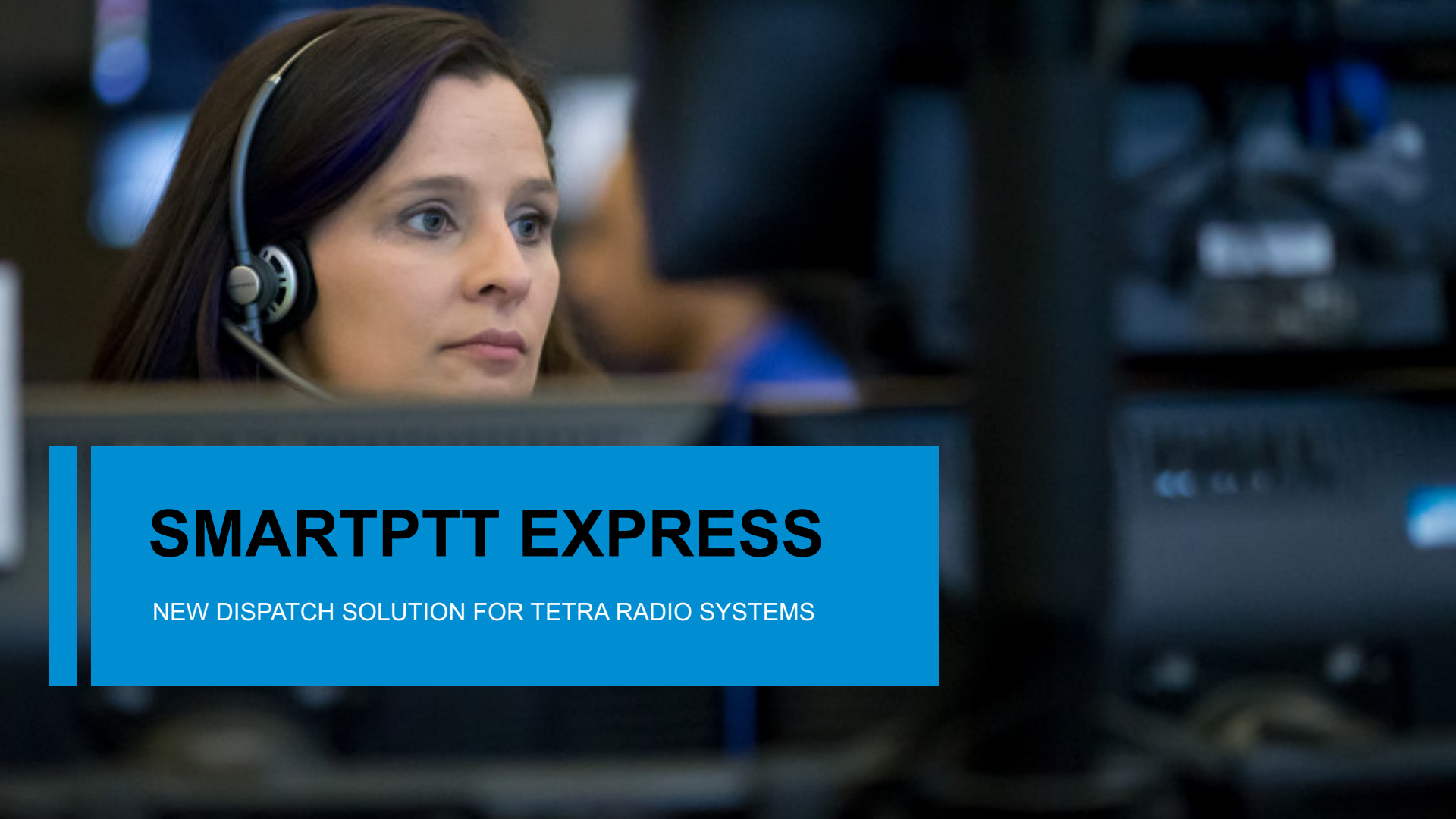


SMARTPTT EXPRESS

NEW DISPATCH SOLUTION FOR TETRA RADIO SYSTEMS

All a dispatcher needs
in a single app

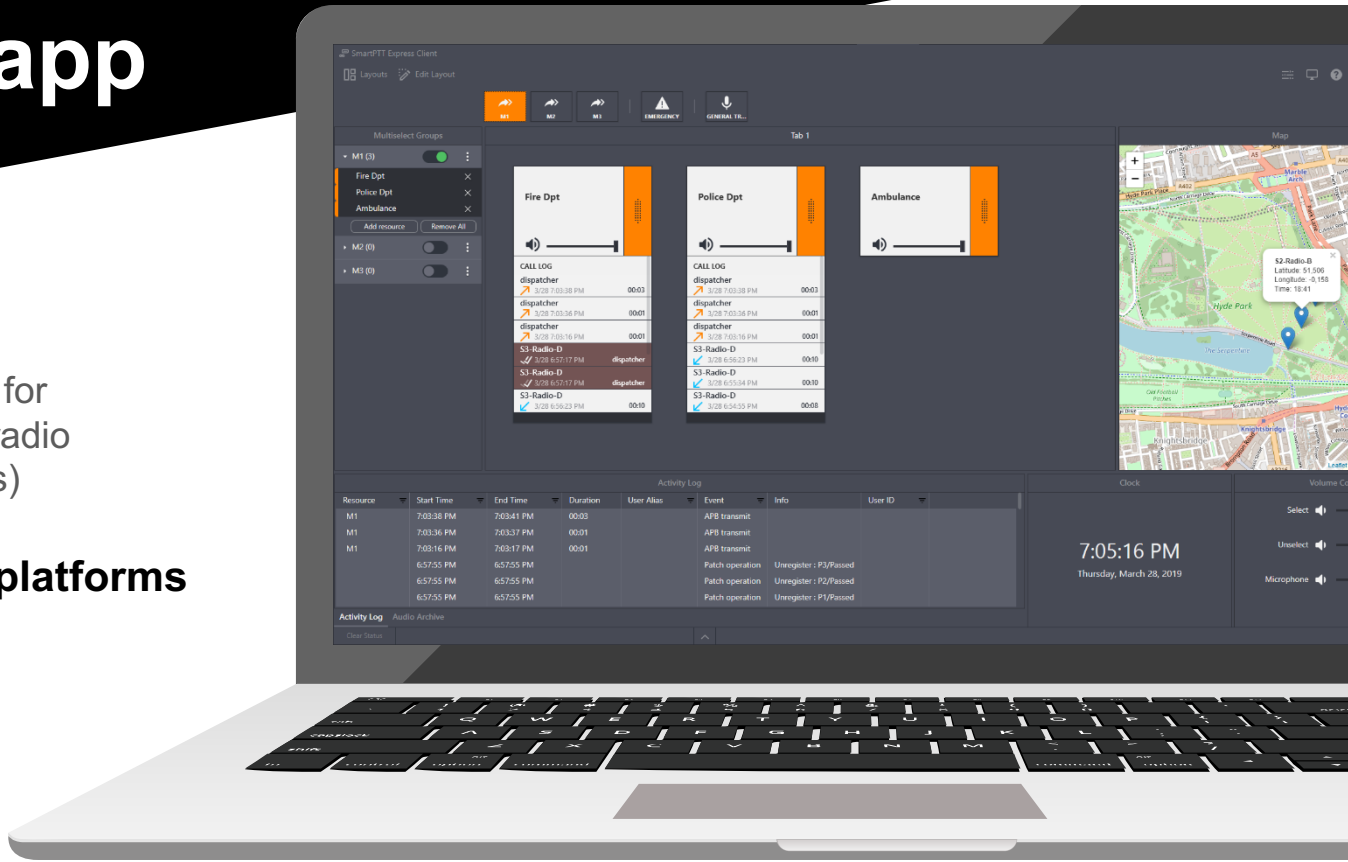
SmartPTT Express

is a flexible dispatch console for DIMETRA™ (TETRA digital radio system by Motorola Solutions)

Supported DIMETRA™ platforms

- Express
- Compact
- Micro
- X Core

(with agreement from MSI)



BASIC FUNCTIONALITY

CRITICAL INSTANT COMMUNICATIONS

- Individual calls
- Group calls (including outgoing call to several talk groups)
- Patch groups
- Emergency alarms and calls
- Prioritized calls
- System-wide call
- Text messaging

DISPATCH CONTROL

- **Highly customizable interface**
- Flexible output audio channel configuration
- Volume control per talk group
- Activity log
- Radio status messages
- Touchscreen support

SYSTEM SECURITY

- Centralized event log
- Role-based access (dispatcher, privileged dispatcher, supervisor)
- Authentication using Windows user credentials
- Flexible resource access rights configuration

EXTENDED FUNCTIONALITY

VOICE RECORDING

Data storage and easy reconstruction of incident details

AMBIENCE LISTENING

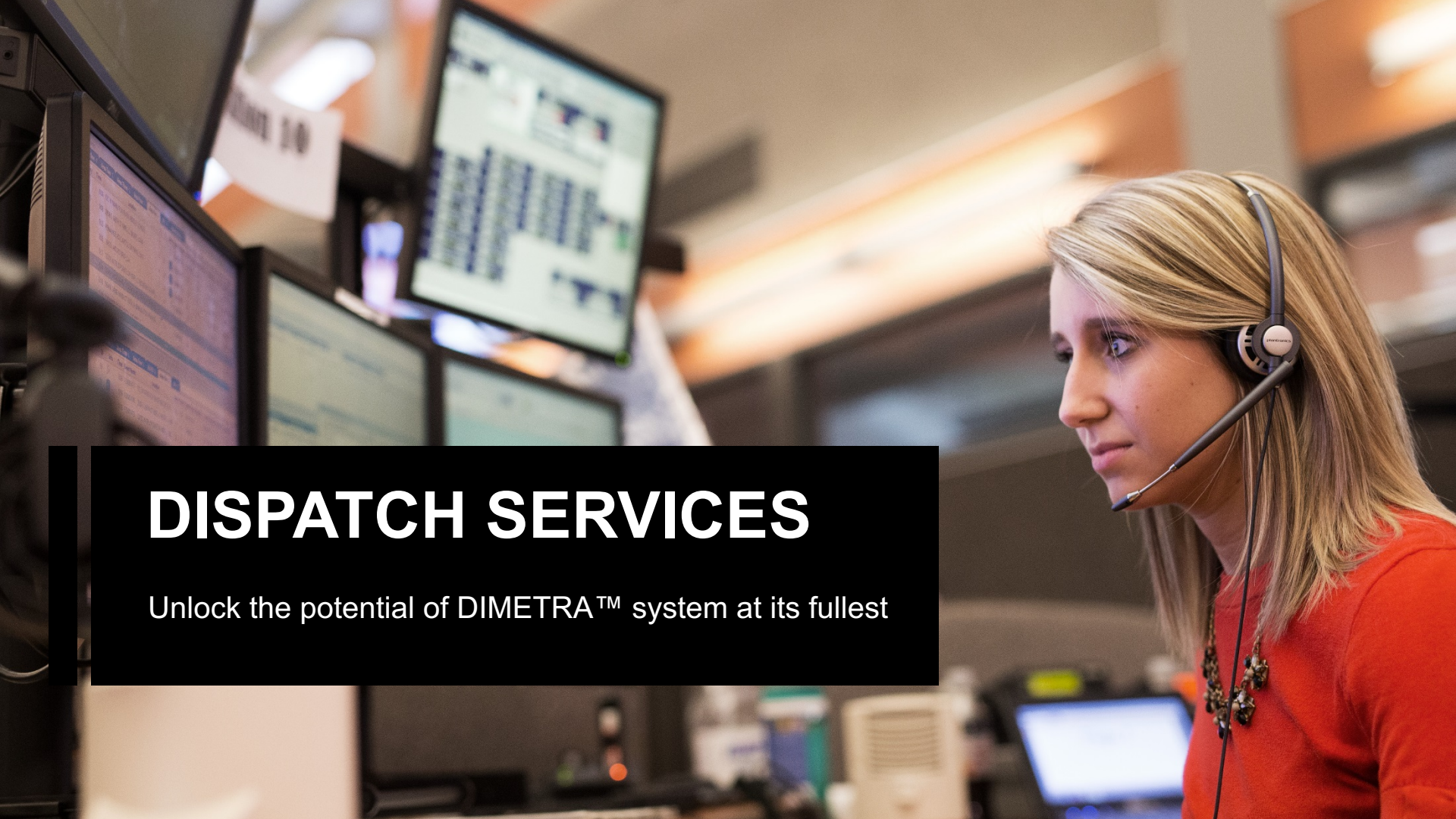
Situation awareness gain for subscribers' safety

