

APPLICATION NOTE - 12

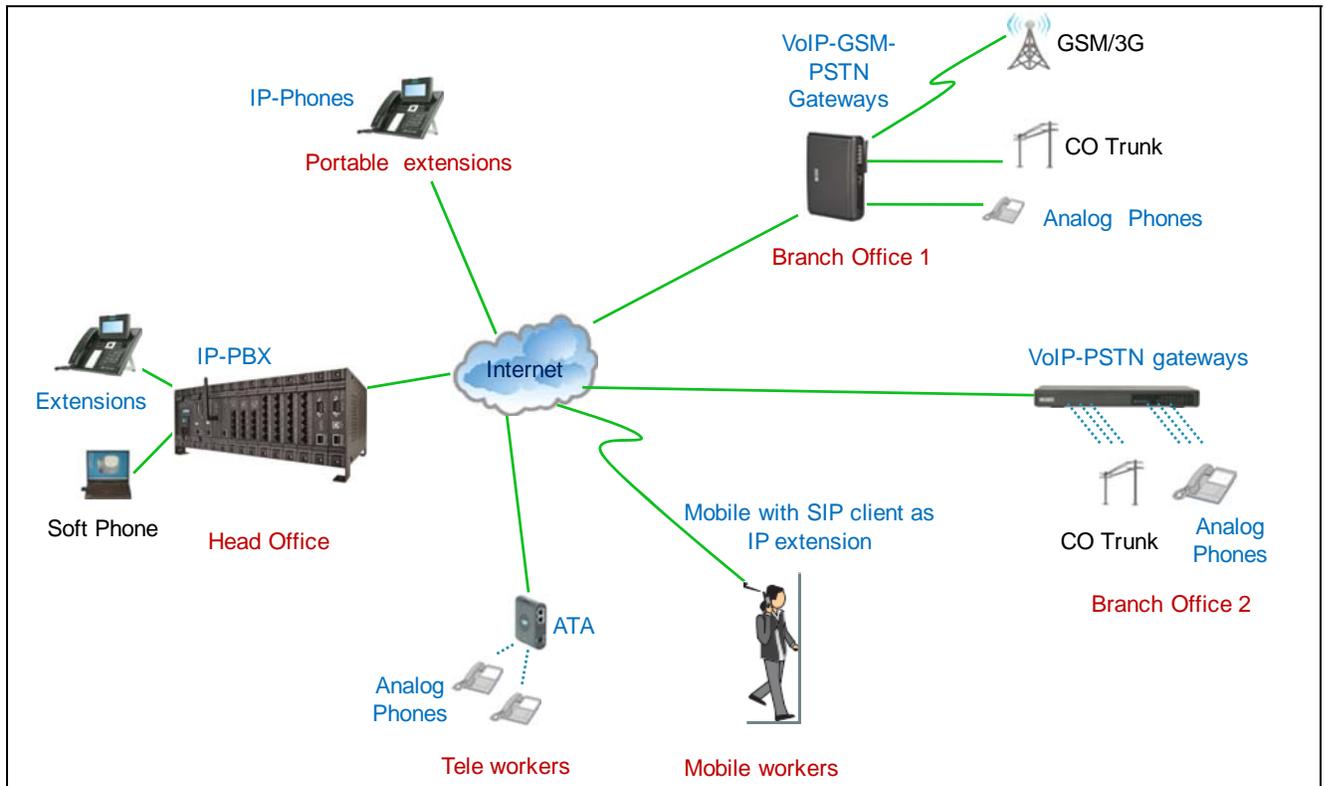
Application: Complete IP Solution

Case Study:

Organizations are mapping a global footprint and so are their communication needs. They tend to have multi-site office branches to establish stronger regional footprints. The ratio of tele and field workers is increasing in parallel.

Again while talking of geographically dispersed branches; the operational needs differ as per the size and location of branch office. A head office may require higher system configuration, multiple network connectivity while at a branch office few extensions and connectivity to the corporate head office may suffice.

Coming to field Employees, the major challenge for them is to stay connected with other co-workers, while on the move.



The Complete IP Solution:

Head Office with Matrix IP-PBX:

As shown in above application, Matrix ETERNITY (Converged IP-PBX) is located at the head office. The IP-PBX can support up to 1000 dispersed IP users and offers connectivity to GSM/3G, ISDN BRI/PRI and PSTN networks. The converged exchange supports Analog, Digital, Mobile and IP extensions. The IP users of ETERNITY are distributed amongst the various remote branch locations.

