



# Product Specification

## Joint Incident Site Communications Capability (JISSC)

*Public Safety Wireless Communications for the 21<sup>st</sup> Century*

	<p>The Rivada Networks Joint Incident Site Communications Capability (JISSC) enables users to restore communications rapidly using a full featured voice, video and data delivered via a satellite backhaul. The JISSC solution maximizes effectiveness by bridging first responder communication systems and delivering high-bandwidth capability anywhere, anytime. It features advanced Cisco and leading edge Commercial Off The Shelf (COTS) components with a simple user interface that allow seamless interoperability between disparate communication mediums (Land Mobile Radio, Cellular, WiFi, Landline, etc.). This ruggedized and portable system allows any unit to quickly and effectively establish a communications "bubble" over an area several miles wide. Further, this system enables the user to establish a private, enterprise communications network on-the-fly which is vital during major disasters, deployed operations and any event which requires discrete and robust communications. National Guard customers have taken delivery of multiple JISSC units which deliver a complete communications headquarters to a disaster area, enabling a true command and control capability.</p>
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<p><b>Standard Features</b></p> <p><b>Capacity</b></p> <ul style="list-style-type: none"> <li>▪ 15 VoIP Phones</li> <li>▪ 15 Laptops</li> <li>▪ 10 Digital Signal Processors</li> <li>▪ XTL 5000 MBITR/ HF/UHF/700/800 MHz</li> <li>▪ 1.2 Meter Ku Band Satellite Dish</li> </ul> <p><b>Setup Time</b></p> <ul style="list-style-type: none"> <li>▪ 1 Hour</li> </ul> <p><b>Spectrum Requirements</b></p> <ul style="list-style-type: none"> <li>▪ Ku Band Satellite Bandwidth</li> </ul> <p><b>Power Requirements</b></p> <ul style="list-style-type: none"> <li>▪ 3 x 7.5 KW Generator</li> </ul> <p><b>Physical Specifications</b></p> <ul style="list-style-type: none"> <li>▪ Weight: 10,000 lbs</li> <li>▪ Size: Fits in an 18 x 15 sq ft tent (provided)</li> <li>▪ Transport: 24 Transit Cases</li> </ul> <p><b>Antenna Configurations</b></p> <ul style="list-style-type: none"> <li>• STI-CO TriBand Antenna (1)</li> <li>• 2 UHF Antennas</li> <li>• 2 VHF Antennas</li> <li>• 2 700/800 MHz Antennas</li> <li>• HF Ladder Antenna</li> <li>• 1 10 meter telescopic mast</li> <li>• 2 12 foot tripod masts</li> </ul>	<p><b>Certifications</b></p> <ul style="list-style-type: none"> <li>▪ Joint Interoperability Test Command (JITC) Certified</li> <li>▪ MIL STD 810F Compliant</li> <li>▪ DISA Compliant/Certified</li> <li>▪ DISA Teleport Configured</li> <li>▪ DIACAP Certified and Accredited</li> <li>▪ 256 AES NSA Type 1 Data Encryption</li> </ul> <p><b>General Equipment</b></p> <ul style="list-style-type: none"> <li>▪ ACU-1000 IP Interoperability Gateway</li> <li>▪ Cisco-based Internal Routing</li> <li>▪ Satellite IP Modem</li> <li>▪ Intelligent Power Supply</li> <li>▪ Antenna Control Unit (ACU)</li> <li>▪ Video Teleconferencing Suite</li> <li>▪ 3 Generators</li> <li>▪ Base-X Command tent</li> <li>▪ Environmental Control Unit</li> <li>▪ 802.11 Wireless Access Portal</li> <li>▪ 20 XTS 5000 Handheld Radios</li> <li>▪ 2 PRC MBITR Radios</li> </ul> <p><b>Training</b></p> <ul style="list-style-type: none"> <li>▪ On-site and CD-ROM</li> </ul>	<p><b>DISN Services Provided</b></p> <ul style="list-style-type: none"> <li>▪ INTERNET</li> <li>▪ NIPRNET (Via Client VPN)</li> <li>▪ PHONES (PSTN/DSN/FAX)</li> <li>▪ WIRELESS 802.11g</li> </ul> <p><b>Concept of Operations (CONOPS)</b></p> <ul style="list-style-type: none"> <li>▪ National Guard Bureau Joint CONUS Communications Support Environment (JCCSE) Concept Of Operations (CONOPS), Jan 05</li> </ul> <p><b>Operational Uses</b></p> <ul style="list-style-type: none"> <li>▪ Public Safety Interoperability</li> <li>▪ Disaster Communications Restoral</li> <li>▪ Infrastructure Independent Emergency Communications</li> <li>▪ Land Mobile Radio Bridge</li> <li>▪ Deployable Command Post</li> <li>▪ Incident Site Communications</li> <li>▪ Reach back to Command Elements</li> <li>▪ Voice Interoperability</li> <li>▪ Mobile, Deployed Communications Node</li> </ul>
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