



Coral Springs Police and Fire Radio System



Presented by:
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Coral Springs Radio System

Background: 2005

2005

- The P25 Standard had become the adopted technology path by the Public Safety Industry.
- Coral Springs' radio system had reached its “end of life.”
- Coral Springs began steps to procure new P25 compatible portable radios.

Coral Springs Radio System

Background: 2013

January 2013

The City of Coral Springs retained RCC Consultants, Inc. to:

- Conduct an independent assessment of the City's:
 - Public safety radio communications system
 - Operating environment and requirements
- Recommend the best solution to include:
 - Compliance with current industry standards
 - APCO Project 25 (P25)
 - Interoperability
 - Remaining out of the regional radio system

Coral Springs Radio System

Background: 2013

April 2013

Summary of RCC Findings:

The City of Coral Springs' Motorola Legacy 800 Trunked Radio System was 15 years old.

- In 2005 critical components had reached “end of life” and were no longer supported.
- Equipment that was no longer supported was being repaired based on “best efforts” and part availability.
- System restoration was not guaranteed and could impact service for extended periods.

Coral Springs Radio System

Background: 2013

Summary of RCC Findings continued:

- Because Coral Springs' radio had reached end of life, the City was concerned about Broward County's migration to P25 in the 2018 - 2020 timeframe.
- Coral Springs could maintain a stand alone radio system with interoperability with neighboring jurisdictions, while enjoying enhanced system benefits.

Coral Springs Radio System

Background: 2015 Radio Upgrade

System Components after 2015 Radio Upgrade:

- Radio was upgraded to a P25 Standard system, providing complete interoperability with regional system.
- Radio consoles in the Communications Center were upgraded to the P25 Standard as well.
- Enabled enhanced GPS providing for first responder safety and closest police and fire unit response.

Coral Springs Radio System

Background: 2015 Radio Upgrade

System Components after 2015 Radio Upgrade continued:

- Six new portable repeaters for the Fire Department were added to boost in-building coverage.
- For optimal radio coverage, Microwave loop dishes were strategically placed on three (3) radio tower locations:
 - Coral Springs
 - Margate
 - Coconut Creek

Coral Springs Radio System

P25 Radio System Daily Activity

- New system has 83 Coral Springs talk groups, any of which can interoperate with the regional radio.
- Current Coral Springs Radio Users:
 - 1134 users on the Coral Springs P25 Radio System.
 - This includes Public Safety and Local Government
 - Fire Station Alerting System
- Daily average capacity usage of Coral Springs' P25 radio system is between 18% – 19%.

Coral Springs Radio System

P25 Radio System Daily Activity

Talk Group Assignment for Coral Springs Police:

- One (1) Law main talk group
 - One (1) Law teletype talk group
 - Two (2) tactical talk groups
 - Sixteen (16) additional talk groups for special operations
-
- Bravo Shift- minimum of 15 Patrol, Detectives, Specialty Units, Command Staff = 60+ users daily.
 - Alpha Shift- minimum of 15 Patrol and Specialty Units.