Branch Office with Matrix VoIP-GSM-PSTN Gateway:

Matrix SETU VGFX is a compact single-box solution for VoIP-GSM/3G-FXO-FXS connectivity. Available in three different models the gateway can support up to 8 simultaneous VoIP channels, up to four GSM/3G channels and up to four FXO/FXS. This configuration matches the need of small branch offices. To connect these remote workers to those at the head office the gateway registers itself as one of the users of Matrix ETERNITY. The remote branch workers and those at the head office can now communicate over the cost-effective IP network.

Branch Office with Matrix VoIP-PSTN Gateway:

Matrix SETU VFXTX is a highly flexible VoIP gateway, available in ten different configurations to tailor varied requirements. The gateway in its maximum configurations scales up to 32 IP channels, 32 FXO (trunk line) and 32 analog extensions. There is no need to invest in a new PBX system; the gateway itself suffices mid-sized organization requirements. Matrix ETERNITY recognizes SETU VFXTX also as one of its remote IP user and maintains IP connectivity between the two locations.

Tele Workers with Matrix Analog Telephone Adaptors:

Tele workers operating from home can select a product from Matrix's wide basket of Adaptors. The multi-port adaptors besides allowing analog extension to communicate over IP, it offers connectivity to PSTN and GSM networks also. The PC connectivity allows a user to talk and surf simultaneously. The Matrix adaptor can bring all the facilities and resources of corporate head office to one's home. It simply registers as an IP extension to the corporate PBX. Thus, though operating from home a tele worker has access to all facilities and resources at the head office.

Mobile Workers with Matrix ETERNITY IP Extension:

Imagine the flexibility of field workers if they can use their mobile phones to function as desk phone and utilize the resources of office PBX such as PBX trunks lines to make outgoing calls, receive calls with the same identity of desk phone, share voice mail box. All this is possible with Matrix ETERNITY IP extensions. Matrix ETERNITY transforms mobile phone of a field worker as an IP extension with

SIP client installed on it. The mobile worker now carries his office extension number and features with him.

Portable IP Extensions of Matrix ETERNITY IP-PBX:

Whether an IP-Phone or a SIP soft phone, the distance at which it is from the IP-PBX makes no difference. The extension only needs to register itself with Matrix ETERNITY and the extension user can enjoy all the functionalities and access all resources of the system. He can communicate with all and any of the ETERNITY users over the IP network.

Benefits:

- Rich product portfolio to make an absolute solution
- Indigenously designed products with exhaustive feature set
- Open-standard SIP protocol support enhancing interoperability
- Products in flexible configurations to tailor exactly to customer needs
- Extended Support
- Warranty Products

Matrix VoIP Product Range:

ETERNITY IP-PBX	The IP-PBX with Universal Connectivity and Seamless Mobility
SAPEX	All-in-One Embedded IP-PBX Server
VYOM CCX	High-Density SIP Gateway
ETERNITY	The Universal Telephony Gateway
SETU VGFX	Multi-Port SIP based VoIP to GSM-FXO-FXS Gateway
SETU VFXTH	Multi-Port SIP based VoIP to FXO-FXS Gateway
SETU VFX	Multi-Port SIP based VoIP to FXS Gateway
SETU ATA211G	SIP based Analog Telephone Adaptor with 1 FXS, 1 GSM and 2 Ethernet Ports
SETU ATA211	SIP based Analog Telephone Adaptor with 1 FXO, 1 FXS and 2 Ethernet Ports
SETU ATA2S	SIP based Analog Telephone Adaptor with 2 FXS Ports and 2 Ethernet Ports
SETU ATA1S	SIP based Analog Telephone Adaptor with 1 FXS Port and 2 Ethernet Ports
SETU VP248PE	The High-Definition IP-Phone with 6 Lines x 24 Characters LCD Display and PoE
SETU VP248SE	The High-Definition IP-Phone with 2 Lines x 24 Characters LCD Display and PoE
SETU VP248P	The High-Definition IP-Phone with 6 Lines x 24 Characters LCD Display
SETU VP248S	The High-Definition IP-Phone with 2 Lines x 24 Characters LCD Display

Release	10 th September, 2010
Product Name	Matrix VoIP Range