GPS POSITIONING

Exact location of the radio subscribers displayed on a map

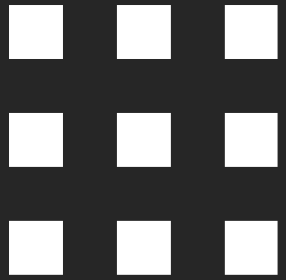
SCADA

Remote equipment control and asset management at industrial facilities



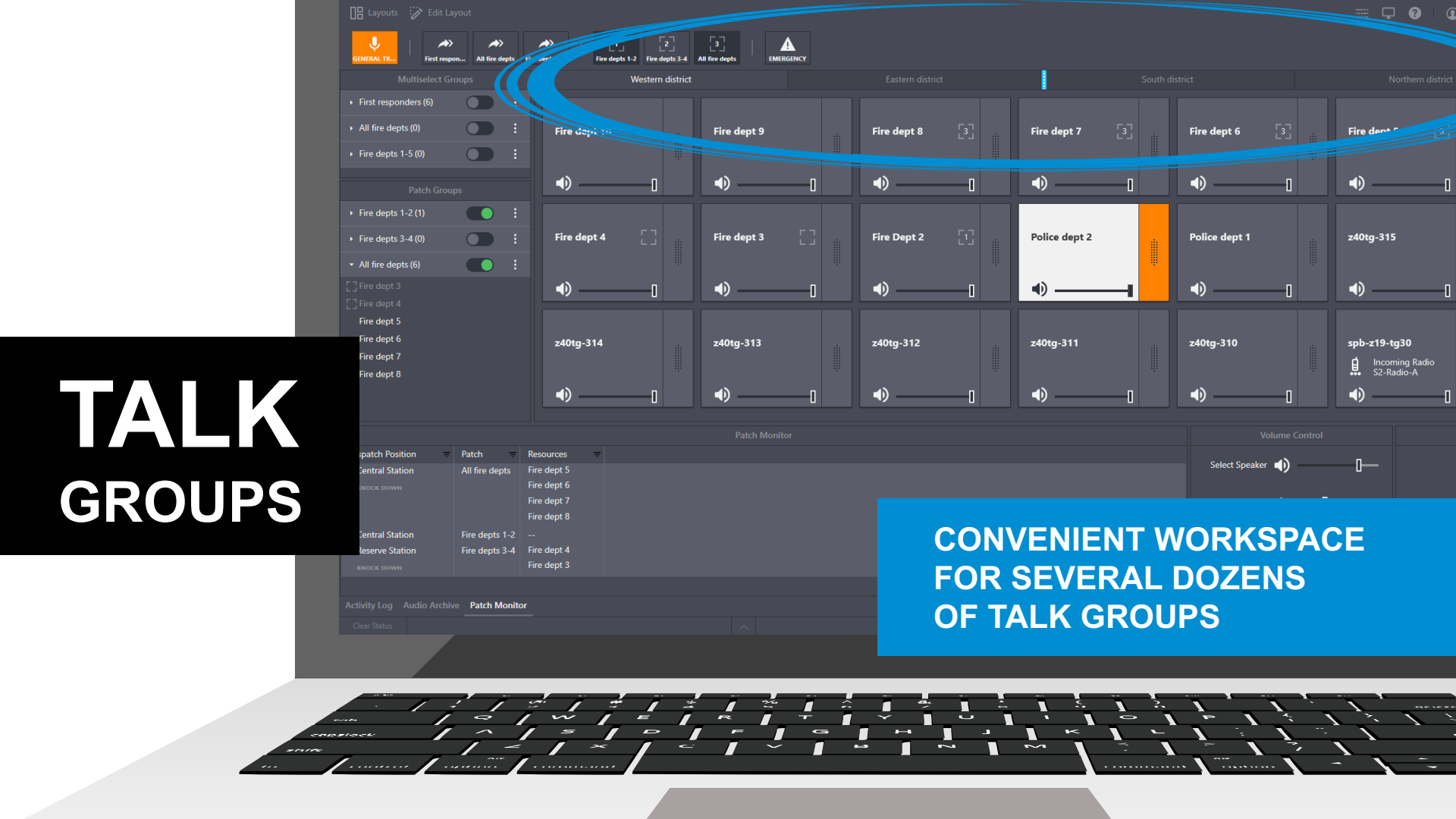
DISPATCH SERVICES

Unlock the potential of DIMETRA™ system at its fullest

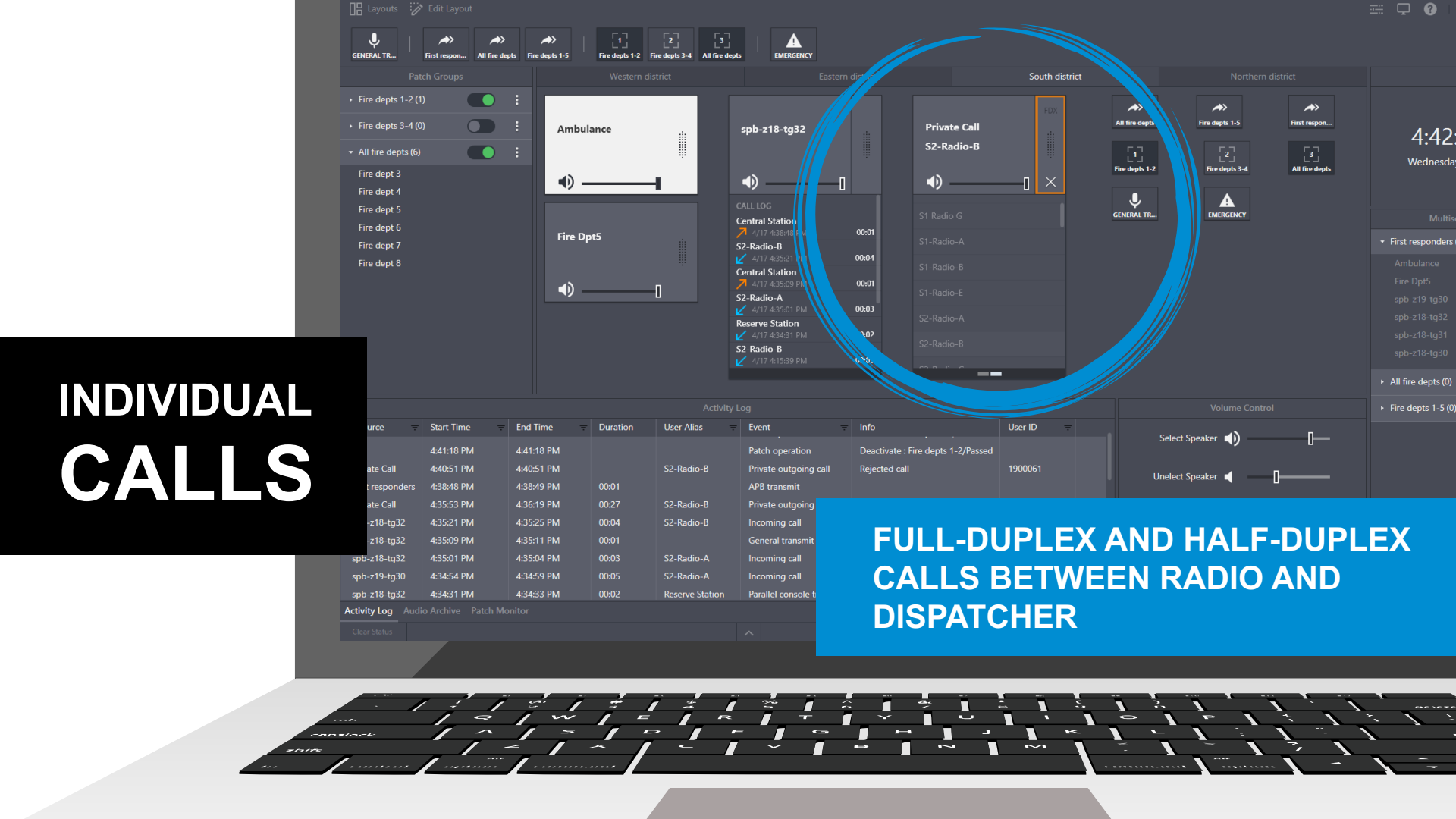


CALL TYPES

GROUP, EMERGENCY, INDIVIDUAL


TALK
GROUPS
CONVENIENT WORKSPACE
FOR SEVERAL DOZENS
OF TALK GROUPS
Layouts
Edit Layout
GENERAL TR...
First respon...
All fire depts
Fire depts 1-2
Fire depts 3-4
All fire depts
EMERGENCY
Multiselect Groups
First responders (6)
All fire depts (0)
Fire depts 1-5 (0)
Patch Groups
Fire depts 1-2 (1)
Fire depts 3-4 (0)
All fire depts (6)
Fire dept 3
Fire dept 4
Fire dept 5
Fire dept 6
Fire dept 7
Fire dept 8
Western district
Eastern district
South district
Northern district
Fire dept 9
Fire dept 8
Fire dept 7
Fire dept 6
Fire dept 4
Fire dept 3
Fire Dept 2
Police dept 2
Police dept 1
z40tg-315
z40tg-314
z40tg-313
z40tg-312
z40tg-311
z40tg-310
spb-z19-tg30
Incoming Radio
S2-Radio-A
Patch Monitor
Patch Position
Patch
Resources
Central Station
All fire depts
Fire dept 5
Fire dept 6
Fire dept 7
Fire dept 8
Central Station
Fire depts 1-2
--
Reserve Station
Fire depts 3-4
Fire dept 4
Fire dept 3
Activity Log
Audio Archive
Patch Monitor
Clear Status
Volume Control
Select Speaker

EMERGENCY
CALLS
VISUAL AND AUDIO
INDICATION OF THE EMERGENCY,
AUTOMATIC VOLUME ADJUSTMENT
Layouts
Edit Layout
GENERAL TR...
Tab 1
Fire Dpt
Police Dpt
Ambulance
Emergency
S3-Radio-D
CALL LOG
dispatcher
3/28 7:31:55 PM
02:44
dispatcher
3/28 7:30:03 PM
00:49
dispatcher
3/28 7:29:57 PM
00:05
3/28 7:24:24 PM
00:12
dispatcher
00:04
3/28 7:36:46 PM
00:02
S3-Radio-D
3/28 7:36:40 PM
00:06
S3-Radio-D
3/28 7:36:16 PM
00:03
S3-Radio-D
3/28 7:36:10 PM
S3-Radio-D
EMERGENCY
Police Dpt
Emergency
S3-Radio-D
Map
S2-Radio-1E-1900064:
Receiving time: 10/15/2019 2:49:21 PM
Latitude: 56.479157
Longitude: 85.0679
Update reason: Emergency Situation
Speed: —
Position accuracy: —
Direction: —
Status: —
Downham
Activity Log
Start Time
End Time
Duration
User Alias
Event
Info
User ID
7:36:46 PM
7:36:49 PM
00:02
Parallel console transmit
7:36:40 PM
7:36:45 PM
00:06
S3-Radio-D
Incoming call
7:36:16 PM
7:36:20 PM
00:03
S3-Radio-D
Incoming call
7:36:10 PM
7:36:10 PM
S3-Radio-D
7:36:04 PM
7:36:04 PM
S3-Radio-D
Police Dpt
7:36:04 PM
7:36:08 PM
00:04
S3-Radio-D
Activity Log
Audio Archive
Clear Status
Clock
Volume Cont
Select


INDIVIDUAL
CALLS
FULL-DUPLEX AND HALF-DUPLEX CALLS BETWEEN RADIO AND DISPATCHER
Layouts
Edit Layout
GENERAL TR...
First respon...
All fire depts
Fire depts 1-5
Fire depts 1-2
Fire depts 3-4
All fire depts
EMERGENCY
Patch Groups
Fire depts 1-2 (1)
Fire depts 3-4 (0)
All fire depts (6)
Fire dept 3
Fire dept 4
Fire dept 5
Fire dept 6
Fire dept 7
Fire dept 8
Western district
Eastern district
South district
Northern district
Ambulance
Fire Dpt5
spb-z18-tg32
CALL LOG
Central Station
00:01
S2-Radio-B
00:04
Central Station
00:01
S2-Radio-A
00:03
Reserve Station
S2-Radio-B
Private Call
S2-Radio-B
FDX
S1 Radio G
S1-Radio-A
S1-Radio-B
S1-Radio-E
S2-Radio-A
S2-Radio-B
4:42
Wednesda
Multis
First responders
Ambulance
Fire Dpt5
spb-z19-tg30
spb-z18-tg32
spb-z18-tg31
spb-z18-tg30
All fire depts (0)
Fire depts 1-5 (0)
Activity Log
Start Time
End Time
Duration
User Alias
Event
Info
User ID
4:41:18 PM
4:41:18 PM
Patch operation
Deactivate : Fire depts 1-2/Passed
4:40:51 PM
4:40:51 PM
S2-Radio-B
Private outgoing call
Rejected call
1900061
4:38:48 PM
4:38:49 PM
00:01
APB transmit
4:35:53 PM
4:36:19 PM
00:27
S2-Radio-B
Private outgoing
4:35:21 PM
4:35:25 PM
00:04
S2-Radio-B
Incoming call
4:35:09 PM
4:35:11 PM
00:01
General transmit
spb-z18-tg32
4:35:01 PM
4:35:04 PM
00:03
S2-Radio-A
Incoming call
spb-z19-tg30
4:34:54 PM
4:34:59 PM
00:05
S2-Radio-A
Incoming call
spb-z18-tg32
4:34:31 PM
4:34:33 PM
00:02
Reserve Station
Activity Log
Audio Archive
Patch Monitor
Clear Status
Volume Control
Select Speaker
Unelect Speaker