Coral Springs Radio System

P25 Radio System Daily Activity

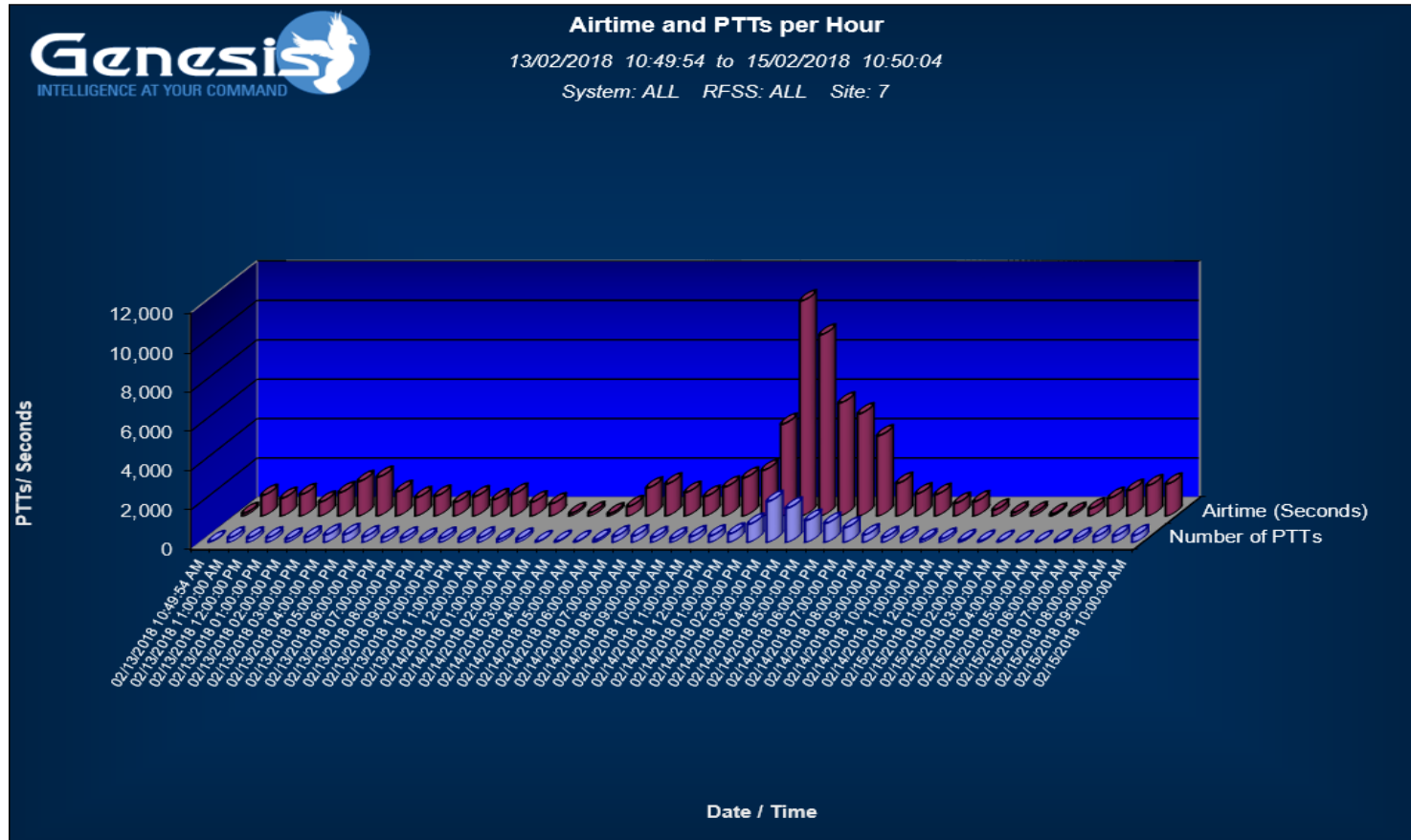
Talk Group Assignment for Fire:

- One (1) Fire main talk group
 - Five (5) tactical talk groups
 - Six (6) additional talk groups for special operations / training
-
- Eight fire stations, fire administration and inspections = 50+ users daily in addition to law enforcement users.
 - Note: Local government users add another 90+ users daily.

