



SmartPTT – Integrated Voice & Data Dispatch Solution for MOTOTRBO



About Elcomplus



Telecommunication software developer
and Systems integrator



22 years on the market



Over **240** qualified employees



Customers in more than **70** countries

Worldwide Partnership

- Motorola Solutions' **Worldwide Application Partner**
- **SmartPTT is Sold and Supported** by Motorola Solutions



They Trust Us

					 ROSATOM
					
					 Severočeské doly a.s.
			 Aerodrom Nikola Tesla Beograd	 The Chemical Company	

Customer satisfaction is our common goal

- Oil & Gas
- Mining
- Public safety
- Healthcare
- Energy
- Transportation
- Manufacturing
- Municipalities
- Hospitality
- Education





Product Benefits

- All-in-one integrated solution
- Full wireline capability
- Supports all MOTOTRBO topologies
- Unique features
- Motivation for a customer to switch to digital



Sales Support

- Recommendation of the right solutions for your MOTOTRBO system
- Assistance in commercial proposal preparation
- Joint meetings with the key customers
- Protection in tenders



Technical Support

- Available from 2 worldwide offices (18 hours of support daily)
- English, Russian & Spanish
- Assistance in the technical solution preparation
- On-site installation services available
- Guarantee and post guarantee services



Trainings

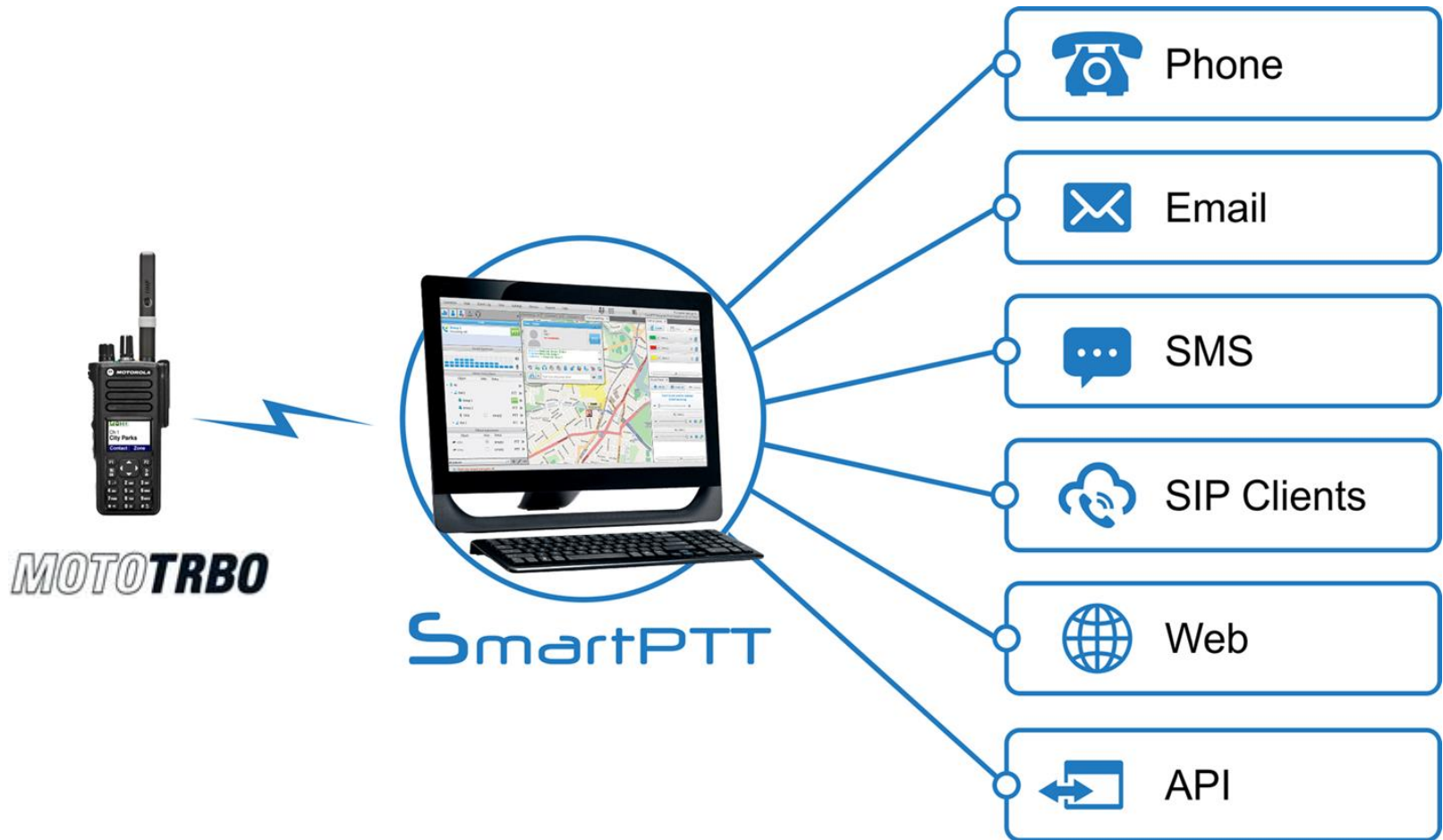
- Technical and sales trainings
- On-site and in Elcomplus offices
- Webinars



Marketing Support

- Presentations
- Case studies
- Events
- Brochures
- Videos
- Webpage for your website

What is SmartPTT



Supported Configurations

SmartPTT is specially designed for efficient dispatch control over MOTOTRBO systems

- Digital and Analog Conventional Systems
- IP Site Connect
- Capacity Plus
- Linked Capacity Plus
- Connect Plus
- Capacity Max



Recommended SmartPTT Solutions

Configuration	Data Only	Voice & Data
Simplex Digital or Analog channels	Enterprise	Enterprise
IP Site Connect	Enterprise	Enterprise or PLUS
Capacity Plus	Enterprise	PLUS
Linked Capacity Plus	Enterprise	PLUS
Connect Plus	Enterprise	PLUS
Capacity Max	PLUS	PLUS



Integrated Solution for MOTOTRBO™

SmartPTT

- ✓ Networks of any size and topology
- ✓ System infrastructure monitoring and control
- ✓ Bridging for different radio networks