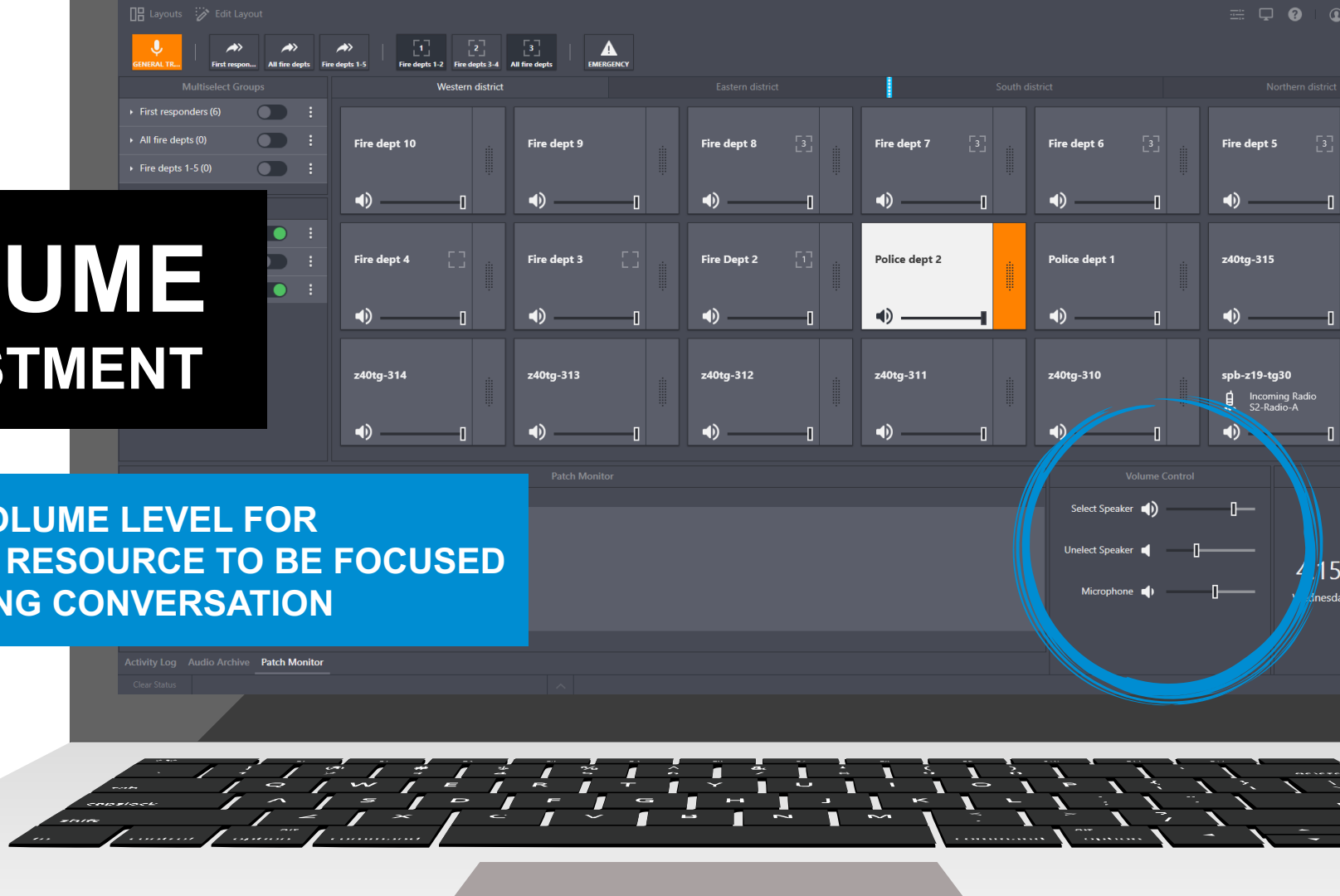
PRIVATE CALL INITIATION BY RADIO ID

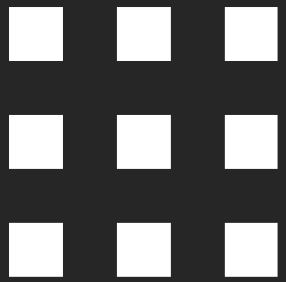
MORE CONVENIENT CALLS INITIATION

ID IS DISPLAYED TOGETHER WITH RADIO ALIAS ON THE PANEL TILE

VOLUME
ADJUSTMENT

ADJUST VOLUME LEVEL FOR SELECTED RESOURCE TO BE FOCUSED ON ONGOING CONVERSATION

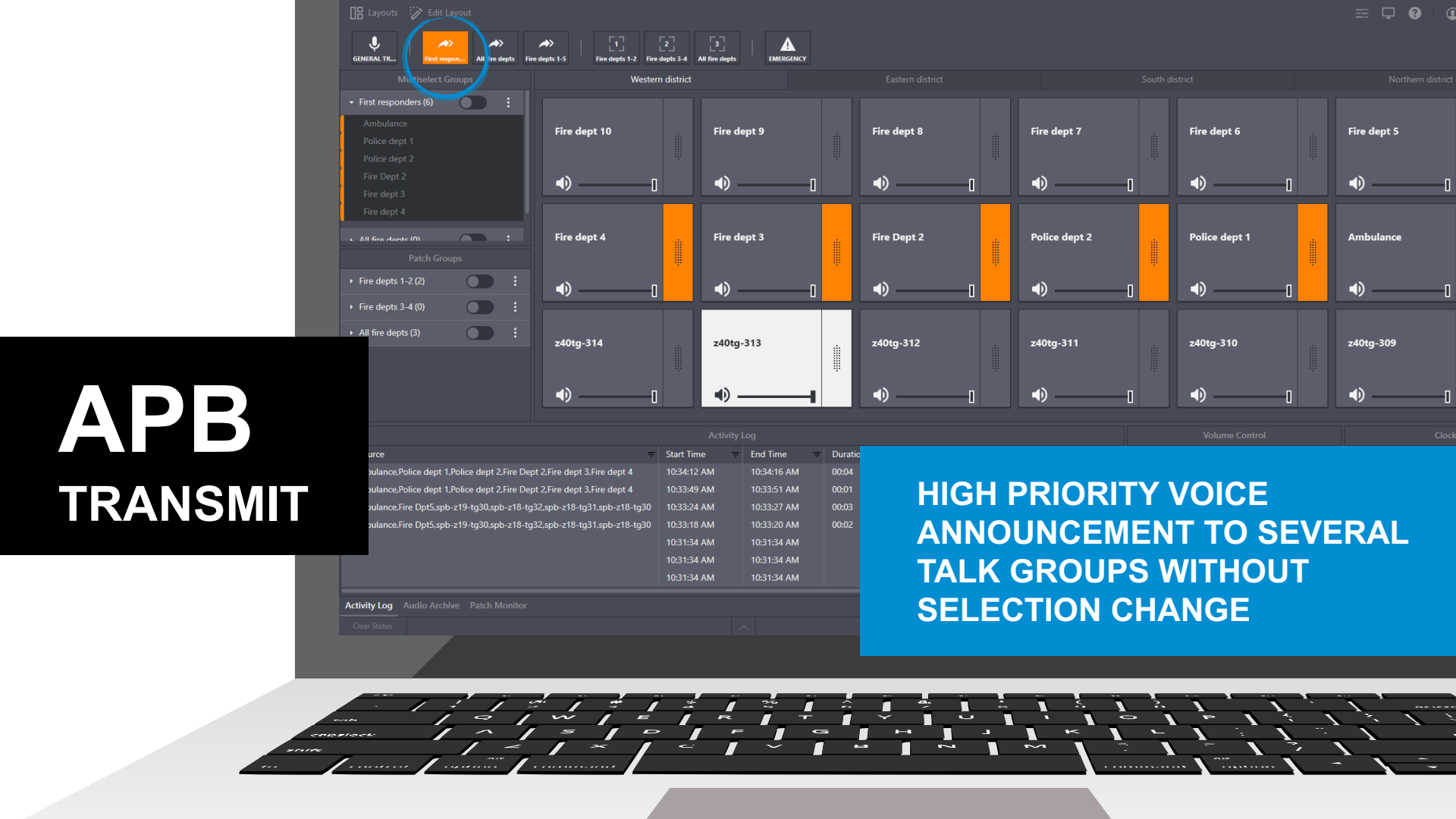




OUTGOING CALL OPTIONS

GENERAL, APB, INSTANT

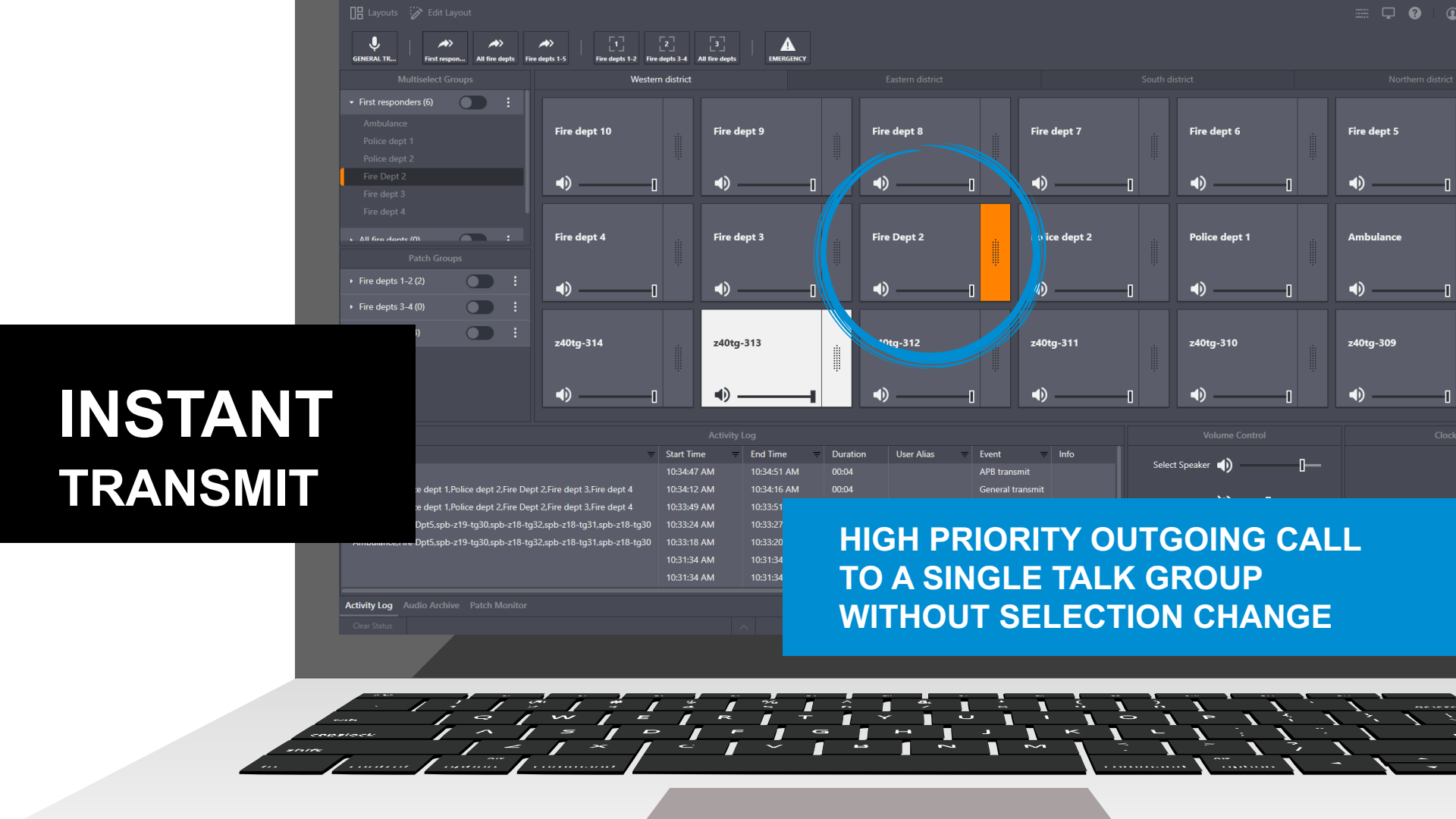
GENERAL TRANSMIT
ORIGINATE OUTGOING CALL TO SINGLE OR MULTIPLE TALK GROUPS USING
FOOT SWITCH
PTT BUTTON ON MIC
ON-SCREEN BUTTON
GENERAL TR...
First respon...
All fire depts
Fire depts 1-5
Fire depts 1-2
Fire depts 3-4
All fire depts
EMERGENCY
Western district
Eastern district
South district
Northern district
First responders (6)
All fire depts (0)
Fire depts 1-5 (0)
Patch Groups
Fire depts 1-2 (1)
Fire depts 3-4 (0)
All fire depts (6)
Fire dept 10
Fire dept 9
Fire dept 8
Fire dept 7
Fire dept 6
Fire dept 5
Fire dept 4
Fire dept 3
Fire Dept 2
Police dept 2
Police dept 1
z40tg-315
z40tg-314
z40tg-313
z40tg-312
z40tg-311
z40tg-310
spb-z19-tg30
Incoming Radio
S2-Radio-A
Patch Monitor
Patch
Resources
All fire depts
Fire dept 5
Fire dept 6
Fire dept 7
Fire dept 8
Fire depts 1-2
Fire depts 3-4
Fire dept 4
Fire dept 3
Activity Log
Audio Archive
Patch Monitor
Clear Status



