

InterLink

Multimedia Communications Interoperability and Real-Time Situational Awareness



**InterLink • 10425 Cogdill Road • Suite 450 • Knoxville, Tennessee • 37932 • USA
Phone: 865-671-4474 • Fax: 865-671-3533 • email: sales@interlinkcorp.com**



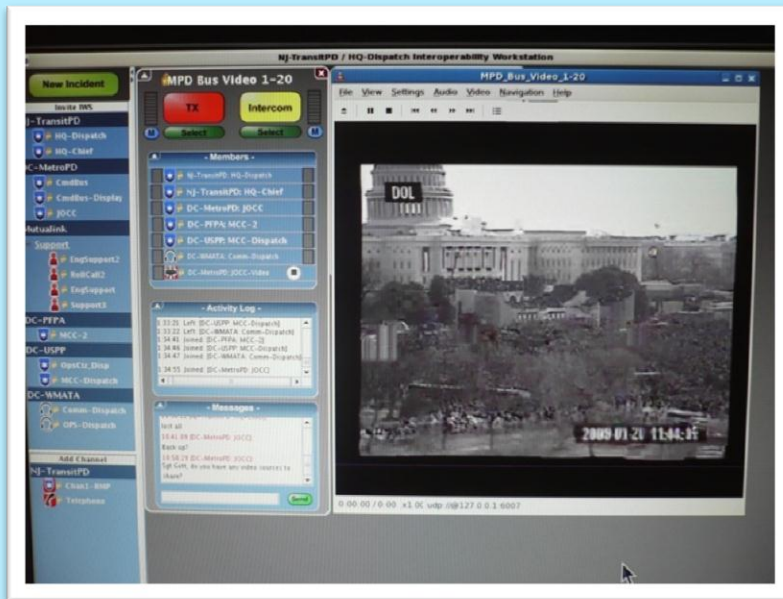
InterLink Overview



- **National and International Presence**
- **Distributors in:**
 - **Canada**
 - **Latin America**
 - **Europe, Middle East, and Africa**
 - **Asia**
- **Decades of Experience in Mission Critical Environments**
- **24 x 7 x 365 Support**
- **Software Integration**

Events

Inauguration 2009



Collaboration

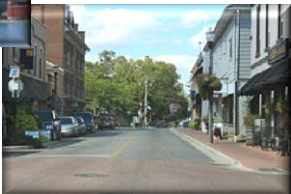
- DC Metro Police
- United States Park Police
- Washington Metro Area Transit Authority
- Pentagon Force Protection Agency
- New Jersey Transit Police

CWID



- Deployed at four U.S. military sites and fusion centers, connected with warfighters in Afghanistan, demonstrating Homeland Defense/Homeland Security Cross-Over
- Performed 75 events over the 9-day trial period participating in 9 scenario vignettes
- Warfighters overwhelmingly agreed the capabilities Mutualink demonstrated in CWID surpass any current systems they have used

The Challenge



All types of communication equipment exists and interoperability is becoming more prevalent. But...

- Even when everyone involved has equipment, they often can't communicate with each other
- If they can communicate, they often don't due to political and regulatory obstacles
- If they are communicating with each other, modes of communication are cumbersome and separate resulting in a lack of situational awareness

The Solution

A Safety Initiative That Provides Multimedia Interoperability for Community-Wide Collaboration

Build a communications bridge to:

- Leverage your existing equipment to create a comprehensive regional and international real-time communications and information collaboration platform.
 - Voice: LMR radios, VoIP “push-to-talk”, telephone, cellular & cellular PTT, through-the-earth
 - Video: live feeds from buildings, streets, cruisers, copters
 - Text Messaging: more effective than voice for informational content
 - File Sharing: blue prints, floor plans, photos, procedures
 - PA System Interface: Broadcast Emergency Messages
 - Dispatch Collaboration: off-the-air conferencing between dispatch centers,
- Allow each entity to retain sovereign control of its resources.
- Handle day-to-day coordination of activities as well as wide-scale emergencies of any scope.



Collaboration and Cooperation

At the core of this safety initiative is multimedia interoperable communications and information collaboration

Creates, in an instant, a communication network on an invitation and as-needed basis,

- **Bridges first responders, emergency management and support agencies and CIKR, creating a powerful “always on, always ready” ad-hoc dynamic environment,**
- **Significantly improves real-time situational awareness and streamlines communication,**
- **Creates a fine-tuned community during normal operations, and a resilient one with scalable emergency preparedness response and coordination capabilities in the event of an emergency.**





Benefits

- **Peer-to-Peer Architecture: No single point of failure**
- **Network Agnostic: IP based and uses broadband connectivity (e.g., DSL, Cable, T-1s, Wireless 3G/4G, WiFi, Satellite, etc.)**
- **On-the-Fly Adaptability: Communication session participants can be added or dropped as needed**
- **Intuitive and Easy to Use: Low training requirement, accessible and usable at all skill levels**
- **Plug-and-Play Structure: Eliminates complex, time consuming and expensive configurations**
- **MNET**



MNET

This unprecedented level of interoperability over secure Internet is made possible by MNET. It is the “information highway” over which your data travels.