STANDARD FEATURES



RADIO
DISPATCH



TEXT
MESSAGES



EVENT
LOGGING



TELEMETRY¹



FLEET
MANAGEMENT



LONE
WORKER



JOB
TICKETING^{1,2}

OPTIONAL FEATURES



GPS
TRACKING



WEB
CLIENT



MONITORING³



VOICE
RECORDING



INDOOR
TRACKING



RADIO NETWORK
BRIDGING²



DIRECT IP
CONNECTION



MAN
DOWN



TELEPHONE
INTERCONNECT¹

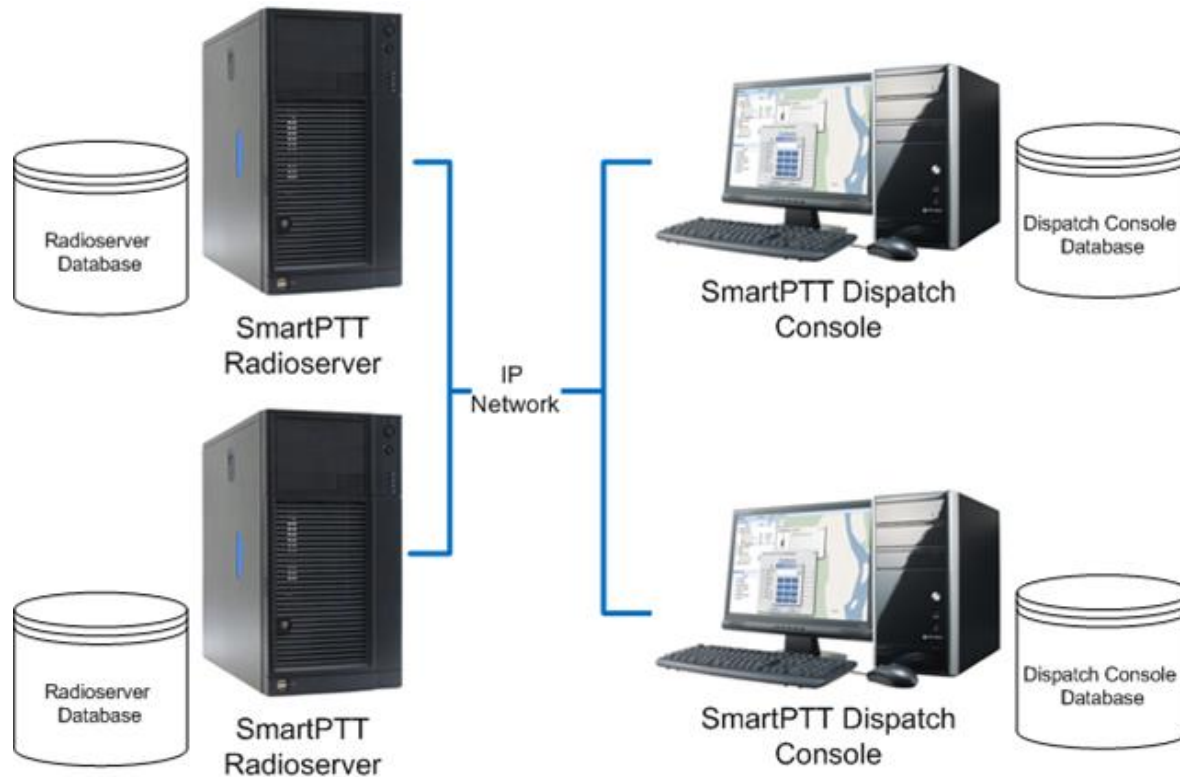
¹ Component is not available for Connect Plus systems.

² Component is not available for Capacity Max systems.

³ RF Coverage Monitoring is not available for Connect Plus systems, System Monitoring is not available for Capacity Max systems.

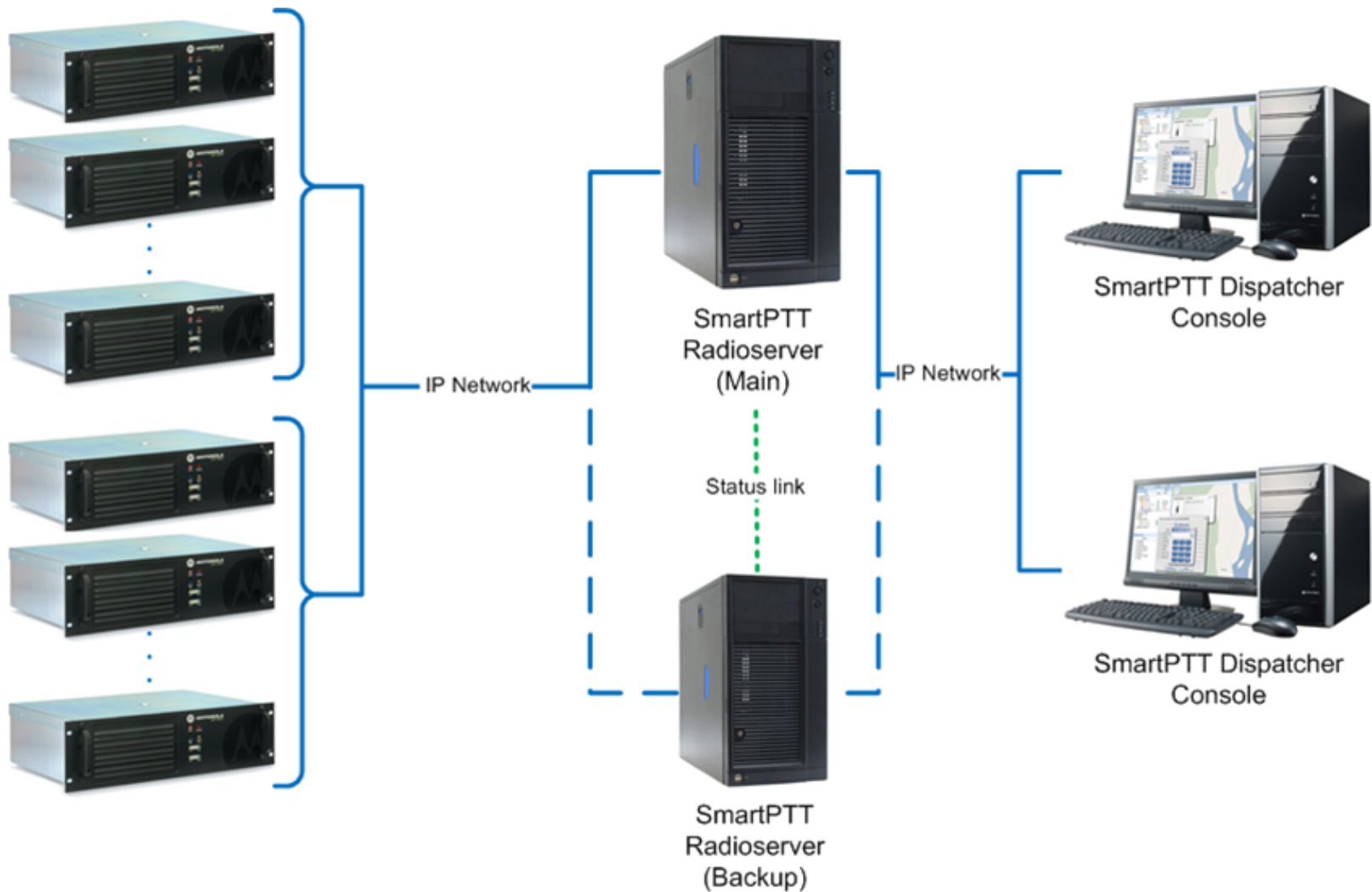


Voice and Events Log



- Access to the system records anywhere anytime
- Logs are done both on server and dispatcher sides for redundancy