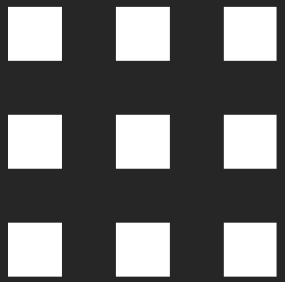
APB

TRANSMIT

HIGH PRIORITY VOICE ANNOUNCEMENT TO SEVERAL TALK GROUPS WITHOUT SELECTION CHANGE

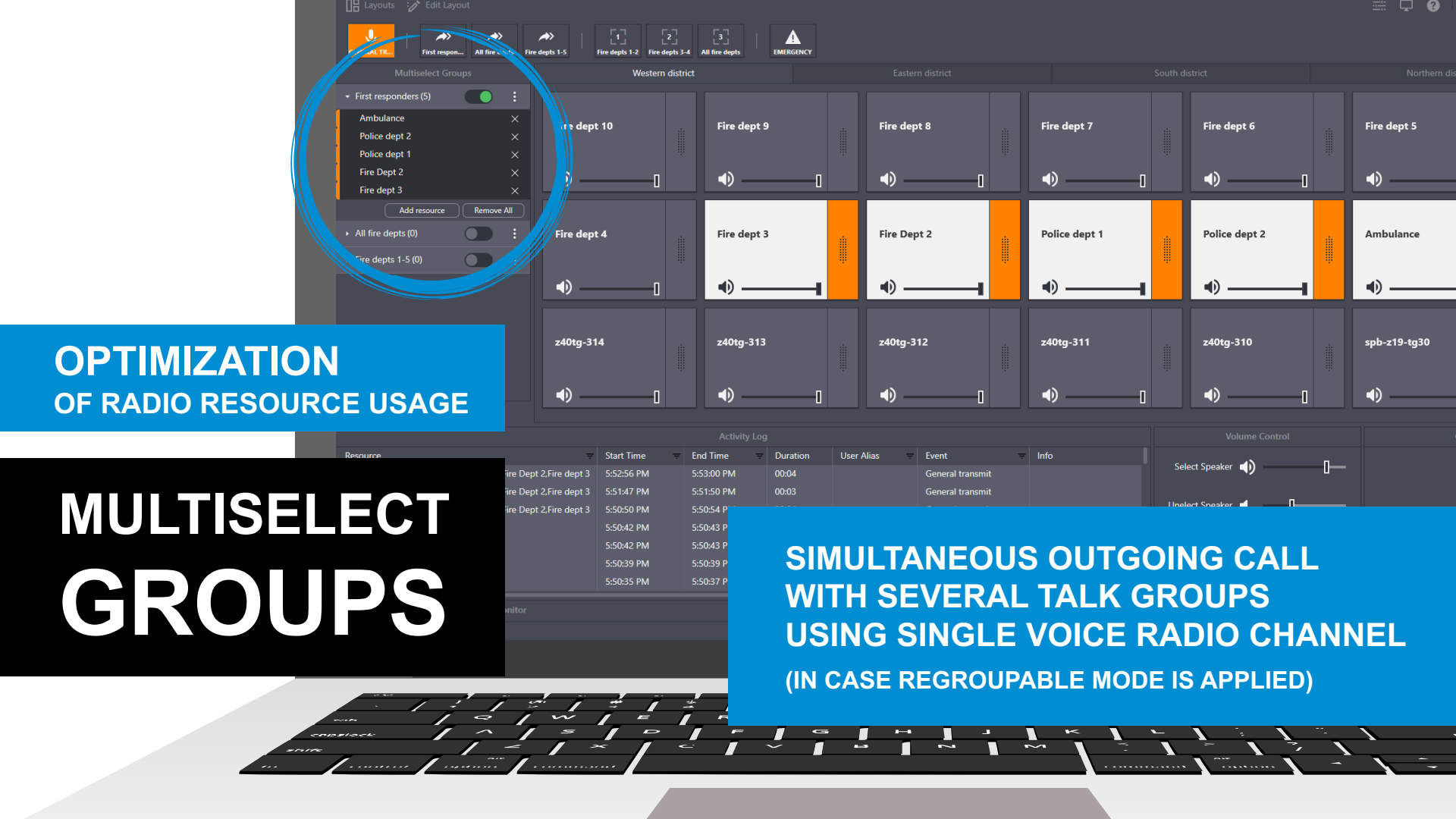

INSTANT
TRANSMIT
HIGH PRIORITY OUTGOING CALL
TO A SINGLE TALK GROUP
WITHOUT SELECTION CHANGE
Layouts
Edit Layout
GENERAL TR...
First respon...
All fire depts
Fire depts 1-5
Fire depts 1-2
Fire depts 3-4
All fire depts
EMERGENCY
Multiselect Groups
First responders (6)
Ambulance
Police dept 1
Police dept 2
Fire Dept 2
Fire dept 3
Fire dept 4
Patch Groups
Fire depts 1-2 (2)
Fire depts 3-4 (0)
Western district
Eastern district
South district
Northern district
Fire dept 10
Fire dept 9
Fire dept 8
Fire dept 7
Fire dept 6
Fire dept 5
Fire dept 4
Fire dept 3
Fire Dept 2
Police dept 1
Ambulance
z40tg-314
z40tg-313
z40tg-312
z40tg-311
z40tg-310
z40tg-309
Activity Log
Start Time
End Time
Duration
User Alias
Event
Info
10:34:47 AM
10:34:51 AM
00:04
APB transmit
10:34:12 AM
10:34:16 AM
00:04
General transmit
Volume Control
Select Speaker
Activity Log
Audio Archive
Patch Monitor
Clear Status

ONLY DISPATCH SYSTEM CAN PROVIDE THIS



PATCHES & MULTISELECT

CALLS TO / BETWEEN SEVERAL TALK GROUPS



OPTIMIZATION
OF RADIO RESOURCE USAGE

MULTISELECT GROUPS

SIMULTANEOUS OUTGOING CALL WITH SEVERAL TALK GROUPS USING SINGLE VOICE RADIO CHANNEL

(IN CASE REGROUPABLE MODE IS APPLIED)

OPTIMIZATION
OF RADIO RESOURCE USAGE

PATCH GROUPS

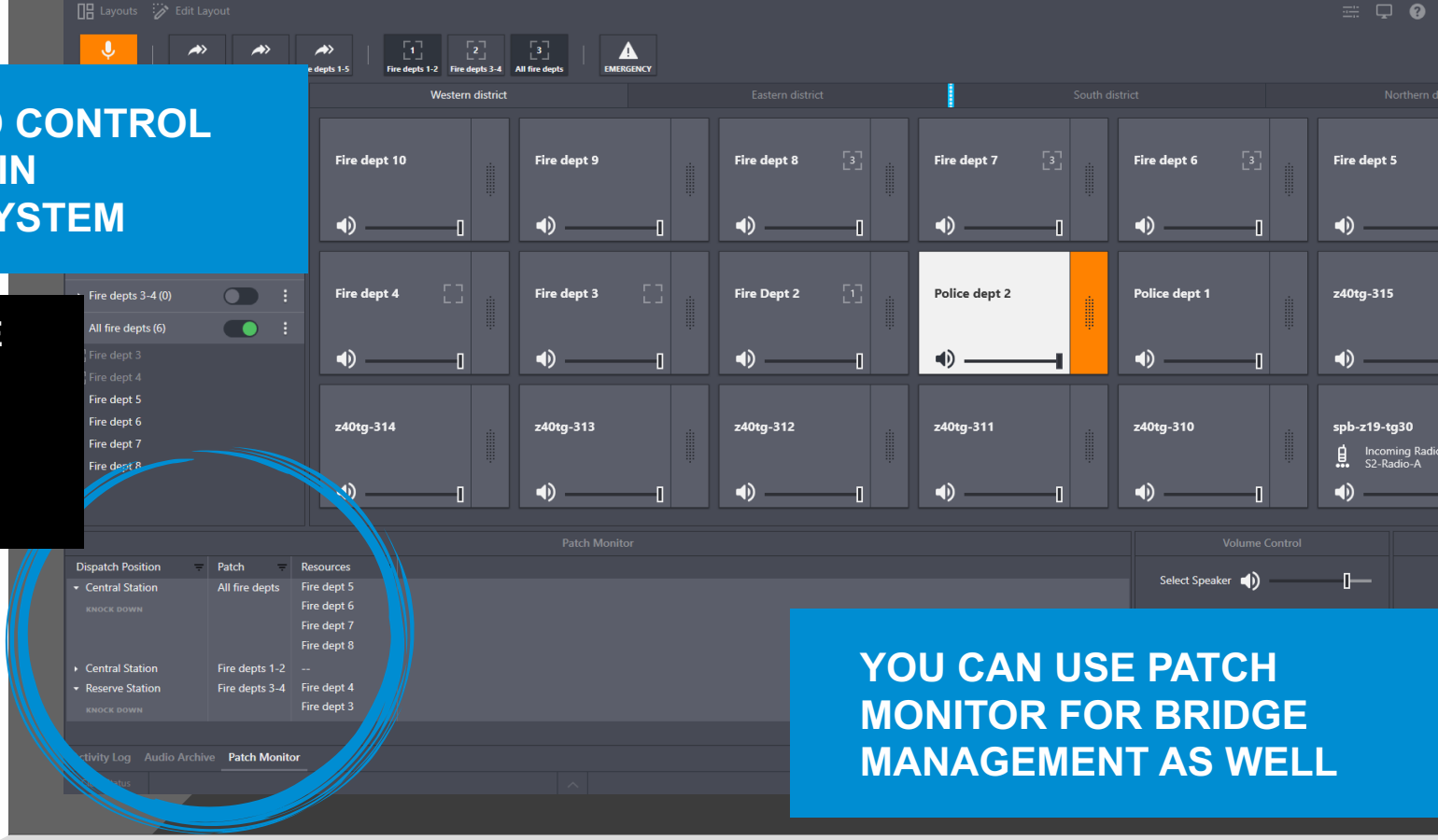
DUBBING OF INCOMING AND OUTGOING CALLS FROM ONE TALK GROUP TO ANOTHER (ONE OR SEVERAL)

(IN CASE REGROUPABLE MODE IS APPLIED)