- **AES-256 Encrypted VPN tunnel**
- **Ability to see others and be seen by others on the network**
- **All software upgrades**
- **Network notifications and hardware health monitoring**
- **Auto-discovery**
- **Roll-call/exercise support**
- **Equipment replacement in the event of a hardware issue**



Security

- **Control communications between all endpoints are encrypted and mutually authenticated using standards-based public-key cryptography**
- **All media communications (voice, video, files, messages) are encrypted using the highly-secure AES cipher, thereby preventing unauthorized access to any incident traffic**
- **Secure IPSEC tunnels may be used to place endpoints behind existing firewalls**
- **Endpoints may be segregated from existing LANs by using any combination of:**
 - **Separate physical LANs or virtual LANs (VLANs)**
 - **IPSEC/GRE tunnels between various locations**

Video Interoperability

Instantly routes **STREAMING VIDEO** from any source to any viewer:



Graphic User Interface

High School / Security Interoperability Workstation

New Incident

All IWSs IWS Lists

- AR-LittleRock-AWINHQ
- AR-NLittleRock-ADEM
- Mutualink
- RollCall2
- Support
- EngSupport
- Support1
- NJ-AtlanticCityHS
- NJ-AtlanticCityPD
- NJ-AtlanticCityEOC
- NJ-BayonneHosp
- NJ-Belleville-ClaraMaassMed
- NJ-EOrange-GeneralHosp
- NJ-EnglewoodHosp
- NJ-Hackensack-MICCOM
- NJ-Hackensack-UnivMedCtr
- NJ-HobokenUnivMedCtr
- NJ-HudsonCoSheriff
- NJ-JerseyCity-ChristHosp
- NJ-JerseyCityMed
- NJ-JerseyCityDEM
- NJ-LyndhurstPD
- NJ-Montclair-MountainsideHosp
- NJ-NBergen-PalisadesMedCtr
- NJ-Newark-BethIsraelMed
- NJ-Newark-UMDNJ-REMCS
- NJ-Newark-UniversityHosp
- NJ-NewarkArena
- NJ-NewarkDeptHealth
- AR-NLittleRock-TX-VISA

School Intruder

TX Intercom

Select Select

Members

- HighSchool Security
- NJ-Atlantic City: Dispatch
- NJ-Lyndhurst: Dispatch
- HighSchool LobbyVideo

Activity Log

- 09:42:22 Joined: HighSchool: Security
- 09:42:31 Invited: Emailville: Dispatch
- 09:42:33 Invited: Metropolitan: Dispatch
- 09:42:36 Invited: HighSchool: LobbyVideo
- 09:42:36 Accepted: HighSchool: LobbyVideo
- 09:42:36 Invited: HighSchool: LobbyVideo
- 09:42:36 Accepted: HighSchool: LobbyVideo
- 09:42:46 Accepted: Metropolitan: Dispatch

Messages

- 09:50:47 HighSchool: Security
- Intruder is in main lobby
- 09:50:58 Emailville: Dispatch
- swat team on the way
- 09:51:00 HighSchool: Security
- starting live video feed now

Shared Files

School Layout

High School

Server: localhost 12-Mar-2010 12:00 PM

CA-SanFrancisco-FRB / Dispatch Interoperability Workstation

New Incident

All IWSs IWS Lists

- CA-SacramentoDEA
- CA-SanFrancisco-FRB
- CA-SanFrancisco-NCRIC
- CA-SanFrancisco-PD
- CA-SanFranciscoDEA
- CA-SanMateoCo_DOC
- CA-SanMateoCo_OES
- CT-Marlborough-ETC
- CT-RE-Lab
- CWID-Hanscom
- CWID-MEU
- CWID_Boston_BRIC
- CWID_NEWARK_NJIT
- Factory
- GA-Janus
- LAB-2
- LAB-3
- MA-Lowell-MBTA
- MA-LowellGeneral
- MA-MEMA
- MA-StatePolice
- MA-WestfordFire
- MA-WestfordHS
- MA-WestfordPD
- Mutualink
- NJ-Eatontown-CACI
- NY-Brooklyn-Demo-NGC1
- NY-Brooklyn-Demo-NGC2
- US-NG_IFHQ
- Unit2
- Wallingfor-Fire

Person of Interest

TX Intercom

Select Select

Members

- FRB: Dispatch
- FRB: Emergency_Phone
- FRB: Tactical_Radio_Net
- PD: Command

Narco Terrorist

TX Intercom

Select Select

Members

- FRB: Dispatch
- PD: Command

Bomb Threat

TX Intercom

Select Select

Members

- FRB: Dispatch
- SacramentoDEA: FieldOffice
- PD: Command
- SanFranciscoDEA: Division

Activity Log

Messages

Shared Files

Bomb Squad Robot

File Edit View Image Go Help

Server: localhost 18-May-2011 11:29 AM

Users

A comprehensive national real-time communications and information collaboration platform, spanning all agencies and critical infrastructure, creating national resiliency, leveraging information exchange and coordinated action.



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[Banking and Finance](#)



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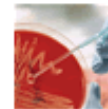
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[Information Technology](#)



[National Monuments and Icons](#)



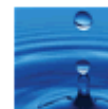
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[Postal and Shipping](#)



[Transportation Systems](#)



[Water](#)



Value Proposition

Save Money

- Lower Cost of Acquisition and Life Cycle Ownership
- Shares Resources to Reduce Overhead

Save Time

- Accelerates Emergency Collaboration
- Leverages Mutual Aid

Save Lives

- Dramatically Improves Situational Awareness for Agencies, Corporations, Security Personnel, and First Responders



Contact Us

InterLink

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Phone 865-671-4474, Fax 865-671-3533

sales@interlinkcorp.com

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