Redundant Radioservers





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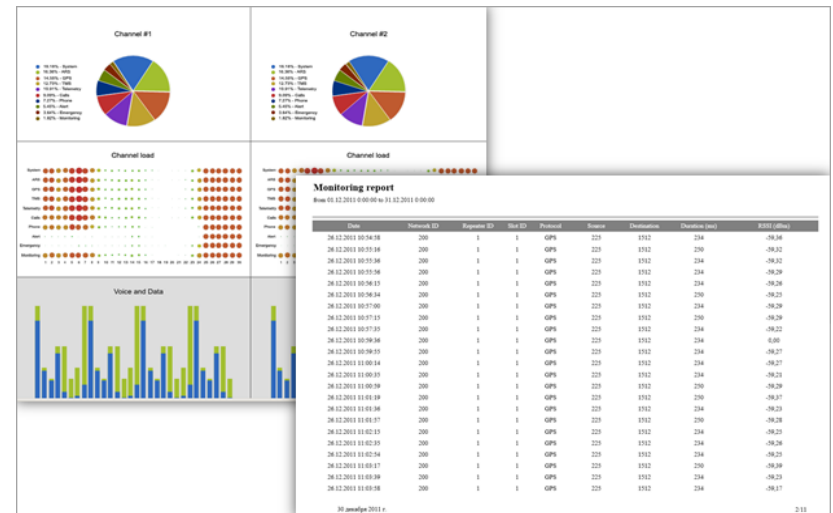
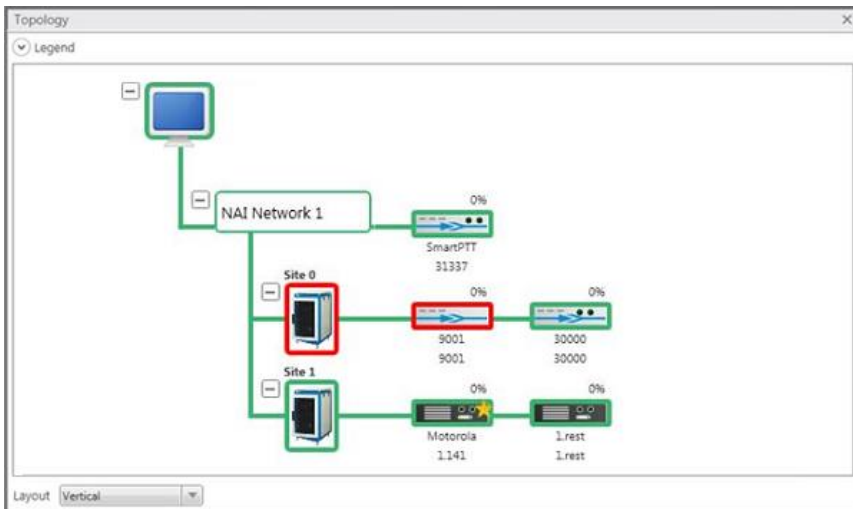
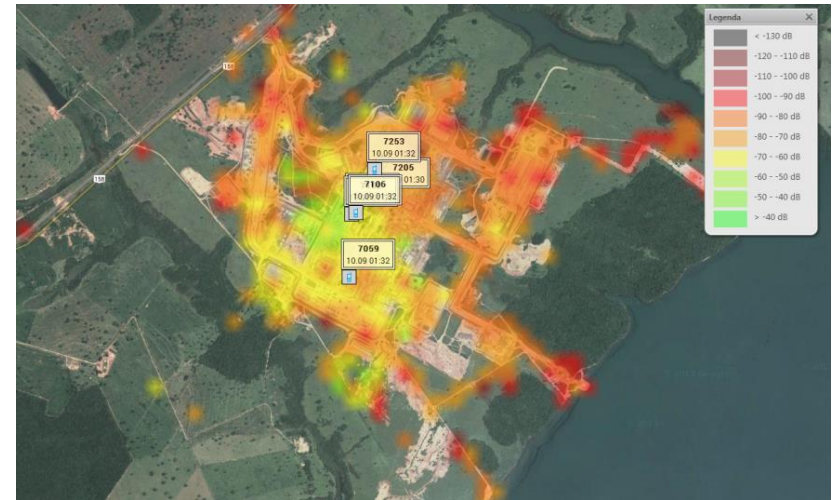
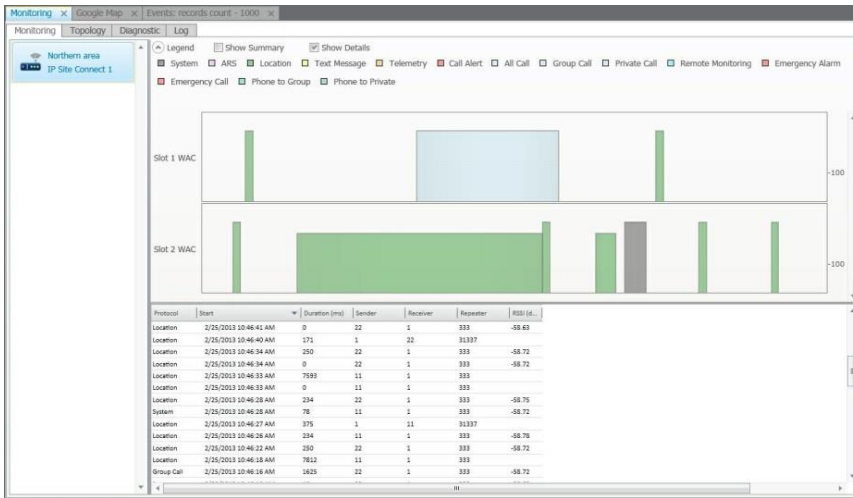
TELEPHONE
INTERCONNECT¹