OBSERVE AND CONTROL ALL PATCHES IN THE ENTIRE SYSTEM

ADMINISTRATIVE

PATCH MONITOR



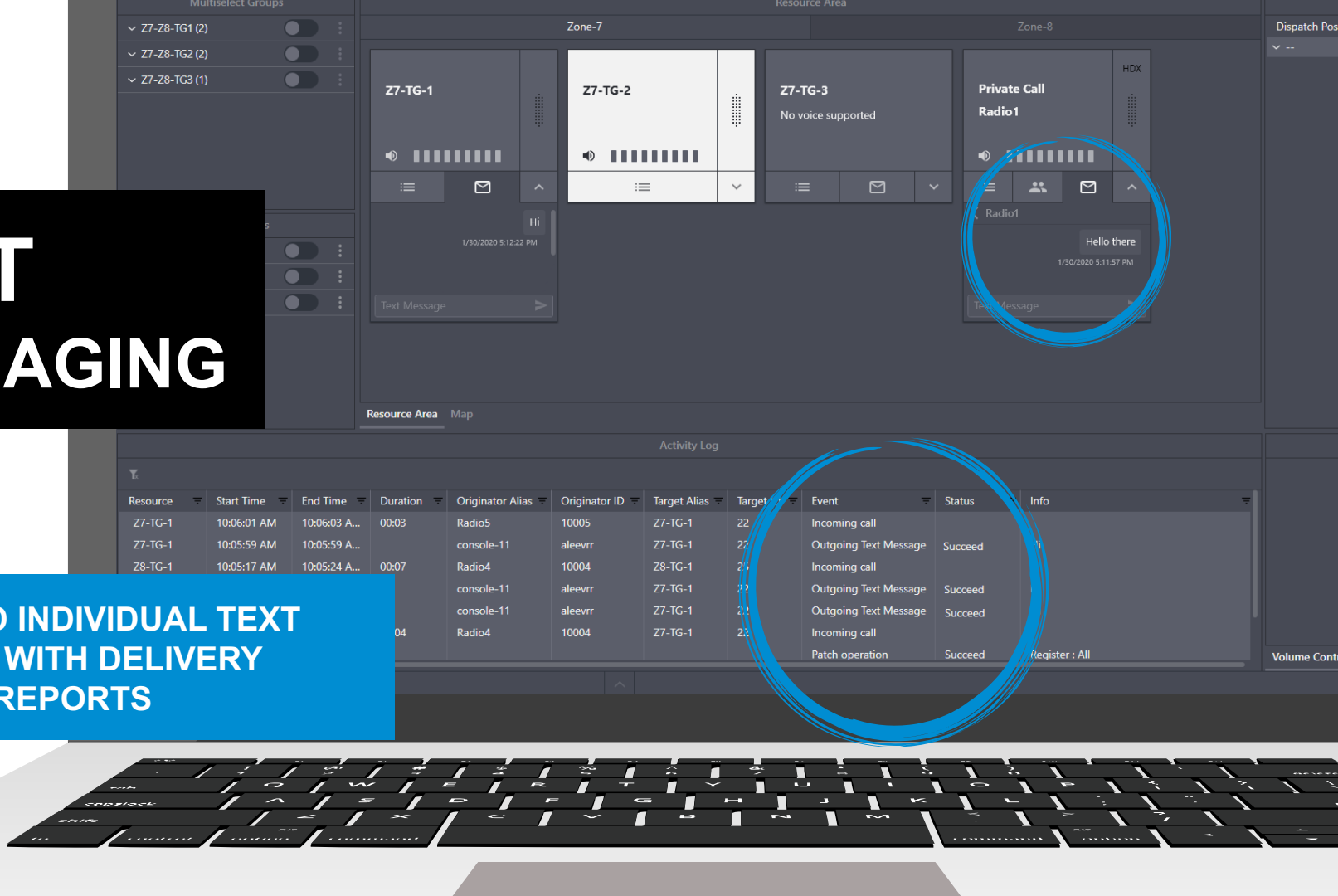
YOU CAN USE PATCH MONITOR FOR BRIDGE MANAGEMENT AS WELL

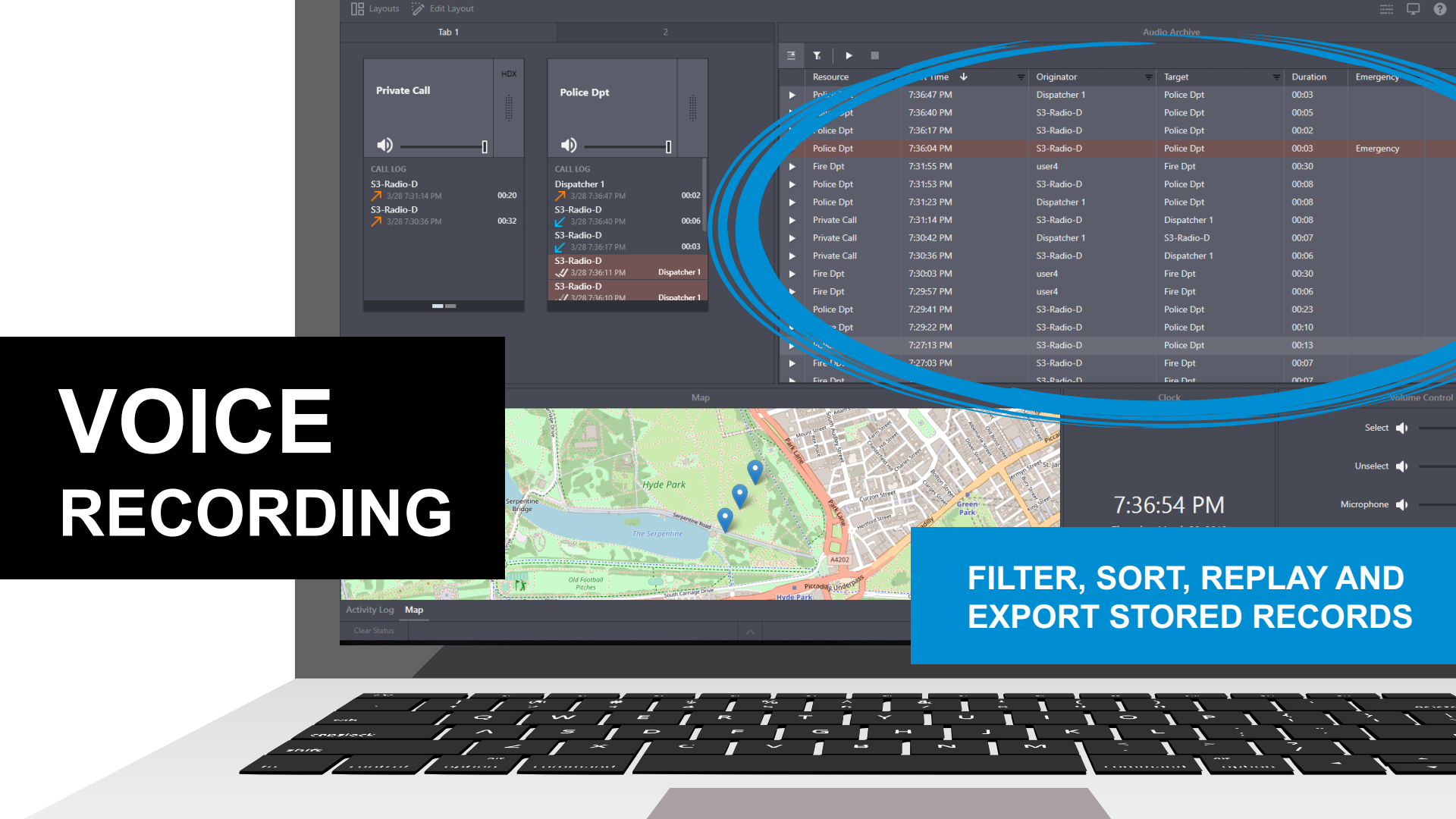
DATA SERVICES

Extending dispatch capabilities

TEXT MESSAGING

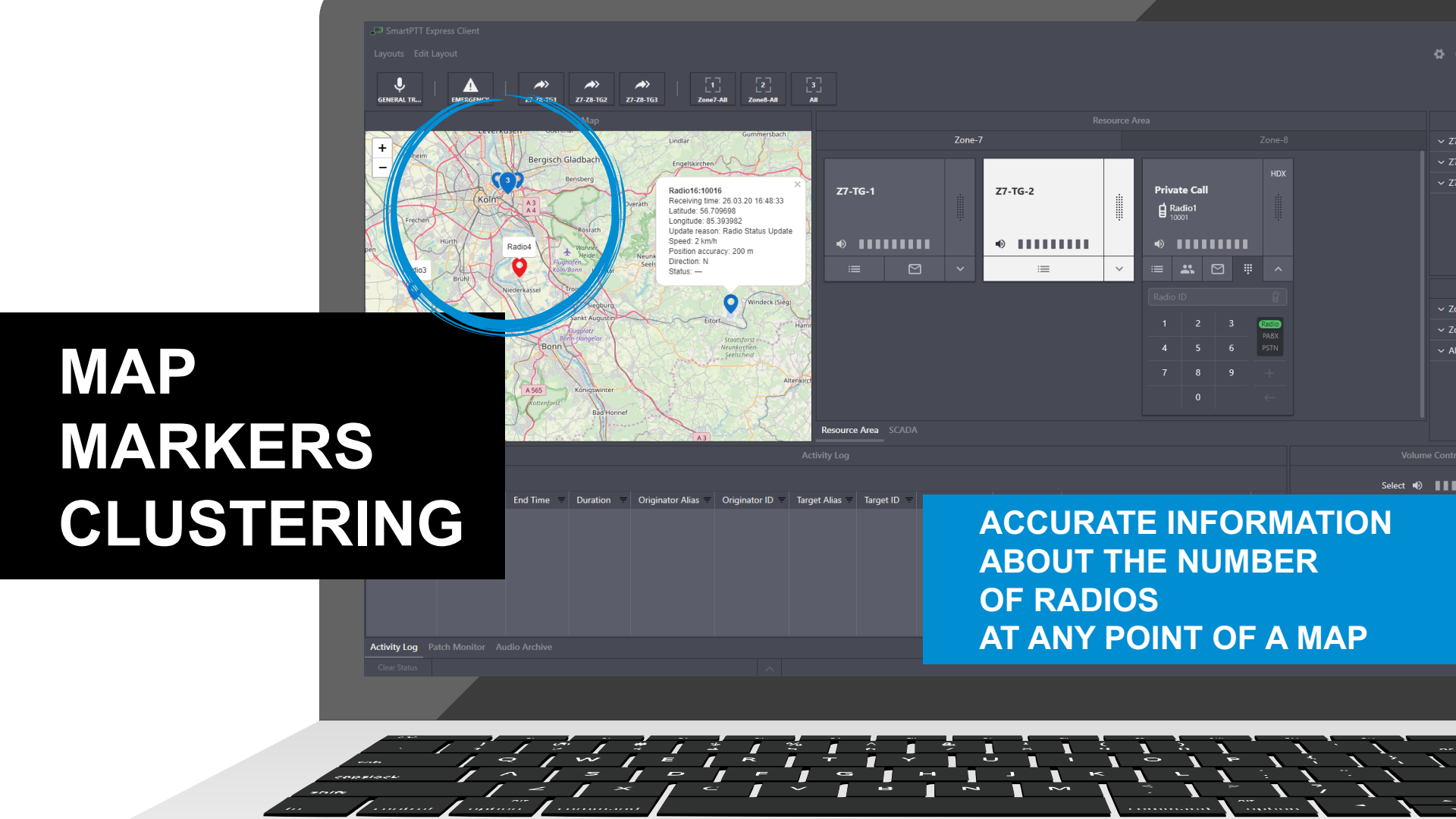
GROUP AND INDIVIDUAL TEXT MESSAGES WITH DELIVERY AND READ REPORTS

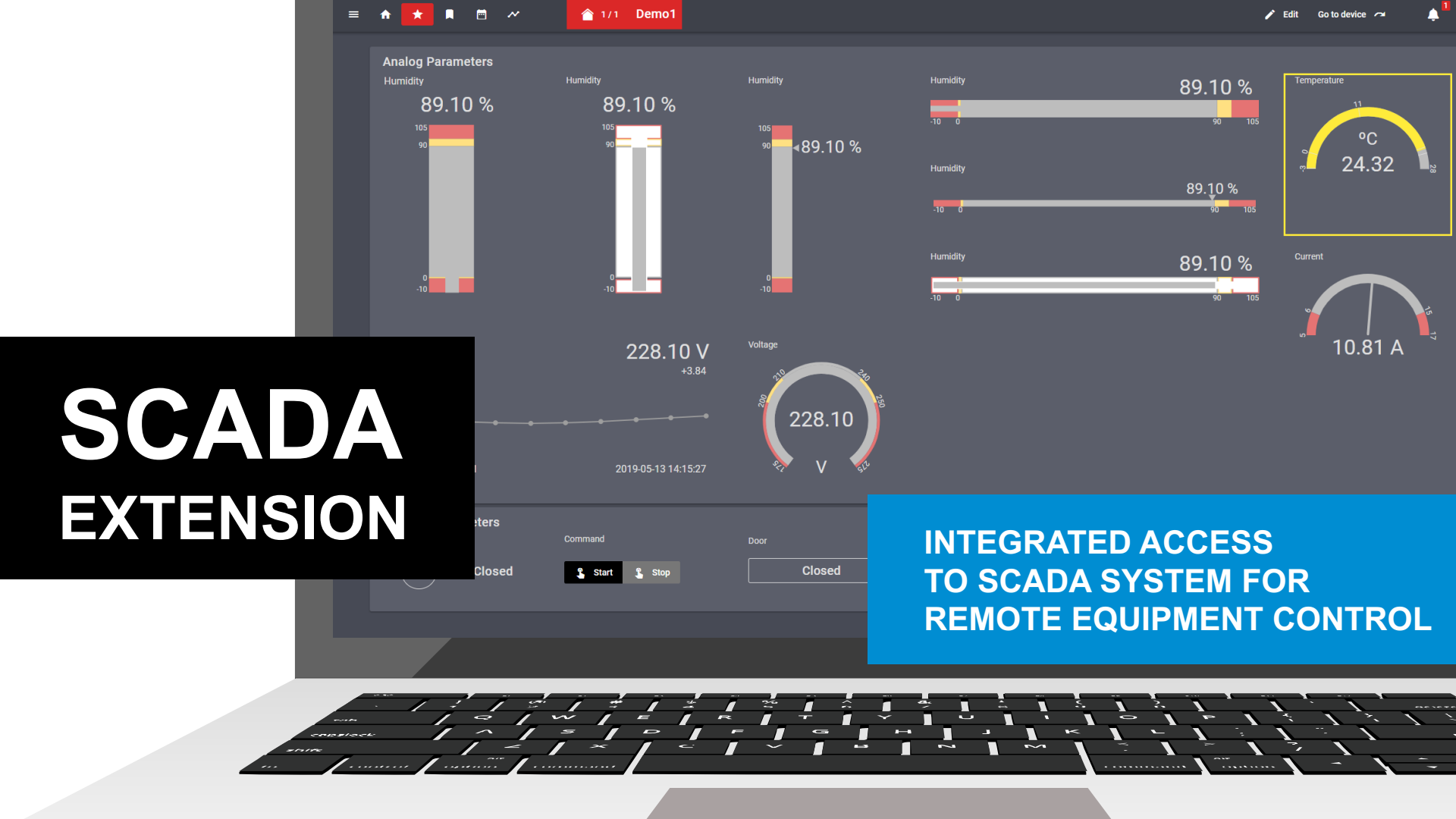



VOICE
RECORDING
Layouts
Edit Layout
Tab 1
2
Private Call
HDX
CALL LOG
S3-Radio-D
3/28 7:31:14 PM
00:20
S3-Radio-D
3/28 7:30:36 PM
00:32
Police Dpt
CALL LOG
Dispatcher 1
3/28 7:36:47 PM
00:02
S3-Radio-D
3/28 7:36:40 PM
00:06
S3-Radio-D
3/28 7:36:17 PM
00:03
S3-Radio-D
3/28 7:36:11 PM
Dispatcher 1
S3-Radio-D
Audio Archive
Resource
Time
Originator
Target
Duration
Emergency
Police Dpt
7:36:47 PM
Dispatcher 1
Police Dpt
00:03
Police Dpt
7:36:40 PM
S3-Radio-D
Police Dpt
00:05
Police Dpt
7:36:17 PM
S3-Radio-D
Police Dpt
00:02
Police Dpt
7:36:04 PM
S3-Radio-D
Police Dpt
00:03
Emergency
Fire Dpt
7:31:55 PM
user4
Fire Dpt
00:30
Police Dpt
7:31:53 PM
S3-Radio-D
Police Dpt
00:08
Police Dpt
7:31:23 PM
Dispatcher 1
Police Dpt
00:08
Private Call
7:31:14 PM
S3-Radio-D
Dispatcher 1
00:08
Private Call
7:30:42 PM
Dispatcher 1
S3-Radio-D
00:07
Private Call
7:30:36 PM
S3-Radio-D
Dispatcher 1
00:06
Fire Dpt
7:30:03 PM
user4
Fire Dpt
00:30
Fire Dpt
7:29:57 PM
user4
Fire Dpt
00:06
Police Dpt
7:29:41 PM
S3-Radio-D
Police Dpt
00:23
Dpt
7:29:22 PM
S3-Radio-D
Police Dpt
00:10
7:27:13 PM
S3-Radio-D
Police Dpt
00:13
7:27:03 PM
S3-Radio-D
Fire Dpt
00:07
Map
Hyde Park
Serpentine Bridge
The Serpentine
Serpentine Road
Park Lane
Curzon Street
Green Park
A4202
Old Football Pitches
South Carriage Drive
Piccadilly Underpass
Hyde Park
Clock
7:36:54 PM
Volume Control
Select
Unselect
Microphone
Activity Log
Map
Clear Status
FILTER, SORT, REPLAY AND
EXPORT STORED RECORDS

LOCATION TRACKING

EXACT LOCATION OF THE RADIO SUBSCRIBERS DISPLAYED ON A MAP


MAP
MARKERS
