



DuPage Overview

Functionality Overview

Agenda



- Introduction
- MCC 7500 Consoles
- PSAP Responsibility
- NICE Recording Solution

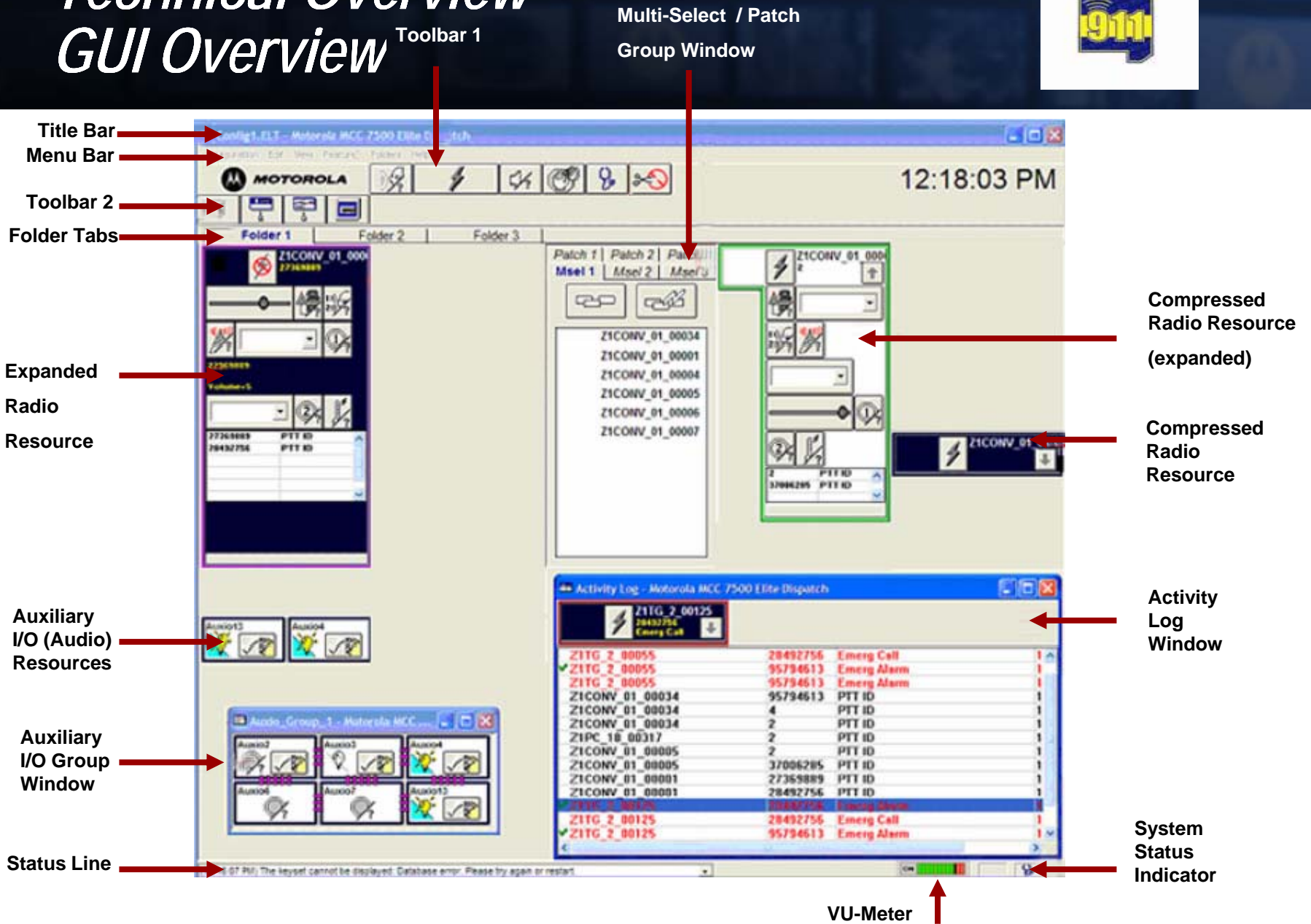
Introduction



Technical Overview MCC 7500 Consoles



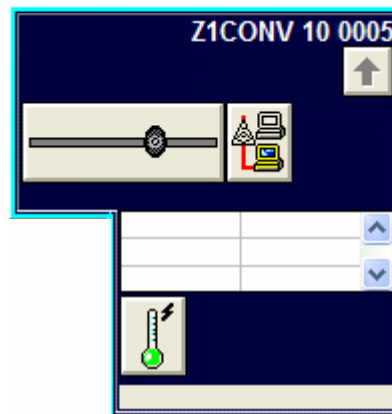
Technical Overview GUI Overview



Technical Overview Radio Resource Window



- Radio resource windows are configured in the Admin application.
- Features available for use with a radio resource can be added as buttons.
- To conserve space on the screen, some resource windows can be compressed.