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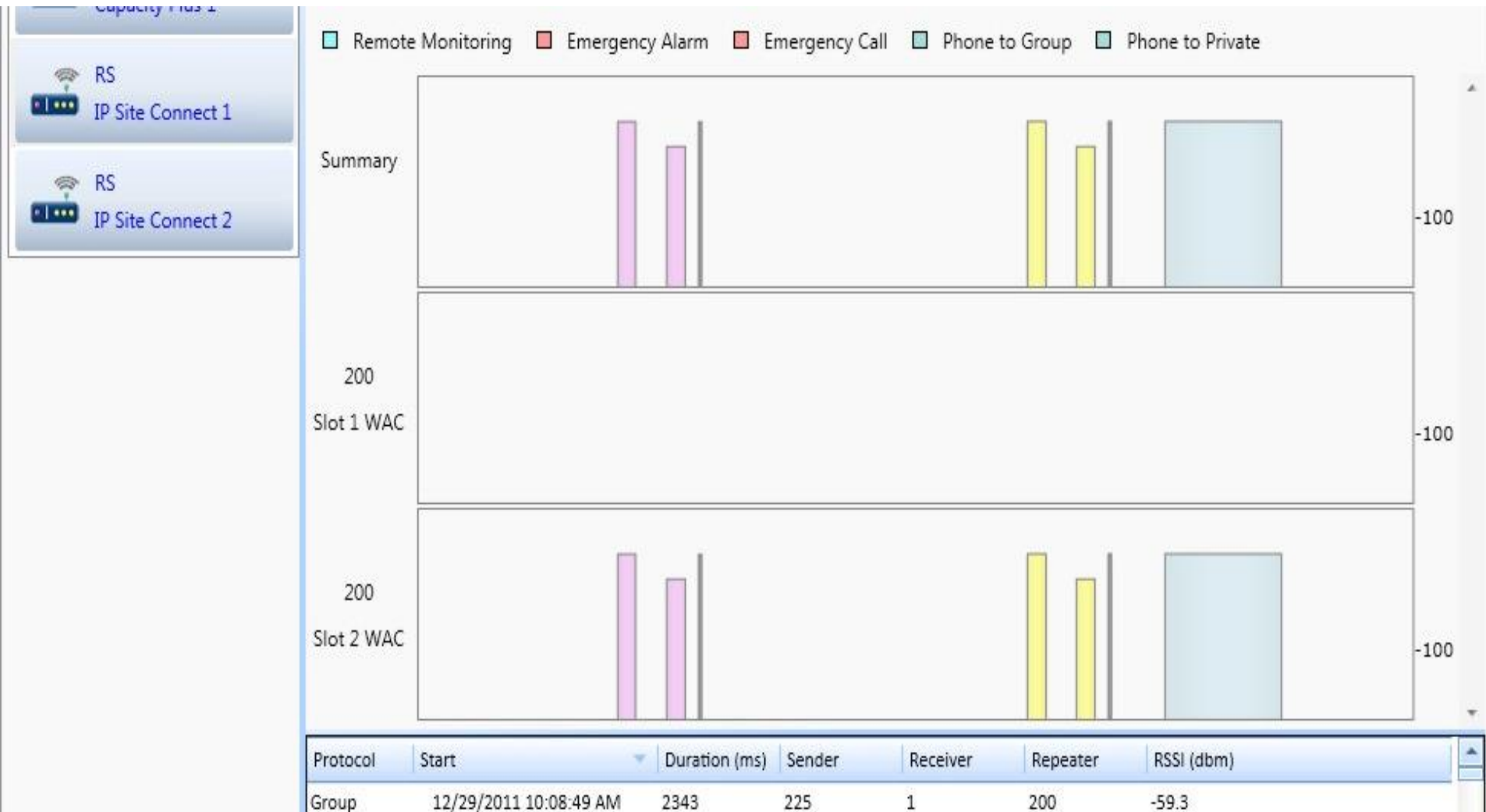
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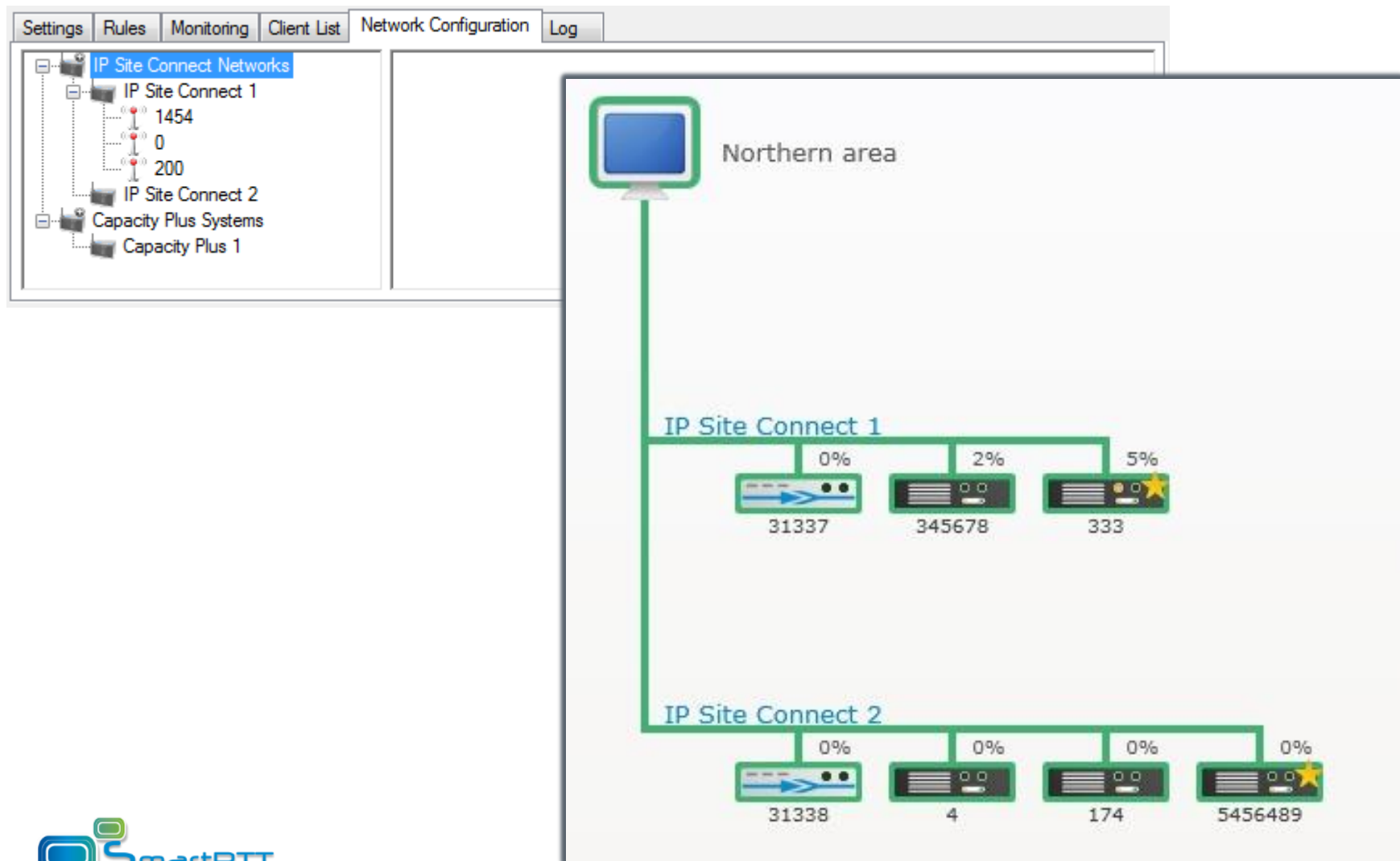
SmartPTT Monitoring