CLUSTERING
ACCURATE INFORMATION
ABOUT THE NUMBER
OF RADIOS
AT ANY POINT OF A MAP
SmartPTT Express Client
Layouts
Edit Layout
Map
Resource Area
Zone-7
Zone-8
Z7-TG-1
Z7-TG-2
Private Call
Radio1
10001
HDX
Radio ID
Radio16:10016
Receiving time: 26.03.20 16:48:33
Latitude: 56.709698
Longitude: 85.393982
Update reason: Radio Status Update
Speed: 2 km/h
Position accuracy: 200 m
Direction: N
Status: —
Radio4
Bergisch Gladbach
Köln
Bonn
Resource Area
SCADA
Activity Log
End Time
Duration
Originator Alias
Originator ID
Target Alias
Target ID
Activity Log
Patch Monitor
Audio Archive
Clear Status
Select

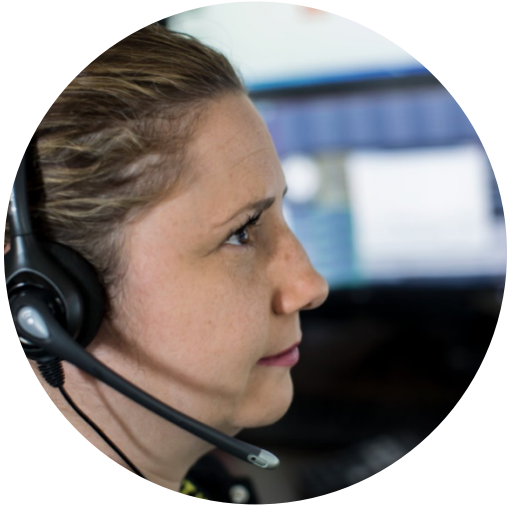

1 / 1
Demo1
Edit
Go to device
Analog Parameters
Humidity
89.10 %
Humidity
89.10 %
Humidity
89.10 %
Humidity
89.10 %
Humidity
89.10 %
Humidity
89.10 %
Temperature
°C
24.32
Current
10.81 A
228.10 V
+3.84
2019-05-13 14:15:27
Voltage
228.10
V
Command
Start
Stop
Door
Closed
Closed
SCADA
EXTENSION
INTEGRATED ACCESS
TO SCADA SYSTEM FOR
REMOTE EQUIPMENT CONTROL

CUSTOMIZATION

SmartPTT Express is developed for people and for the moments that matter

USER INTERFACE

Convenient and efficient dispatcher’s workspace



1. **Customizable user interface**
   Flexible adjustment of any element’s availability and arrangement
2. **Volume fine tuning**
   Adjust volume level to be focused on ongoing conversation
3. **External PTT devices**
   Make response as quick as possible using dedicated devices
4. **All in one solution**
   Integrated voice calls, voice recording, location based services
5. **Multi-language interface**
   English, German, Spanish, French, Portuguese, Russian, Italian, Chinese

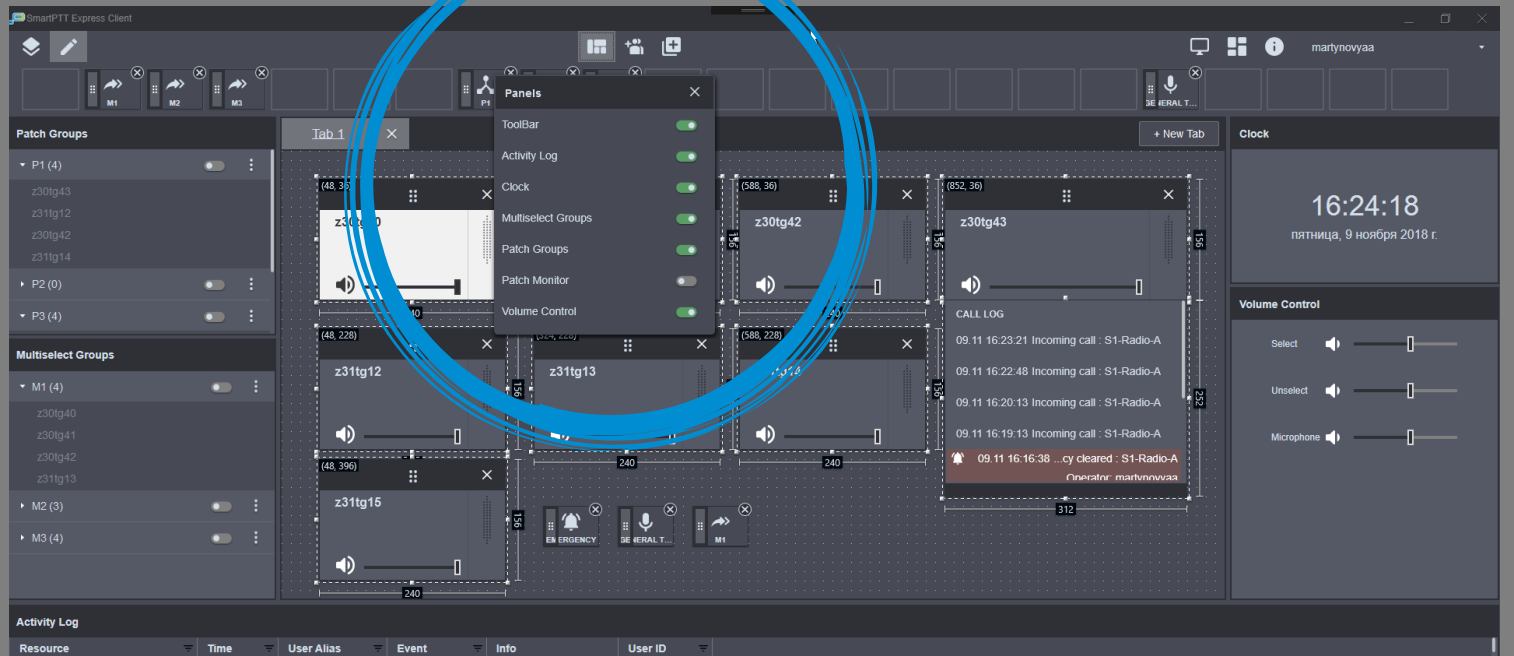
DISPATCH CONSOLE CUSTOMIZATION

FLEXIBLE ADJUSTMENT OF ANY ELEMENTS

FLEXIBLE ADJUSTMENT
OF ANY ELEMENTS' AVAILABILITY
AND ARRANGEMENT
EDITING
MODE
Layouts
Close Editing
Panels
Resources
Buttons
Multiselect Groups
M1 (0)
M2 (0)
Clock
Activity Log
Audio Archive
Volume Control
Select
Unselect
Microphone

