

Emergency Dispatch Simulator



System Description

The VAST Emergency Dispatch Simulator (EDS) utilizes the latest in Voice Over Internet Protocol (VOIP) technology to provide a software only communications solution.

The system simulates both full duplex telephone lines as well as Push To Talk (PTT) radio lines. All radio frequencies, communications groups and telephone numbers are user configurable.

Features

- Software only – no specialized hardware required
 - 100+ users on 100MB network
 - Simulate up to 30 radio frequencies
 - User configurable frequencies, groups and telephone numbers
 - Simulate up to 30 telephone lines
 - 5 Category pages
 - Multiple user interfaces available
 - Graphical PTT button
 - USB PTT foot switch available
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- Uses Standard PC microphone headset or CB style hand held microphone
 - Software Gatekeeper – allows multiple independent communications groups on common network
 - Remote startup and shutdown of client positions
 - Touch screen or mouse operation.



Minimum Requirements:

- Intel Pentium IV PC
- 15" monitor
- Windows 2000/XP® (Home or Pro)
- Any sound card that supports full duplex audio
- Low-noise stereo headset or microphone and speakers.
- 100MB Network
- 512MB RAM
- 60MB Free HD space
- DirectX 8.1

Performance

The maximum possible number of positions is limited by the user transmission rate and the Network bandwidth. For a 100MB network, with the "worst-case" scenario of each position transmitting continuously over both the Radio and Intercom [each sending

1040 bytes/sec of data] the network usage is calculated with network overheads of ~30% as:

- 0.044% of bandwidth transmitted and also re-received at a position; plus
- 0.022% of bandwidth received from each other position.

Thus 100 positions will utilize ~2.2% (101×0.022) of the network bandwidth in the "worst-case" scenario.

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