Coral Springs Radio System

P25 Radio System Daily Activity

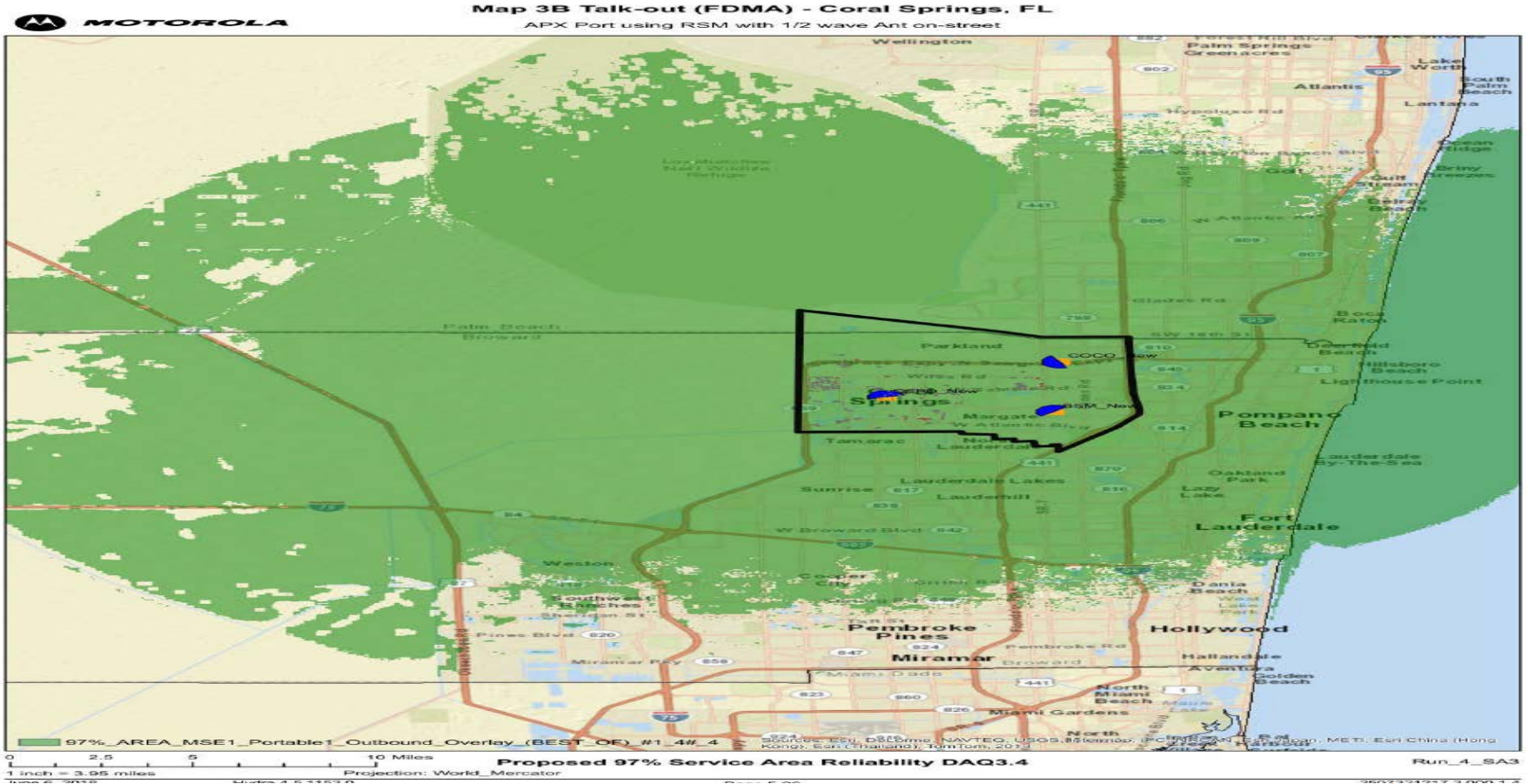
Normal system activity is below 3000 push to talks on average at peak times.



Coral Springs Radio System

P25 Radio Coverage Map

Radio coverage allows Coral Springs' system to interoperate with the County's



Coral Springs Radio System

Patching Radios

Our P25 radio is interoperable with the County's via patching, a common industry practice.

- A **Patch Group** is a group of linked talk groups that allows radio users to communicate with each other while on separate radio systems.
- Think of a patch as a three way conference call.
- When radio talk groups are patched, all patched users can hear all radio traffic and transmit across both systems.
- On Feb 14- Channel 14 Joint OPS2 was available- Not practical to ask all responding units to manipulate their radios to find the channel. Patching is the easiest solution.



