

# Video Conferencing

DC-Net provides state-of-the-art, city-wide video conferencing products and services. Leveraging the District's fiber optic core infrastructure, DC-Net's video conferencing applications are customized for government needs and provide a fully interoperable, secure, and cost effective alternative to video conferencing systems sold by commercial vendors.

## Applications

- Video presence at schools and universities, distance learning
- Public safety communication – via ruggedized units
- E-Concierge and public kiosks
- Video courtroom, prisoner arraignment, and video visitation
- Telemedicine and health training applications
- Intra- and inter-agency meetings and team collaboration



## Options

- **Desktop and Road Warrior** – Personal video conferencing product suites designed for single user experience. Select from leading HD desktop sets, video phones, soft clients, or specialized endpoints for public, secure, and other custom environments.
- **Conference Room Solutions** – From collaboration to large scale conference or training rooms. Options include full immersive Telepresence and HD.
- **Customized Solutions** – Custom designed solutions on an individual case basis (ICB) include: leasing options, professional services, and specialized integration.

## Managed Services

DC-Net provides an array of optional services to manage your video conferencing experience:

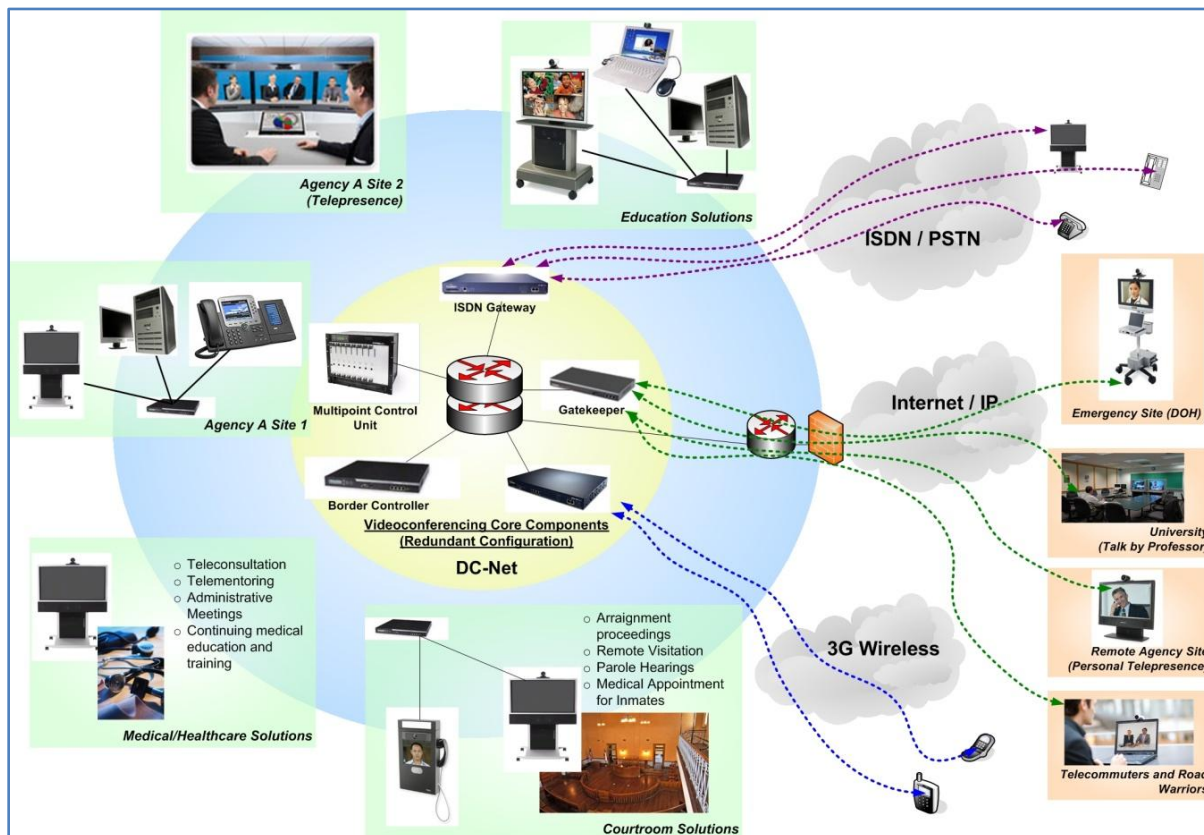
- Support for spontaneous point-to-point or multipoint video conferencing without a reservation
- Interoperability – Support for different endpoint types
- Installation and maintenance support for customer-owned video conferencing system from approved vendors
- Per-use access to shared video conferencing facilities
- ISDN (H.320) support for off-network conferencing
- Leased and rental endpoints on hourly and monthly basis
- Consistent monitoring and maintenance of endpoints, infrastructure, and network
- Global scheduling of video conferencing resources and streamlined help desk process
- Additional centralized services – Language translation and interpretation, accessibility for people with disabilities

## Architecture

- Standards-based – allows any-to-any interoperability from different endpoints
- Best of breed equipment in core
  - Leverages existing DC-Net backbone infrastructure, voice IP PBXs, and IP MPLS L3 VPN architecture
  - Scalable, easy to expand core components
  - Secured system, able to traverse firewalls
- Integrated scheduling
- Supports collaboration, H.239, and is SIP compliant
- Highly reliable network with guaranteed Quality of Experience and Quality of Service audio/video metrics
- Supports HD video and audio
- Customizable product offerings meet the specific needs of individual agencies

Figure 1 shows a range of video conferencing applications over the DC-Net backbone network and managed by the core components. Users outside the network can connect over the Internet and through ISDN/PSTN endpoints. 3G wireless connectivity is planned for future deployment.

Figure 1: DC-Net Video Conferencing Architecture



For more information about video conferencing products and services, contact Tige Johnson, DC-Net Business Unit Director at 202-715-3775. Visit DC-Net online at: [www.dcnets.in.dc.gov](http://www.dcnets.in.dc.gov)