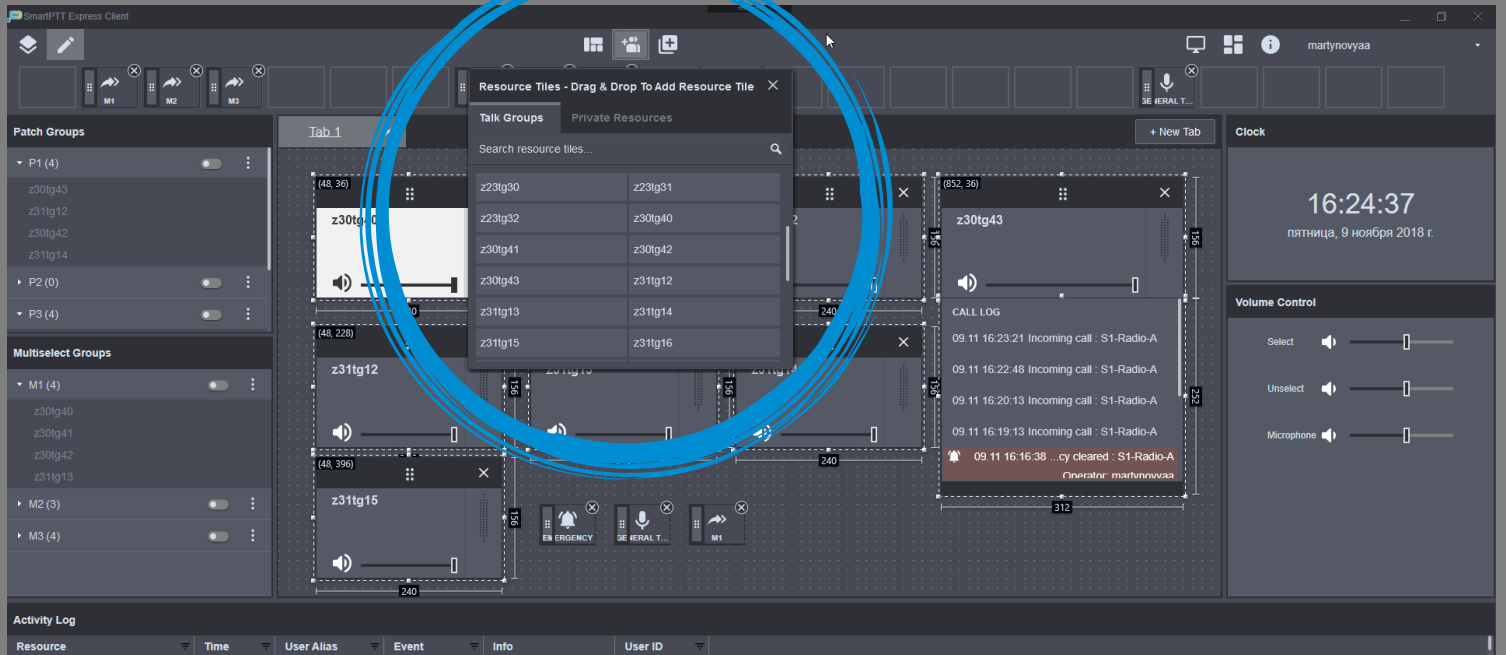
EDITING MODE

ADD PANELS



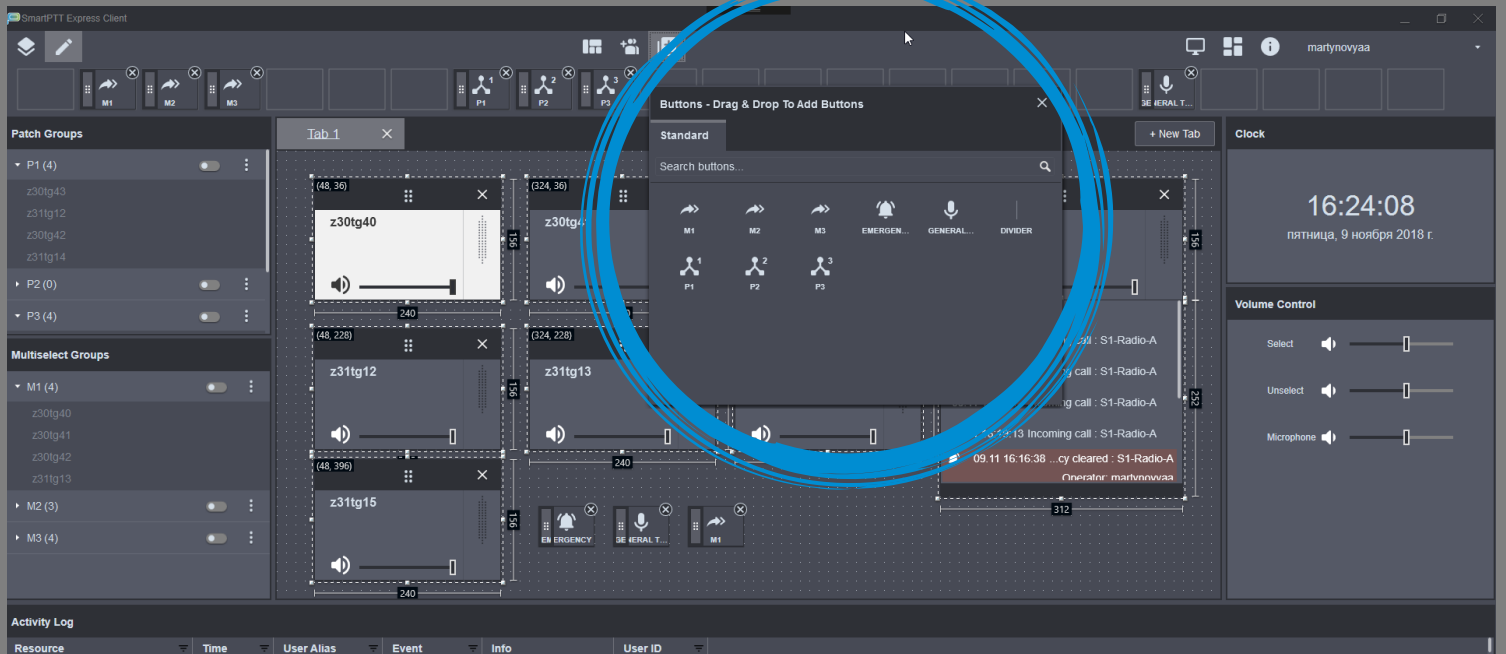
EDITING MODE

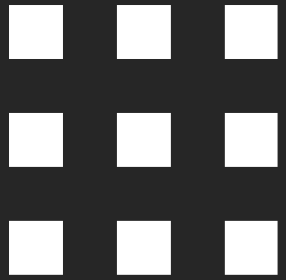
ADD RESOURCES



EDITING MODE

ADD BUTTONS



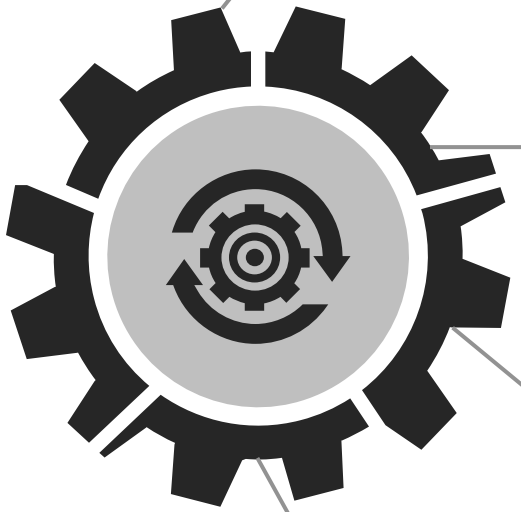


DISPATCH CONSOLE DEPLOYMENT

ROLE-BASED CUSTOMIZATION

SIMPLE CONFIGURATION & DEPLOYMENT

QUICK START OF THE SYSTEM



Configure DIMETRA™ system

15 minutes to get system up and running

Deploy and configure SmartPTT Express

Automatic configuration synchronization with DIMETRA™

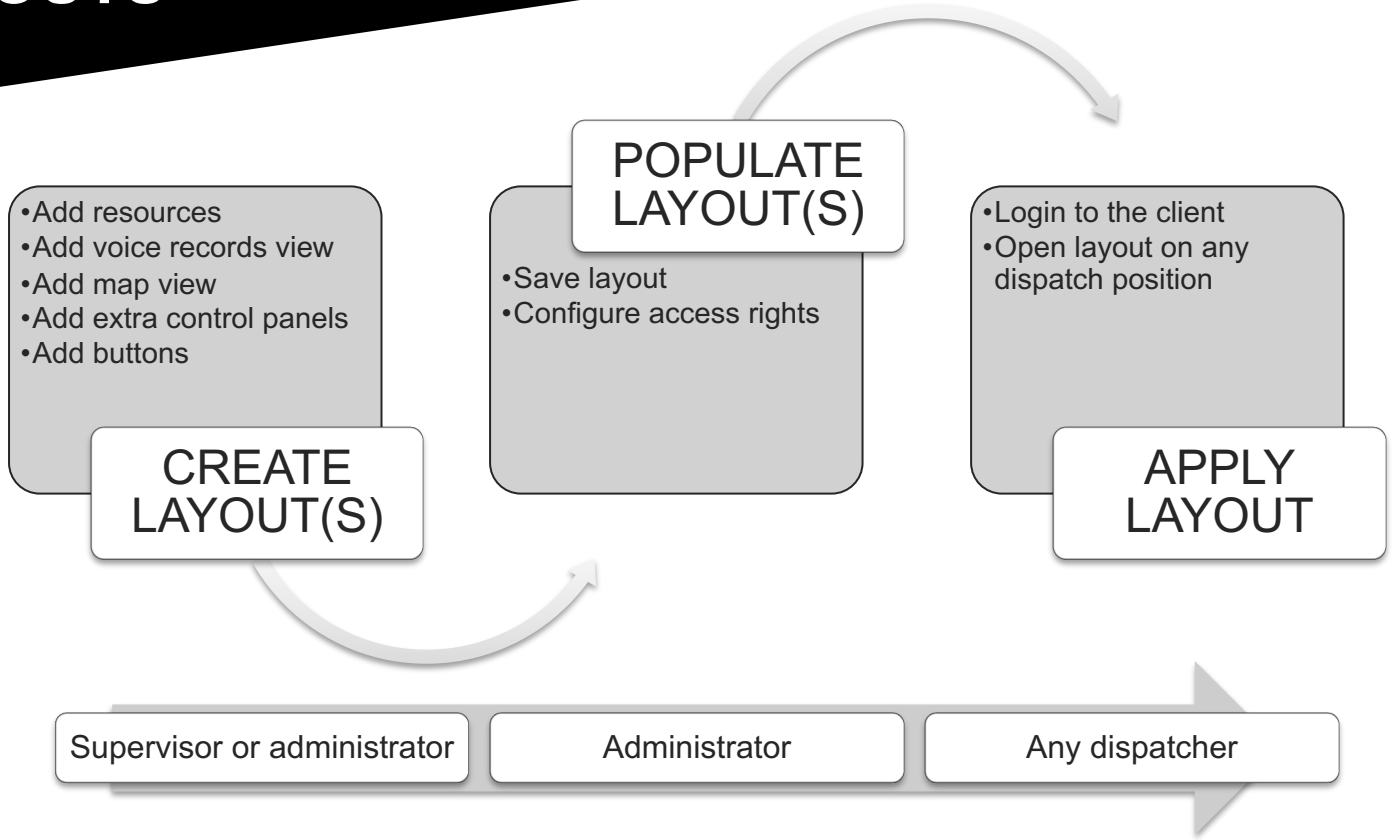
Deploy UI layout

Create and distribute custom UI layout through the team

Configure the system remotely

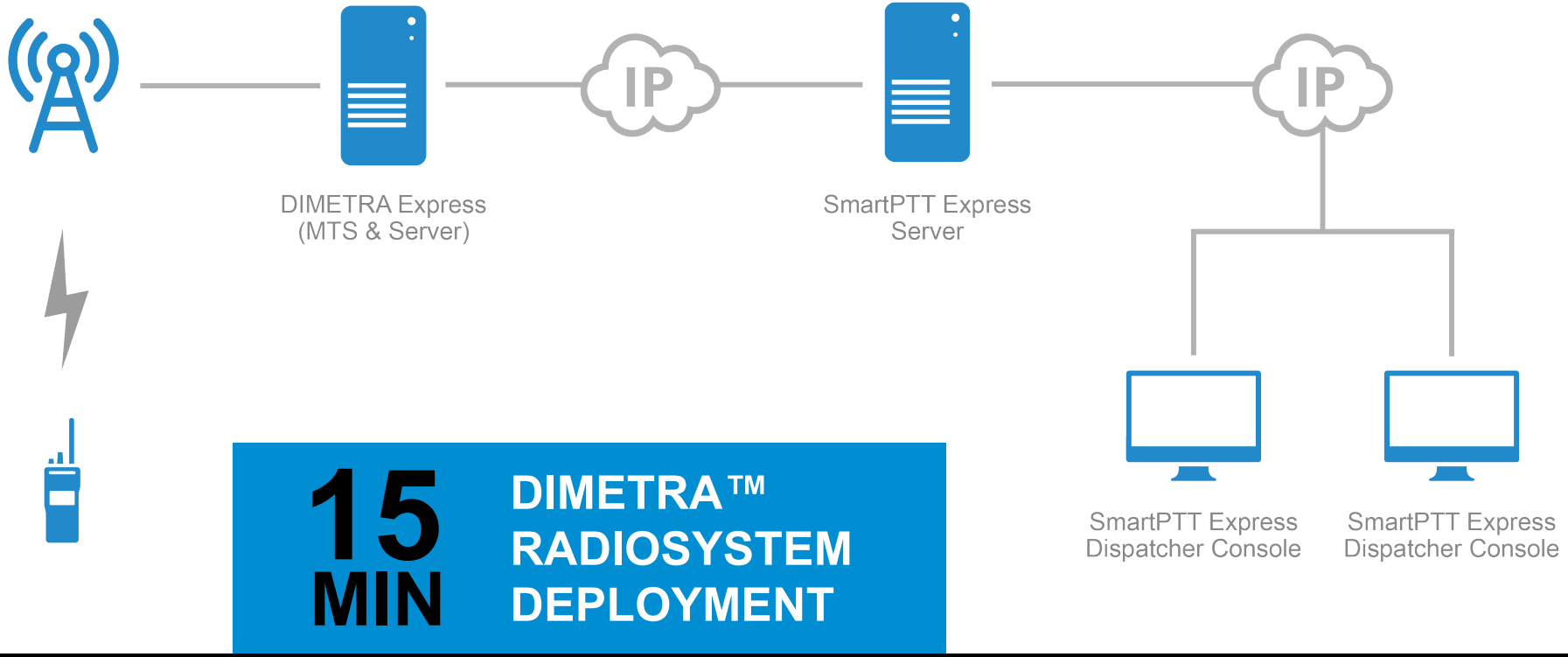
via SmartPTT Express Configurator installed on your computer