Coral Springs Radio System

Patching Radios: Dispatcher Console Screen

CORAL SPRINGS FEB 2018 - Motorola MCC 7500 Elite Dispatch

Configuration Edit View Features Folders Page Help

MOTOROLA

18:00:57

Police Fire Utilities-PW Broward Police-Fire

BCM-12-JOP1
SN26-2327
PTT ID

BCM-12-JOP2

BCM-12-JOP3

BCM-12-JOP4
RCC-SN813
PTT ID

BCM-12-JOP5
RFL-144
PTT ID

BCM-12-JOP6

BCM-12-JOP7

BCM-12-JOP8
SN27-29140
PTT ID

BCM-12-JOP9

BCM-12-JOP10

BCM-12-JOP11
BSO-P8015P
PTT ID

BCM-12-JOP12

BCM-12-JOP13

BCM-12-JOP14

BCM-12-JOP15

BCM-12-JOP16
RCC-SN811
PTT ID

Moto-TEST

BCM-14-CALL

BCM-14-OPS1

BCM-14-OPS2
BSO-104NEJ
PTT ID

BCM-14-OPS3
J001-04Mep0
PTT ID

BCM-14-OPS4
BSO-12576
PTT ID

BCM-14-OPS5
BSO-10603
PTT ID

BCM-14-OPS6
730124
PTT ID

BCM-14-OPS7

BCM-14-OPS8

BCM-14-OPS9

BCM-14-OPS10

BCM-14-OPS11
BSO-8882
PTT ID

BCM-14-OPS12
BSO-9196
PTT ID

BCM-14-OPS13

BCM-14-OPS14
BSO-14648
PTT ID

BCM-14-OPS15
BSO-8025
PTT ID

BSO-02-DISP
BSO-8968
PTT ID

BSO-03-DISP
BSO-8491
PTT ID

BSO-04-DISP
PP27-36735
PTT ID

BSO-05-DISP
SN24-29741
PTT ID

BSO-06-DISP
BSO-12576
PTT ID

BSO-07-DISP
BSO-17673
PTT ID

BSO-08-DISP
BSO-10592
PTT ID

BSO-09-DISP
BSO-17648
PTT ID

BSO-10-DISP
PP31-35253
PTT ID

BSO-11-AREA1
CK01-27741
PTT ID

BSO-11-AREA2
CK02-27842
PTT ID

CS-ALERT

SNP-DISP
SNP-LUCE
PTT ID

SNP-TTY
SNP-BAUTIS
PTT ID

SNP-TAC
SNP-REASB
PTT ID

BSO-08-BHAYC