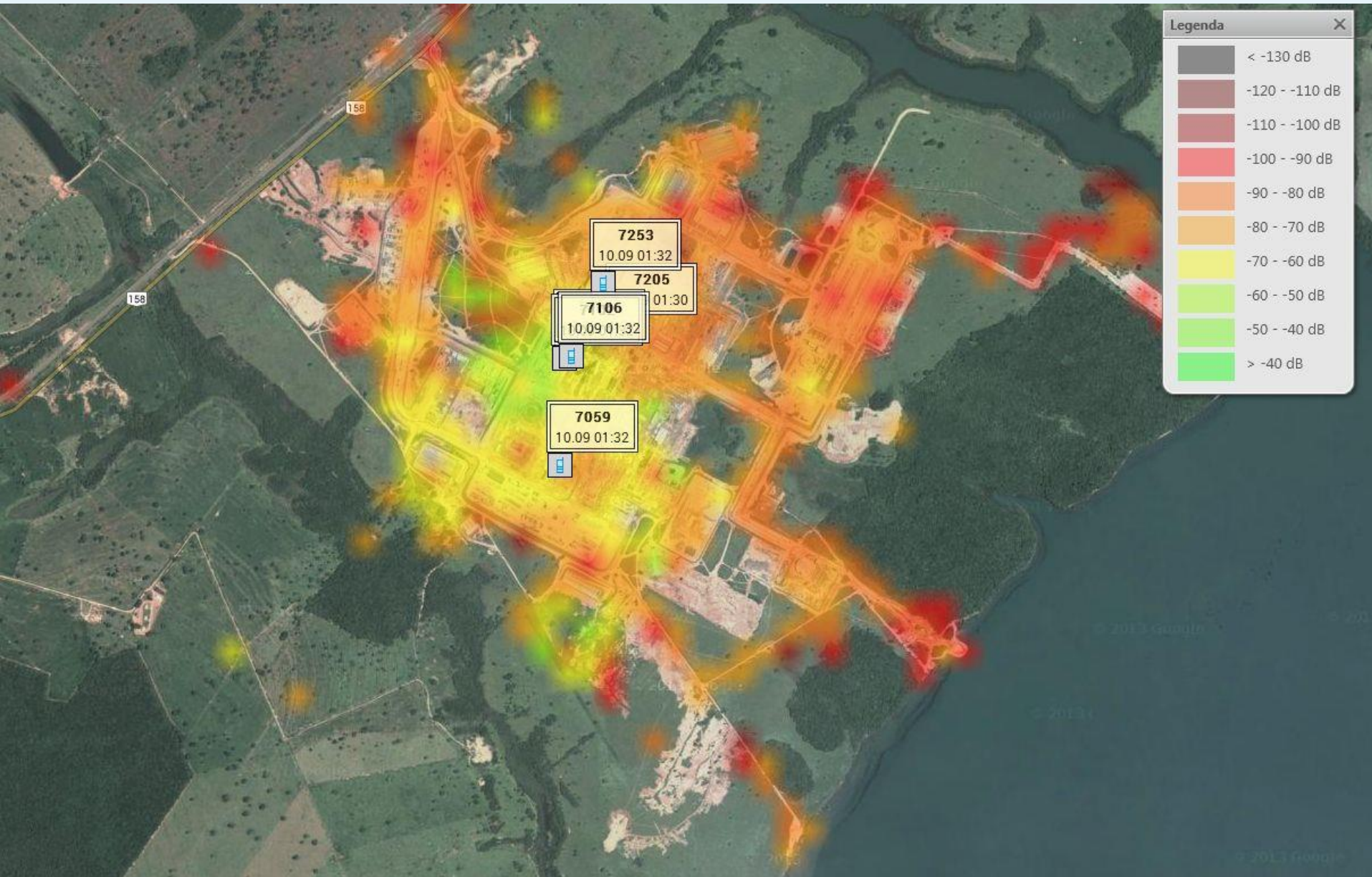
Real Time Monitoring



Network Topology



Coverage Map



Hardware Diagnostics & Control

Monitoring Topology Diagnostic

Move column header here for grouping

Radio Network	Peer Id	IP-address	Model	Firmware Version	Serial...	Online	Master	Applica...	Voice Calls	Data Calls	Slot-1 WAC	Slot-2 WA
IP Site Connect 111	200	192.168.0.111:50000	M27QPR9JA7...	R01.08.02	484THG...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Capacity Plus 1	108	192.168.0.173:50000	M27JNR9JA7...	R01.08.10	484TLW...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Capacity Plus 1	54754	0.0.0.0:50002				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
IP Site Connect 111	12345	192.168.0.54:50001				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Monitoring Topology Diagnostic

Move column header here for grouping

Name	Rx Frequency	Tx Frequency	Tx Alarm	Rx Alarm	Temp Alarm	AC Power Alarm	Fan Alarm	VSWR Alarm	TX Power Alarm	RF Power Control Ala...	Ext. Circula...	Vali...
T	445	440	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	171.155	173.95	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



