WAVES AtHoc Interface for integrated mass notification

Description

The WAVES AtHoc Interface provides interoperability between the WAVES wide-area and in-building Mass Notification Systems (MNS) and AtHoc's Distributed Recipient MNS, AtHoc Alert, which distributes messages to computers, phones (cell, landline, VoIP), social media, and digital display signs. This integration allows operators to send text to speech messages and audio files from AtHoc to WAVES. From AtHoc, operators can also activate pre-defined WAVES scripts. The AtHoc integration enables WAVES to be used in locations that employ secure networks.

The WAVES AtHoc interface (WAVES-API-8022) enables the organization to communicate emergency information. This interoperability allows the AtHoc system to send a message through WAVES to targeted devices or groups of devices on the WAVES network such as High Power Speaker Arrays (HPSAs) and in-building Autonomous Control Units (ACUs).

The AtHoc administrator configures the AtHoc system to send a Common Alerting Protocol (CAP) message to WAVES. WAVES decomposes the CAP message for script information, activation settings, and targeted addresses of WAVES network devices. The script can contain targeted addresses or the CAP message can specify addresses within it.

The WAVES will receive XML-formatted CAP v1.2 messages from AtHoc’s IP Integration Module (IIM) serial interface and deliver XML-formatted CAP messages as responses to the IIM.

Communications from AtHoc to WAVES can be distributed via:

- Activating a pre-defined script (with addresses) in WAVES
- Activating a pre-defined script (without addresses) in WAVES to specified locations
- Sending an embedded audio file to be played at specified locations

In addition, WAVES will communicate its status back to AtHoc.
### Table 1. Requirements and supporting equipment

<table>
<thead>
<tr>
<th>WAVES</th>
<th>WAVES software version</th>
<th>WAVES 10 (WAVES-HD-8100/WAVES-HD-8101 server)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAVES Integrated Base Station</td>
<td>IBS-8432 or IBS-0334-HD (IBS-8431, IBS-0331, and IBS-0332 are compatible if the hard drive is upgraded to the latest version of WAVES 10 software, WAVES-HD-8100-LRU)</td>
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<tr>
<td>WAVES-API-8022</td>
<td>WAVES AtHoc interface kit, which includes an installation USB memory stick, USB/serial adapter, license key, and interface cable</td>
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<tr>
<td>AtHoc (purchased separately from AtHoc)</td>
<td>AtHoc Alert</td>
<td>Versions 7.5, 7.6, 7.7</td>
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<td></td>
<td>IP Integration Module (IIM)</td>
<td>IIM Build Cooper_354</td>
</tr>
</tbody>
</table>

### WAVES AtHoc Integration Diagram

![WAVES AtHoc Integration Diagram](image)

- AtHoc Alert
- AtHoc IIM
- WAVES IBS, WAVES 10 software (WAVES-HD-8101), and WAVES-API-8022
- IP
- HPSA-8100 series (wired & wireless options)

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