

# Emcom Systems

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**Communications Design**

## Application Brief: Sound Transit, Seattle Light Rail Link

Emcom Systems has provided its EmVista Central System to implement the specified ICC (Integrated Communication Controller) and has supplied its IP6000 and IP6030 IP phones as the emergency communications endpoints. The system utilizes end-to-end VoIP communications and Emcom System has provided endpoint connections to the radio system, to the PSTN and to Cisco Call Manager as well as an Agent Station screen interface to the GEisys PA/VMS system.

All of the disparate voice streams are presented at Agent Stations for call monitoring and/or management. Calls to these endpoint devices are made either by clicking on an Agent Station screen object or by dragging and dropping the screen object onto an active call screen area. Incoming calls are immediately presented at all Agent Stations and may be answered by one agent or shared between agents. Connections can be made between radio, phones and PA either by Agent Station management or by access codes from specified endpoints.

The system is extremely resilient with 3 robust servers available to handle communications. There is no performance loss if one server fails and only non-critical services are reduced should a second server fail. In addition, at extremely critical communication areas along the rail link, small EmVista Local servers are used to provide yet another level of redundancy.

The IP6000 IP phones provide patron emergency communication while the IP6030 IP phones provide emergency and maintainer communication along the rail link. Each IP6030 units is co-located with an A400 Speaker/Beacon. The beacon flashes when a call is made to or from a unit and calls to a unit are loudly annunciated by the speaker. In addition, announcements can be made to groups of speakers either directly from any IP6030 unit or from any Agent Workstation.

The setup interface point for the EmVista Central System is an EmVista Maintenance Station. From this station, all of the endpoint devices are managed and entered into the system database. Periodic testing of endpoints and endpoint connections is also performed by the Maintenance Station.

**EmVista**

*Talk to the Future*