Alternative to RDAC

Repeater Control ✕

Current Channel: SmartPTT (RX:445, TX:440) ▾

Power, Tx: Low ▾

State: On ▾



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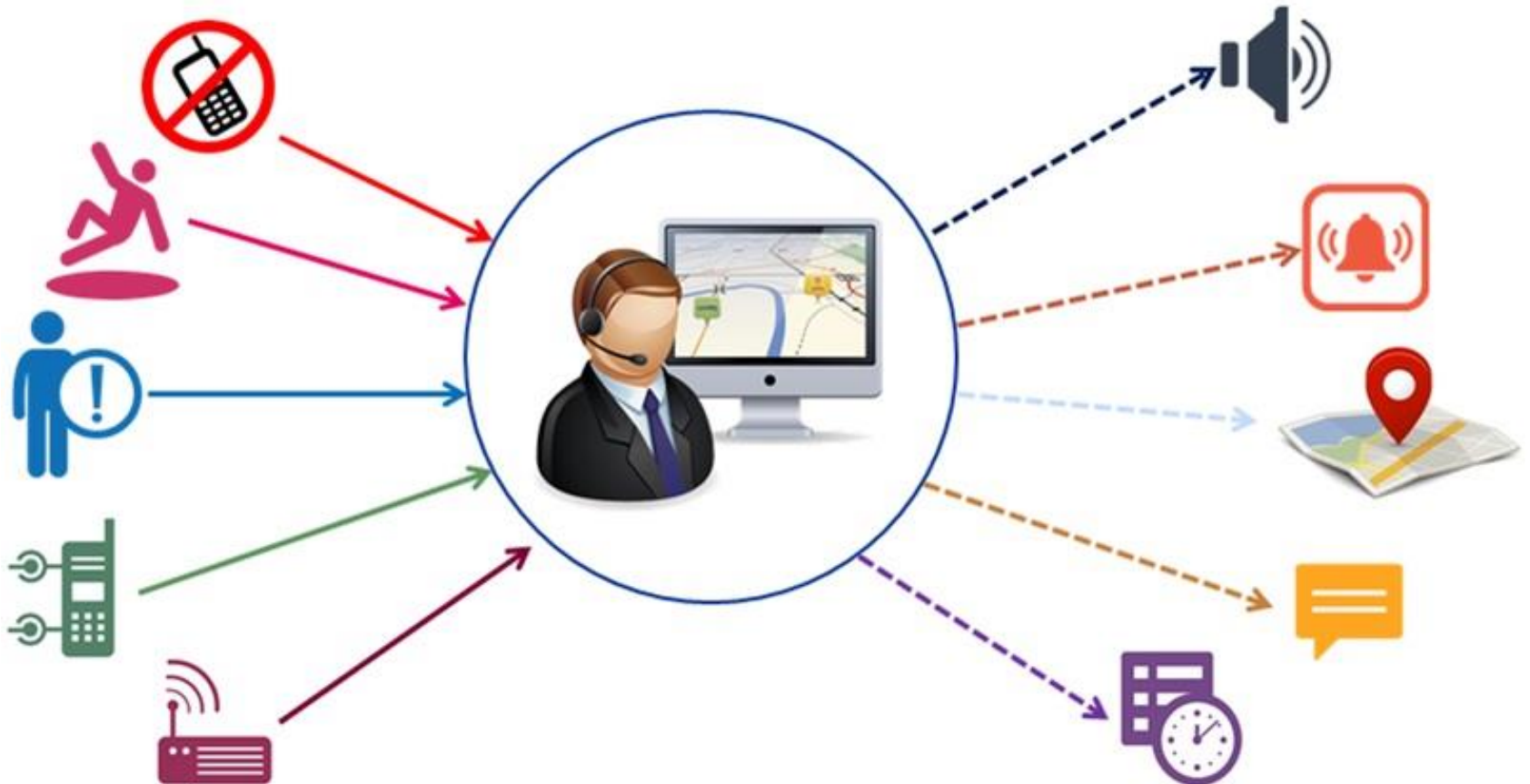
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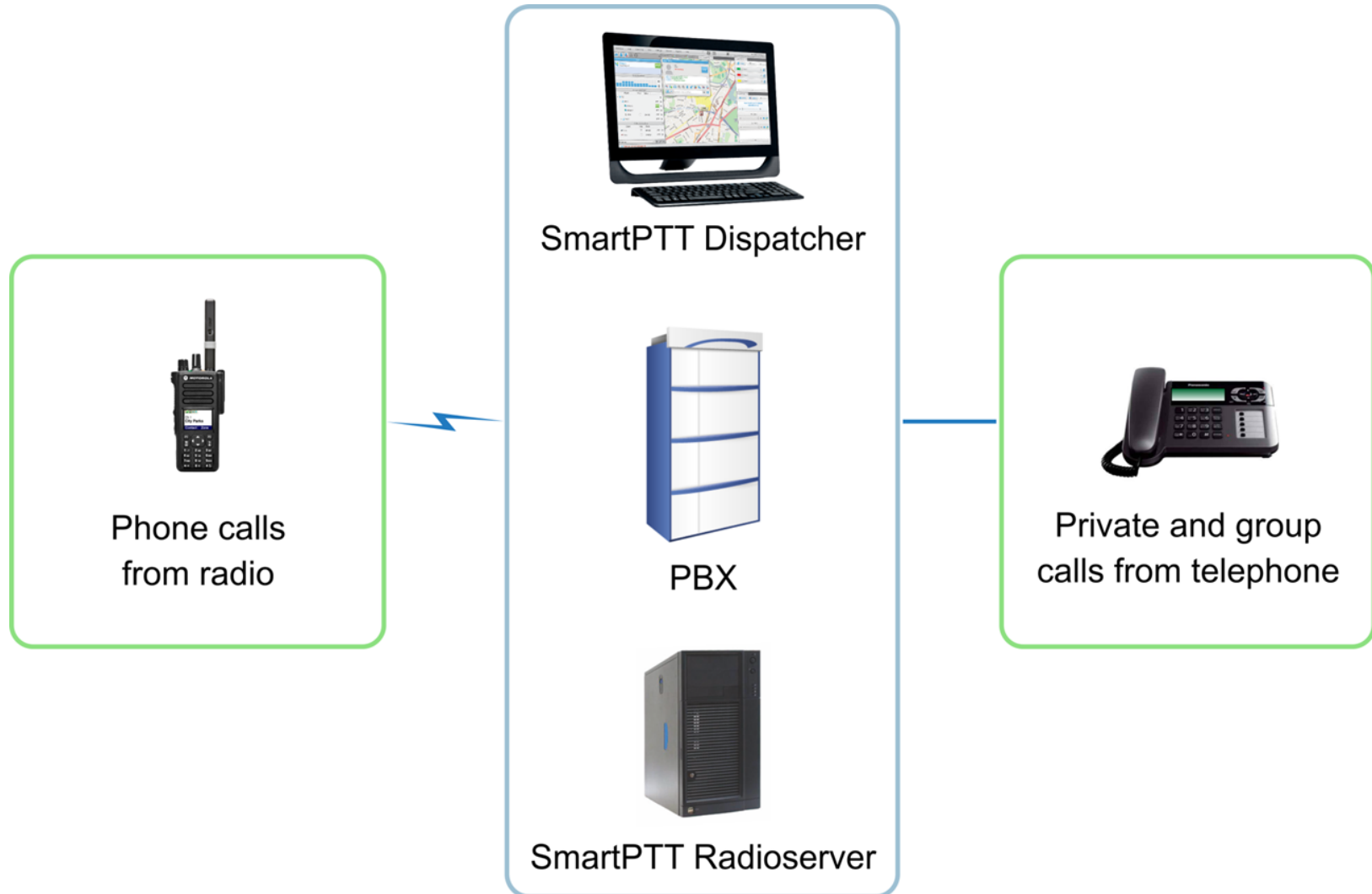
Rules and Alerts

- Improve the personnel safety with automatic alarms
- Maximize the efficiency of subscriber control