BSO-15300
PTT ID

CS-NPS-EMER

CS-PRKL-PW
CS-7855311
PTT ID

CKD-MAIN
MSP-BURNS
PTT ID

CKD-TACT
CKD-MOLYN
PTT ID

PPP-MAIN
PP25-36680
PTT ID

BCM-CW-13
CK40-28424
PTT ID

BCM-CW-14
SN46-30823
PTT ID

BCM-CW-15
CK40-28424
PTT ID

BCM-CW-16
CK04-25122
PTT ID

Dispatch Door

Site 1 BRWD

Site 7 CRSP

Sally Port Open

Sally Port Close

Miscel 3
Patch 1

Patch 2
Police

Patch 3
Miscel 2

NPSPAC
CALL-90

PB-LE-EOC
PB-LE-COM

PB-FD-EOC

CSP-CALL
CK13-64170
PTT ID

CSP-JO-1

CSP-JO-2

CSP-JO-3

CSP-JO-4
BSO-781198
PTT ID

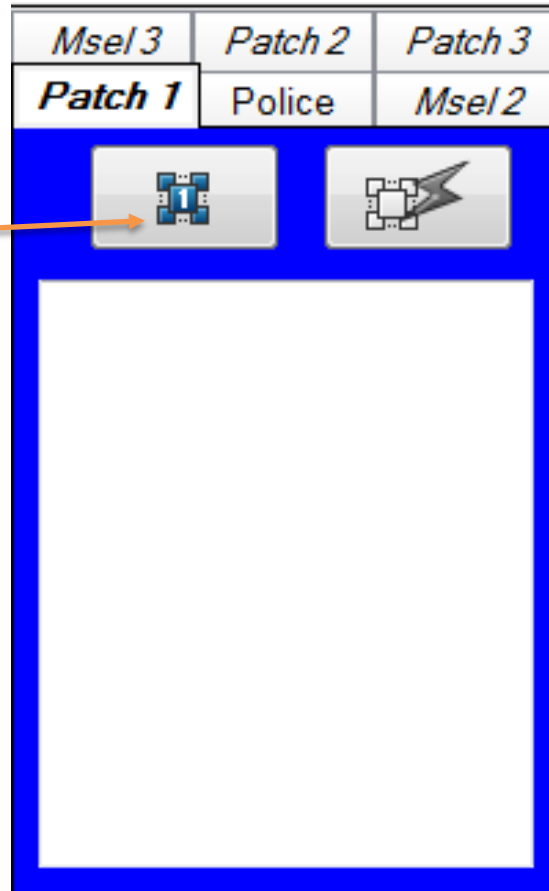
18:00
7/2/2018

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Patching Radios: Dispatcher Console Screen

Industry standard is for the host agency to initiate the Patch Groups

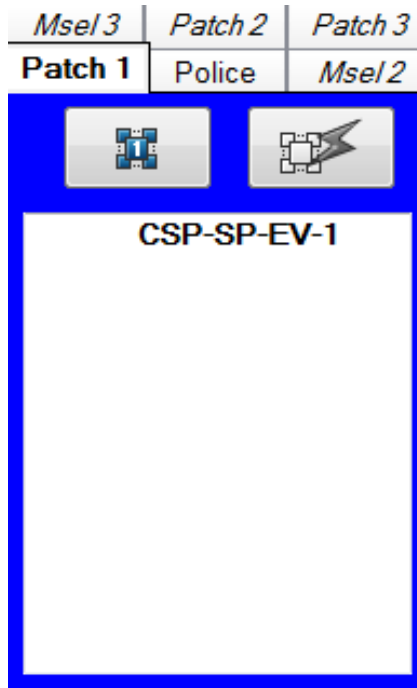
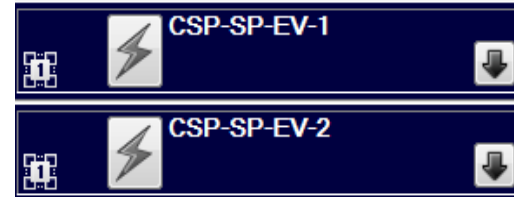
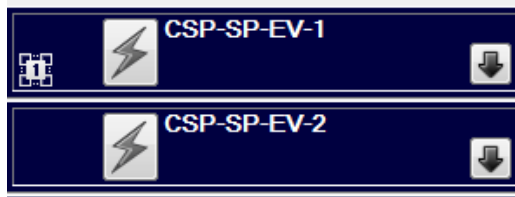
Select Patch Group
Screen and click



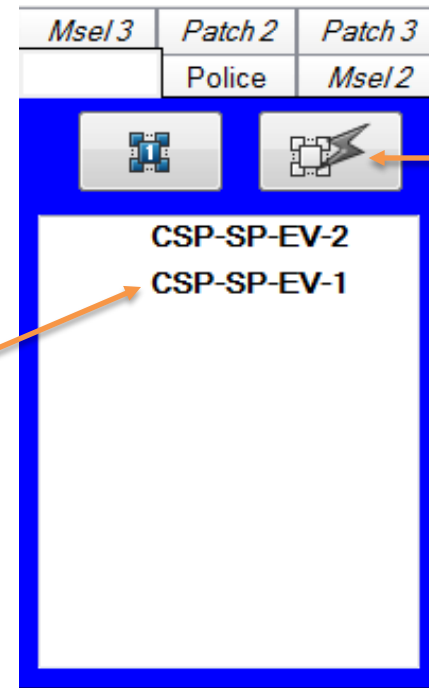
Coral Springs Radio System

Patching Radios: Dispatcher Radio Screen

To patch, a dispatcher selects the desired talk groups



When you are selecting the talk groups you desire to patch, the patch screen will update



Click for dispatcher to communicate with the First Responders. Dispatcher then engages multi-select feature to talk

Questions?

Questions may be directed to:

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