

Initia Secure Video Conferencing

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In the ever changing world climate today, many DOD and Civillian agencies are realizing the necessity for immediate, cost effective communications that will provide the security necessary for today's times. Many of these agencies including Homeland Security are reexamining to Video Conferencing to meet these needs. Video conferencing enables these users to conduct business, training, and data sharing in real time from various locations where they are most comfortable.

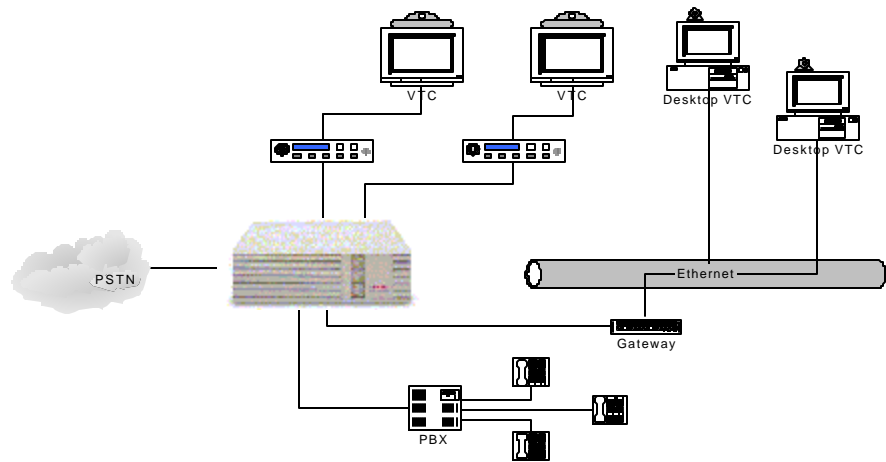
Many of these government agencies have existing Video Conferencing equipment in place. This equipment varies from older ISDN based systems to newer dual network systems that operate over ISDN or IP. Many times these systems are individually connected to the public switched network, FTS network, or to private inter-agency networks. These agencies are finding themselves in need of consolidating and securing these systems.

The typical Video Conferencing infrastructure often consists of ISDN based systems scattered throughout the agency. Many of these systems are seldom used due to the perceived high cost of usage, the difficulty of communicating with newer systems designed to operate over the Local Area Network, and the lack of support. As a decreasing number of vendors seem to be moving away from ISDN, there are fewer options for the expansion and upgrade of these existing networks.

Why ISDN over IP?

As agencies look to the future of their video Conferencing networks, it may seem as if IP is the best option. An overwhelming availability of IP conferencing systems coupled with the low cost of communications over the public network, and essentially free communications over the intranet, make IP based conferencing the logical path for network expansion and growth.

Given the inherent security risks and Quality of Service issues involved in conferencing over the public network, private networking is the only option for secure conferencing, with quality of service, over IP. However the private networking option is a costly one. The cost of the dedicated lines required for secure IP conferencing make it one of most expensive options as the lines will remain idle more



often than they are used.

Enter ISDN. ISDN has been the primary transport method for Video Conferencing worldwide for many years. The worldwide availability of ISDN virtually assures that connections can be made to anyone, anywhere, anytime. Guaranteed bandwidth, and the inherent quality of service make ISDN ideal for today's Video Conferencing needs. ISDN based Video Conferencing systems when deployed with Government approved encryption devices offer unsurpassed security for sensitive information. By networking the existing ISDN equipment, network costs can be lessened due to the reduction in the number of connections required to the Wide Area Network.

Initia AccessSwitches

In today's fast-paced world of global commerce, flawless communication is critical to success. The Initia Networks family of wide area networking solutions offers a comprehensive suite of products that help you evolve your network to global proportions without sacrificing your existing investment. The Initia AccessSwitch is a high-capacity, high-performance network access and switching system available in several expandable and nonexpandable models. The AccessSwitch family is priced to suit the needs and budgets of varying sizes of multiservice networks for video, data, and voice applications.

Often the largest expense connected

to videoconferencing is not the equipment but the phone charges incurred with each video call. The Initia AccessSwitch family of products is designed to help organizations, large and small, take full advantage of the benefits of videoconferencing while lowering total cost of ownership. Initia's family of WAN Access devices control access charges through intelligent network design. They allow the aggregation of video, voice and data telecommunications traffic over a single ISDN or T1 circuit and direct traffic over the least expensive route to the public network.

Powerful Software Control

Initia AccessWare,™ the AccessSwitch's powerful operating system and network management software, enables the AccessSwitch's unique architecture to deliver reliable, scalable, and highly available solutions for wide area networks, while setting a new standard in price performance for enterprise-wide networking and corporate communications centers. AccessWare permits the AccessSwitch to mix and match interfaces and integral multi-point videoconference control units (MCU). AccessWare provides full port and network switching for all connections, and also permits support for 80 blocking or 44 non-blocking T1s on the AccessSwitch and up to 72 channels of high-speed inverse multiplexed ports. Through AccessWare's exten-



sive dial plan and call handling capability, it allows flexible network access to switched and dedicated networks, while offering a wide range of protocol and service conversions. This allows network connections to be established on a call-by-call basis over the most economical routes. AccessWare network management enables control and provisioning of networking resources, alarm collection, troubleshooting, and problem resolution. AccessWare also collects call detail records for departmental billing.

Reliable, Scalable Systems

The AccessSwitch family of slotted hubs are chassis-based systems that accept plug-in modules for expansion. Modules include digital network interface modules for T1, ISDN Primary Rate, and E1 Primary Rate; high-speed synchronous data modules with or without inverse multiplexing; ISDN Basic Rate interface modules; and MCU. The AccessSwitch modular, hot-insertable module/ backplane system allows users to tailor each configuration according to application and bandwidth requirements without down time or service interruption. The AccessSwitch architecture has several levels of redundancy making it self-healing and able to prevent single points of failure in the network. Because AccessWare software supports the most globally dominant network protocols, such as ISDN1, Euro ISDN, 4ESS, 5ESS, DMS100, and DMS250, the AccessSwitch demonstrates its self-healing nature transparently each day through route and reroute diversity, carrier and POP diversity, and access diversity. Through AccessWare's call handling capability, the AccessSwitch slotted hubs can split and/or crisscross loads with another AccessSwitch simultaneously, and between different carriers. This capability provides the highest successful call completion grade of service in the industry. AccessSwitch slotted hub hardware supports multiple integral multipoint controller (MCU) modules, load sharing trunk modules, and load sharing, hot swappable power supplies. The combination of power, flexibility, and reliability make the AccessSwitch the best choice for a wide area networking platform.

Network Management

Initia provides comprehensive network management for its family of video networking solutions. Important network management features include:

- Centralized or distributed, local or remote
- Easy to use PC-based Microsoft Windows application interface to AccessWare system software
- Equipment provisioning: profiles, slots, clocks, lines, MCU, dial plan/routing, dial prefix, directory numbers, pooled directory numbers, trunk groups, service names, min/max criteria
- Time-of-day provisioning: Bandwidth reservations
- Bandwidth use monitor: current or historical traffic, statistics, multiple trunk groups, min/max parameters
- Integrated protocol and trace analyzer: logging, display, set timers, ANI tables, enable/disable, suspend/resume, Q.931/Q.921 trace, H.320 trace, T1 error statistics, loopbacks
- Alarms: collect, filter, thresholds, display, active/historical, automatic/manual polling, color status
- Call event recording: event stream, call detail recording
- Remote software upgrade downloading

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