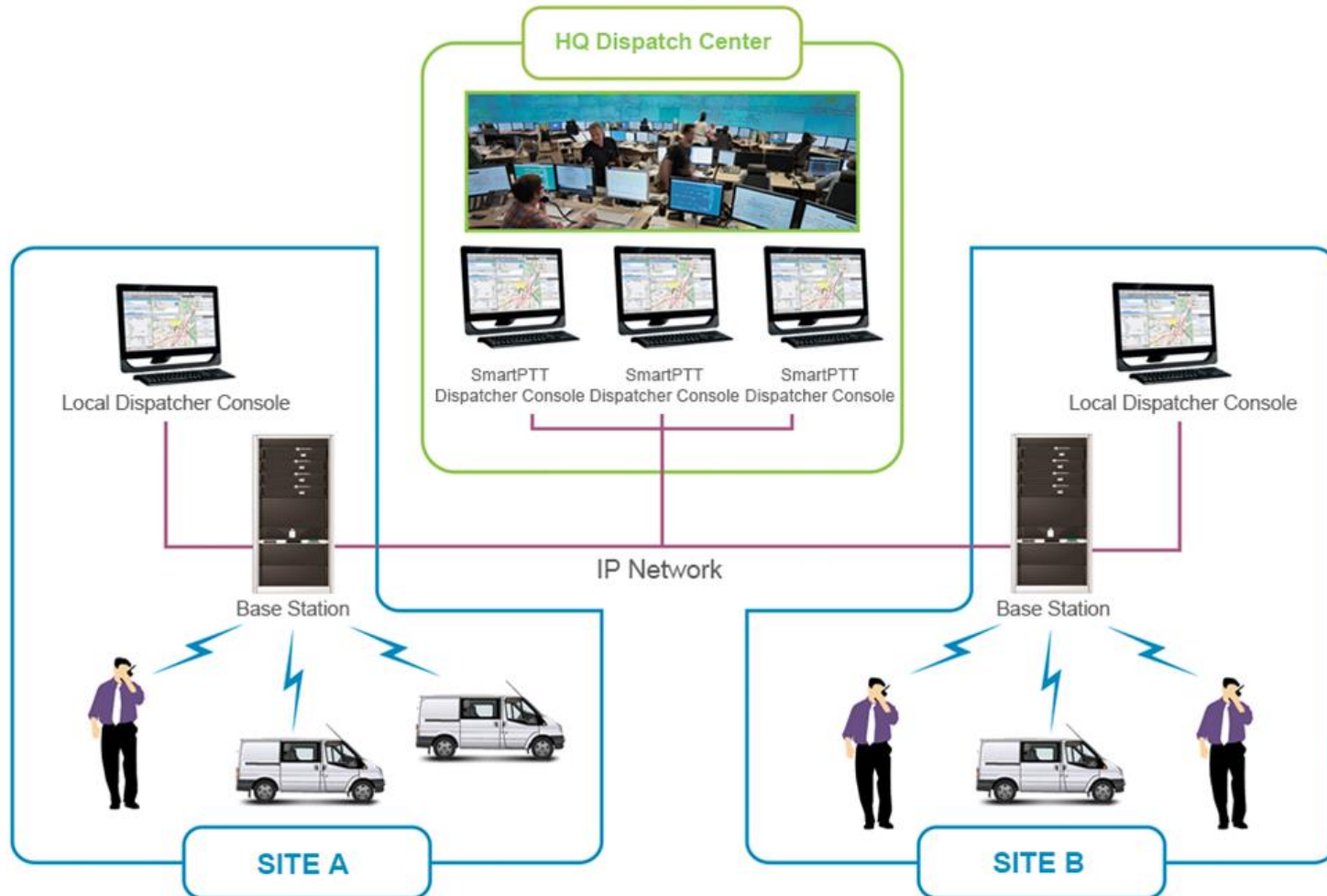




Telephone Interconnect



Multilevel Dispatch Architecture



Custom Console

The screenshot shows a web-based console interface with three tabs at the top: "Console 1", "Console 3", and "Monitoring".

Subscribers Panel (Purple background):

- Subscribers:** A section containing two user cards. The first card shows a black car icon and the name "John". The second card shows a red car icon and the name "Mary".
- Messaging:** A section for "Mary" with a text input field containing "Type text and press Enter", a right-pointing arrow button, and an envelope icon.
- Call:** A section featuring a blue telephone handset icon and the number "300".

Slots Panel (Yellow background):

- PTT:** A section with a microphone icon and the text "PTT".
- RS - Slot 1:** A section titled "All Call" with a status bar showing "0 / 0" (with a group icon) and a speaker icon.
- RS - Slot 2:** A section titled "All Call" with a status bar showing "0 / 0" (with a group icon) and a speaker icon.

Custom Console Designer

The screenshot displays the 'Console "Console 1"' application window. The interface is designed for configuring a radio console with various call control elements.

Left Panel (Channels): A tree view showing the hierarchy of channels:

- Channels
- Radio server
 - Managers
 - Engineers
 - Emergency
 - Security
- Talkgroups
- Subscribers
- Telephone Subscribers
- Dispatchers
- Channel Selector
- Outgoing Telemetry
- Incoming Telemetry
- Voice Notifications

Main Grid: A collection of call control buttons arranged in a grid:

- Managers (Green):** Includes buttons for 'Nikolas', 'George', and a 'radio 89' dropdown.
- Emergency contacts (Red):** Includes buttons for 'Antony', 'Broadcast' (0 out of 4), and 'Phone Operator' dropdown.
- All Call (Central):** Four buttons for 'All Call Managers', 'All Call Engineers', 'All Call Emergency', and 'All Call Security'.
- Workers (Blue):** Includes buttons for 'Peter', 'Boris', and 'Edward'.
- Security team (Yellow):** Includes buttons for 'Konstantin', 'Pablo', and 'Robert'.
- Alarm (Purple):** A button with a play icon and '1 out of 100'.
- PTT (Green):** A large button labeled 'PTT'.

Bottom Left Panel: Includes buttons for 'Broadcast Call', 'Panel', 'Incoming Events', 'TMS', and 'PTT'.

Right Panel (Control Station): Shows 'All Call Radio server - Emergency' with a 'Misc' section containing a 'Color' dropdown and a 'Radio server Name' checkbox.

Bottom Right: A small thumbnail preview of the console layout and a '100%' zoom indicator.

Top Bar: Contains the window title 'Console "Console 1"', a name field 'Name: Console 1', and 'Undo', 'Redo', and 'Delete' actions.

Bottom Bar: Contains 'Save' and 'Cancel' buttons.

