure IP and Unique migration concept from telecom to Pure IP
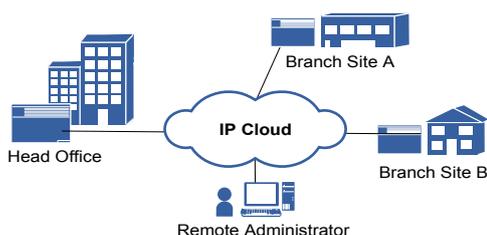
The optional CTI link card has a 10 Mbps LAN interface that can be connected to any standard 10/100 Mbps data switch. Once connected, system administrators can connect to any of the multiple TDA systems connected on their corporate data network and program, configure and manage the systems remotely. As an example administrators from corporate headquarters can remotely program all PBX from a central location. Further, once properly configured, administrators can even use the internet to access and remotely manage a TDA PBX from anywhere in the world.
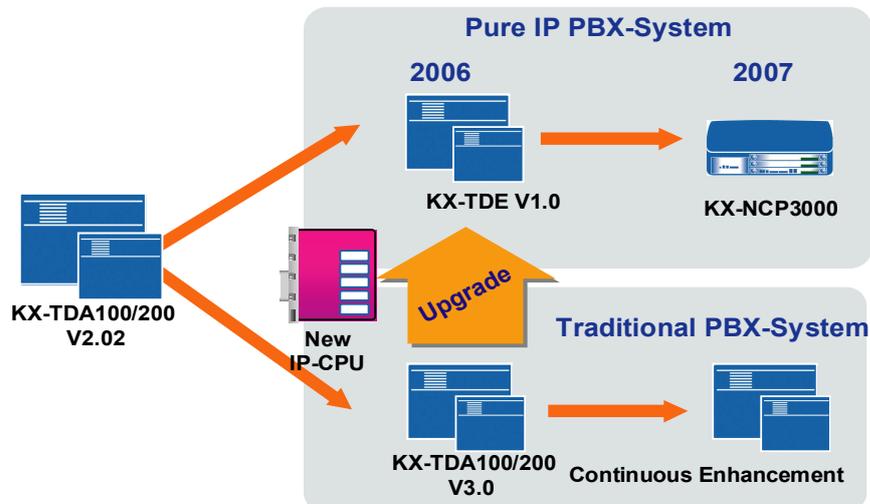
Note:
It should be noted that since Internet is an unmanaged IP network - in order to ensure that the data and voice communication over Internet is reliable as well as secure - an IP Virtual Private Network (IP VPN) must be established over Business grade Broadband Internet access.

Panasonic