EASYLY CREATE AND DEPLOY UI LAYOUTS

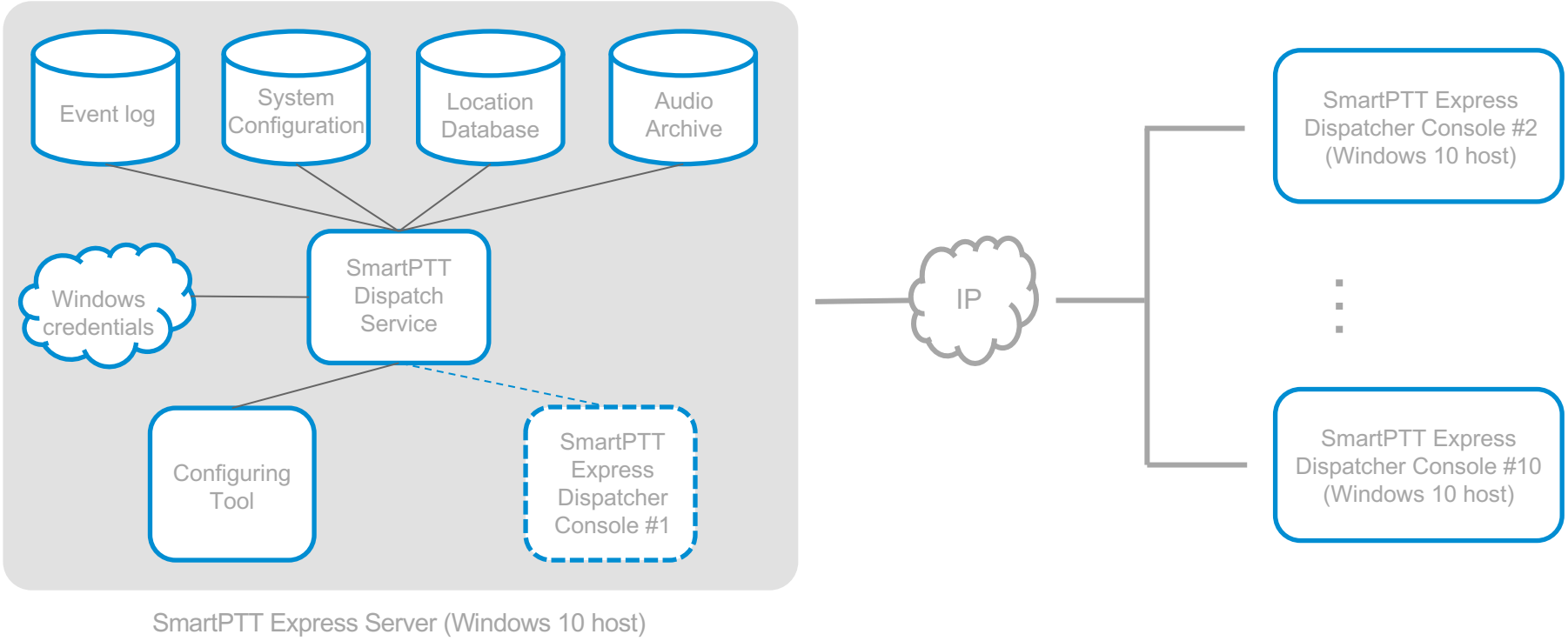


SYSTEM ARCHITECTURE

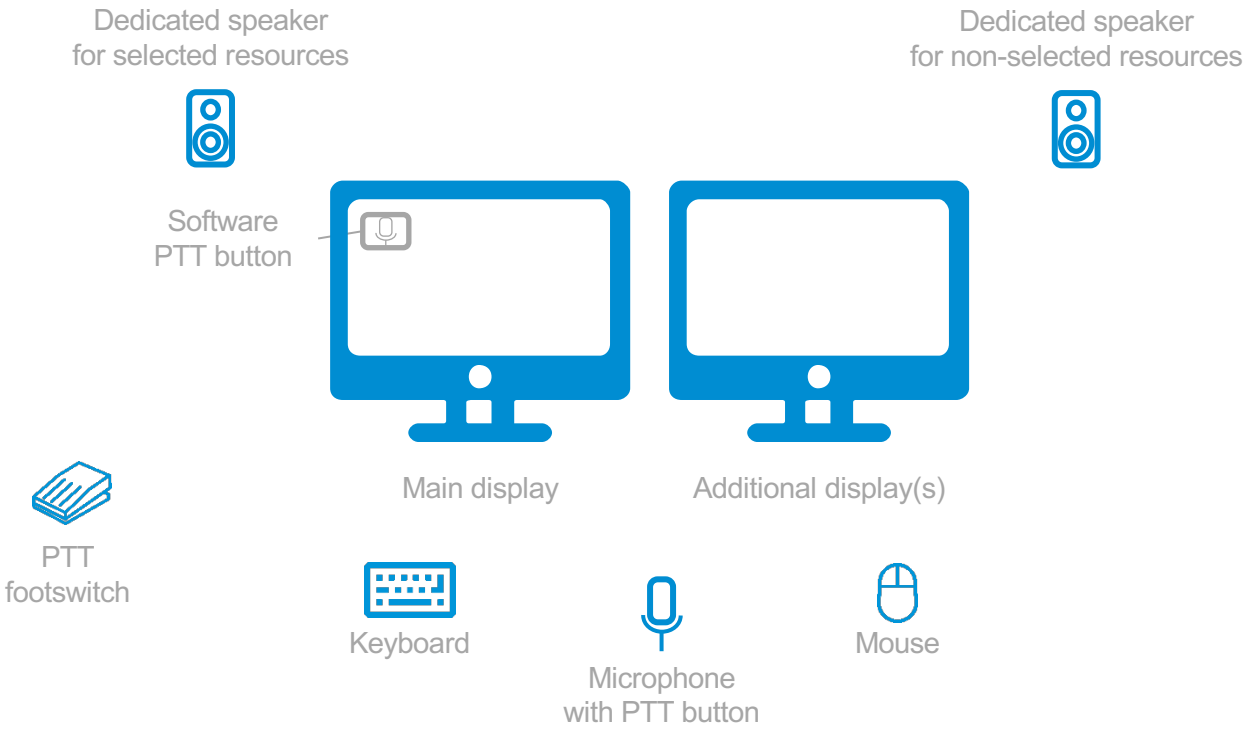
System, software and dispatch position structure



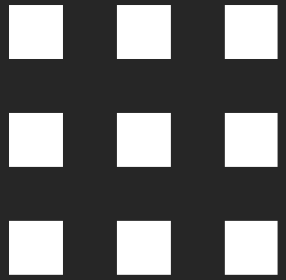
SYSTEM ARCHITECTURE



DETAILED SOFTWARE ARCHITECTURE



DISPATCH POSITION SET

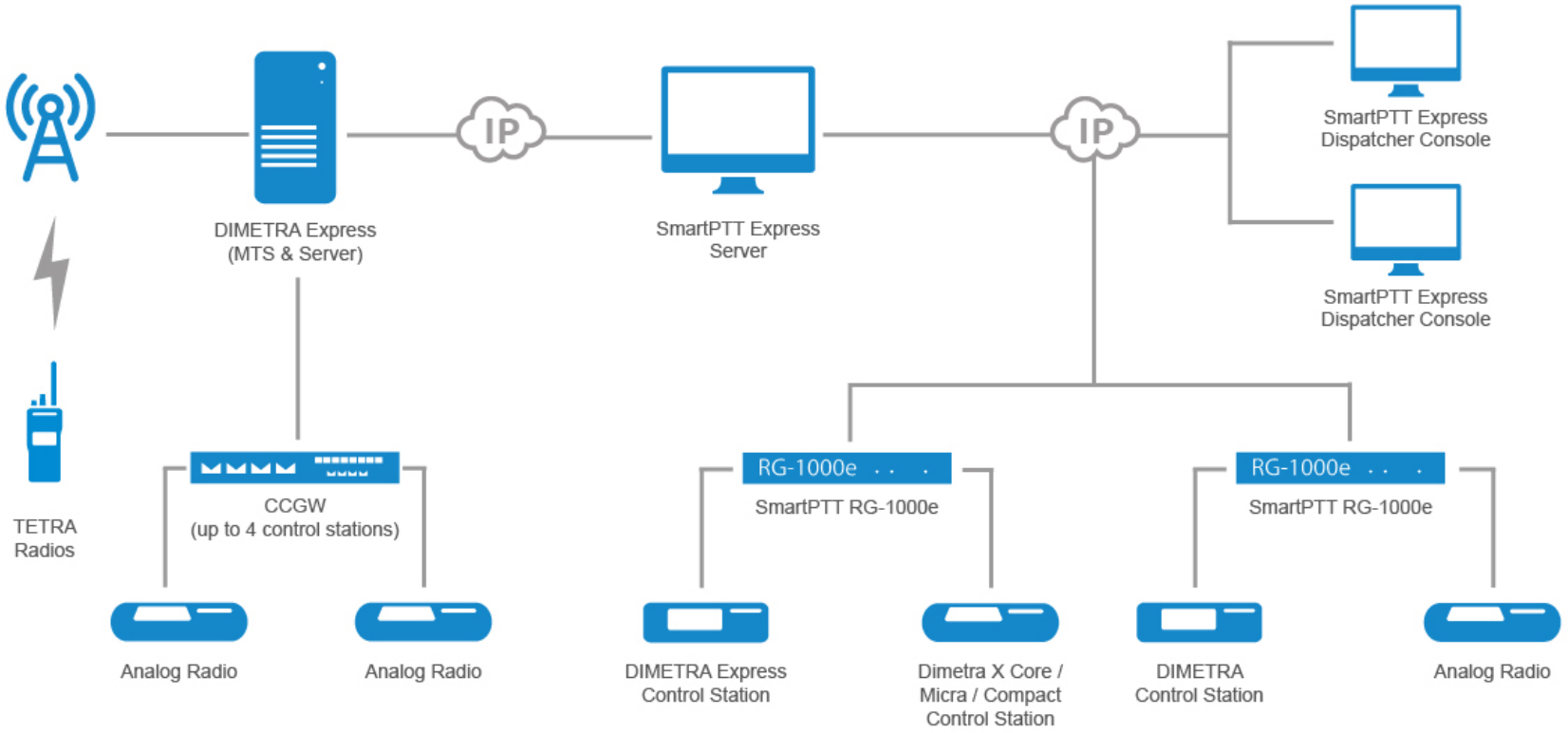


BRIDGING & INTEGRATION

RADIO SYSTEM INTERCONNECT

RADIO GATEWAY

RG1000e bridged DIMETRA™ and other digital or analog systems



CONNECTION VIA CCGW AND RG-1000e

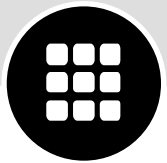
OUTGOING AND INCOMING VOICE CALLS

AUDIO RECORDING

BRIDGING

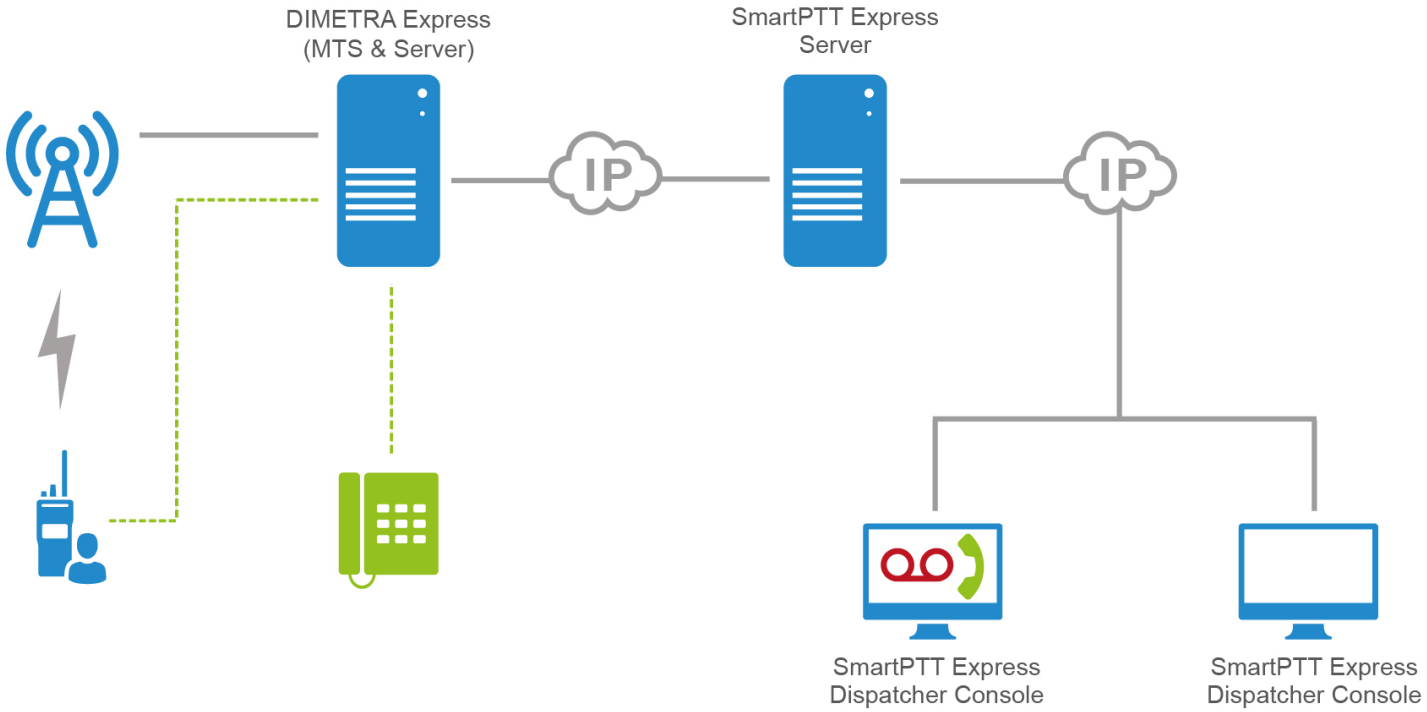
(for RG-1000e only)

MULTISELECT GROUPS AND PATCH GROUPS



ANALOG RESOURCES DISPATCHING

Voice Recording of Conversations Between DIMETRA™ Subscribers and Telephone Users



DIGITAL AUDIO RECORDING
FOR TELEPHONY AND ANALOG RESOURCES

WHY & WHERE

DIMETRA™ AND SMARTPTT SYSTEM APPLICATION

DIMETRA™ SMARTPTT EXPRESS

ROBUST AND RELIABLE COMMUNICATIONS

SIMPLIFIED COORDINATION OF DAY-TO-DAY OPERATIONS

CONVENIENT AND EFFICIENT DISPATCHER’S WORK

PERSONNEL CONTROL AND SAFETY

EASY RADIO SYSTEM CONFIGURATION AND MAINTENANCE

DIMETRA™ SMARTPTT EXPRESS

SmartPTT

MORE INFO?

VISIT OUR WEBSITE
SMARTPTT.COM

NEED A DEMO?

SEND A REQUEST
SALES@SMARTPTT.COM

WANT TO ORDER?

CONTACT US
SALES@SMARTPTT.COM