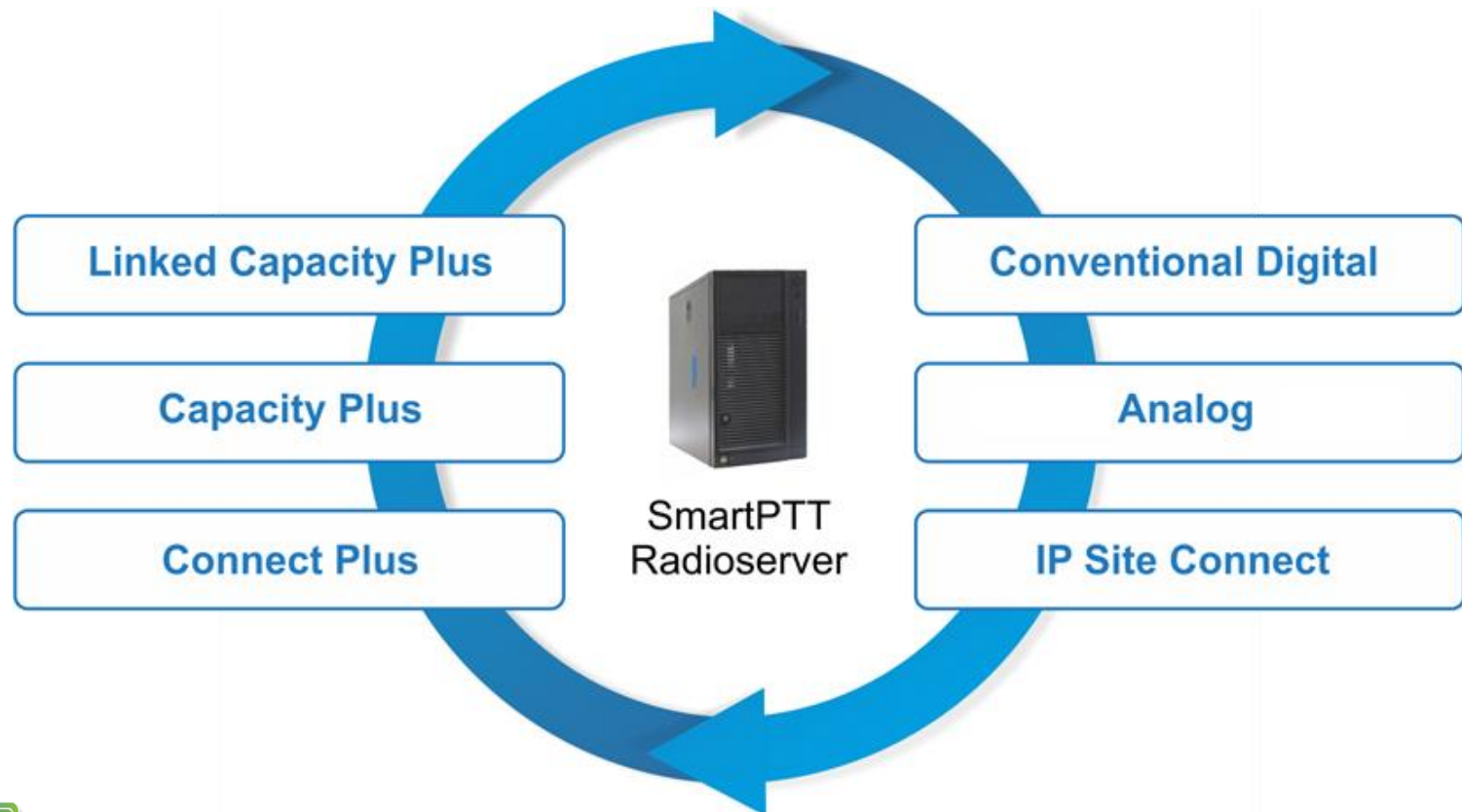
Custom Console benefits

- Simplify user interface
 - Convenient private and group call initiation
 - Information about current call is at hand
 - Easy access to required commands and contacts
 - Convenience when working with touchscreens
-
- ✓ Increase in dispatcher's operation speed
 - ✓ Easy migration from old dispatch consoles

Radio Network Bridging



SmartPTT provides bridging of separate radio networks into a single communication environment



Radio Network Bridging

- **Local bridging (one radioserver)**
 - Static bridging
 - Dynamic bridging
- **Bridging between different radioservers**



Verticals

- Oil & gas
- Mining
- Public safety and emergency responders
- Power distribution
- Transportation
- Manufacturing
- Municipalities



Oil and Gas Extraction and Transportation

Stavrolen LLC (Lukoil), Russia

- SmartPTT Enterprise
- 44 sites
- 196 subscribers

Orpic refinery, Oman

- SmartPTT Plus
- 3 sites
- 575 subscribers

Akzo Nobel Chemicals, USA

- SmartPTT Enterprise
- 1 site
- 127 subscribers

A number of projects for Russian holdings:

- Gazprom
- Rosneft
- Lukoil



Transportation and Logistics

Cimar Rodoviaras, Brazil

- SmartPTT Enterprise
- 7 sites
- 80 subscribers

Koltsovo international airport, Russia

- SmartPTT Enterprise
- 3 sites
- 188 subscribers

Miami Airport , USA

- SmartPTT Enterprise
- 1 site
- 25 subscribers



Mining

Currah Mine, Australia

- SmartPTT Plus
- 10 sites
- 2000 subscribers

NuiPhao Mining Company, Vietnam

- SmartPTT Basic
- 1 sites
- 250 subscribers

Severočeské doly, Czech Republic

- SmartPTT Plus
- 2 sites
- 82 subscribers



Public Safety: Fire and Emergency Medical Services

Russian Emergencies Ministry, Sakhalin, Russia

- SmartPTT Enterprise
- 20 sites
- 800 subscribers



Dae-Jeon Fire Fighting, Korea

- SmartPTT Plus
- 6 sites
- 332 subscribers



Public Safety: Police

Police de Honduras

- SmartPTT Enterprise
- 5 sites
- 2300 Subscribers

Border Police of China

- SmartPTT Enterprise
- 6 sites
- 300 subscribers

Department of Internal Affairs of Novgorod region (Russia)

- SmartPTT Enterprise
- 25 sites
- 513 subscribers



Public Services

Kerkrade city municipality, the Netherlands

- SmartPTT Enterprise
- 1 site
- 100 subscribers



Samara Region Administration, Russia

- SmartPTT Enterprise
- 3 site
- 200 subscribers



Other public services projects:

- City municipalities in Saudi Arabia, Germany, Brazil, Spain

Manufacturing

Eldorado pulp-mill, Brazil

- SmartPTT Plus
- 5 sites
- 310 subscribers

Brasseries du Congo, Democratic Republic of Congo

- SmartPTT Enterprise
- 1 site
- 160 subscribers

Kellogg's, USA

- SmartPTT Enterprise
- 5 sites
- 300 subscribers



Energy

Energisa + CEMAT, Brazil

- SmartPTT Enterprise
- 100 sites
- 1600 subscribers

Almostakbl, Libya

- SmartPTT Enterprise
- 12 sites
- 1060 subscribers

EPS Distribucija «Elektrovojvodina», Serbia

- SmartPTT Plus
- 25 sites
- 810 subscribers



THANK YOU