Technical Overview MSEL Groups



The screenshot shows a software interface for managing MSEL Groups. On the left, there is a list of three fire resources: 'Fire 1', 'Fire 2', and 'Oakdale Fire'. Each resource has a lightning bolt icon, the name, and 'Volume=5' in yellow text, with a downward arrow on the right. On the right side, there are three buttons labeled 'Patch 1', 'Patch 2', and 'Patch 3'. Below these are three buttons labeled 'Msel 2', 'Msel 1', and 'Msel 3'. A green rectangular area highlights a section containing two buttons: one with a minus sign and a plus sign, and another with a lightning bolt and a plus sign. A white callout box with a yellow border points to this area, containing the text: 'Select the resources you want to add to the group.'

Technical Overview Patch Groups



The screenshot displays a software interface for managing patch groups. On the left, a vertical list of patch groups is shown, each with a lightning bolt icon and a gear icon:

- Mutual Aid
- EMS
- Fire 2
- Police South

The 'Police South' group is expanded, showing a 'Clear Tx' button, a signal strength indicator, a volume slider, and a lock icon. Below this are three smaller icons: a red cross, a thermometer, and a radio tower. At the bottom of the expanded group are two empty input fields.

On the right, a control panel includes buttons for 'Msel 3', 'Patch 2', 'Patch 3', 'Patch 1', 'Msel 1', and 'Msel 2'. Below these are two buttons with gear icons, one of which has a red lightning bolt. A list of active patches is shown below:

- Fire 2
- EMS
- Mutual Aid
- Police South

Technical Overview

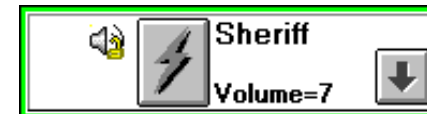
Responding to a Call



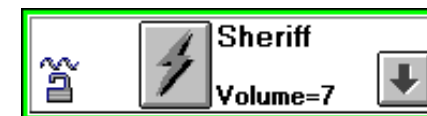
- To respond to a call, select the resource that contains the call indicator. The audio from the radio switches from the resource's unselect audio destination to its select audio destination (speaker or headset).
- If a console has been configured for Clear Audio, the clear audio receive indicator will appear on the resource.
- If a call is received in a different mode from the current transmit mode, the cross-mode alert indicator will appear on the resource. An operator should change the transmit mode to match the inbound transmission when this indicator appears.
- When a call is received in a hidden folder on the Dispatch desktop, one of the following call indications are visible on the folder tab of the hidden folder.



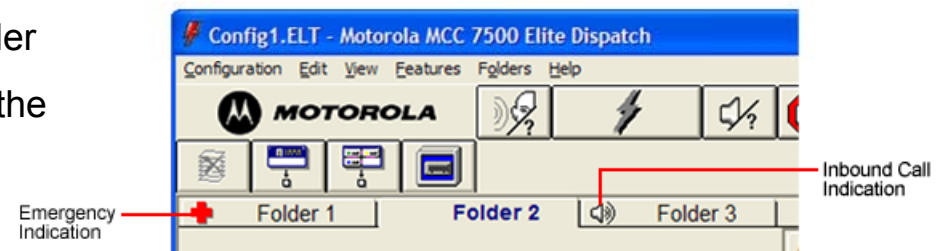
Resource with call indicator.



Resource with Clear Audio indicator.



Resource with cross-mode alert indicator.



Technical Overview

Transmit Mode Select



- Transmit Mode Select is a feature that permits the operator to select the transmit mode used for outbound transmissions on a specific resource.
- The transmit mode indicates whether transmissions are encrypted to prevent eavesdropping by unintended listeners.
- To change a resource's transmit mode, click the transmit mode select button to toggle to the desired mode of operation, either Digital Clear or Digital Coded.



Digital Clear transmit mode



Digital Coded transmit mode

Technical Overview

The VU-Meter



The VU-Meter at the bottom of the Dispatch main window provides a visual indication of audio input/output levels. Using the VU-Meter, a user can adjust the volume of the speakers or reposition the microphone for optimal audio levels.

VU-Meter display is determined by the Administrator. Your configurations may not include this feature.

The VU-Meter includes:

- An icon of the audio source, either receive (speaker) or transmit (microphone).
- Up to 11 LED units, 9 green and 2 red.

The number of LEDs in the indicator synchronizes with the loudness of the audio.



VU-Meter at Level 9 for transmit audio



VU-Meter at Level 9 for receive audio



VU-Meter at Level 10 for transmit audio

The red LED indicates the volume has exceeded the threshold level.

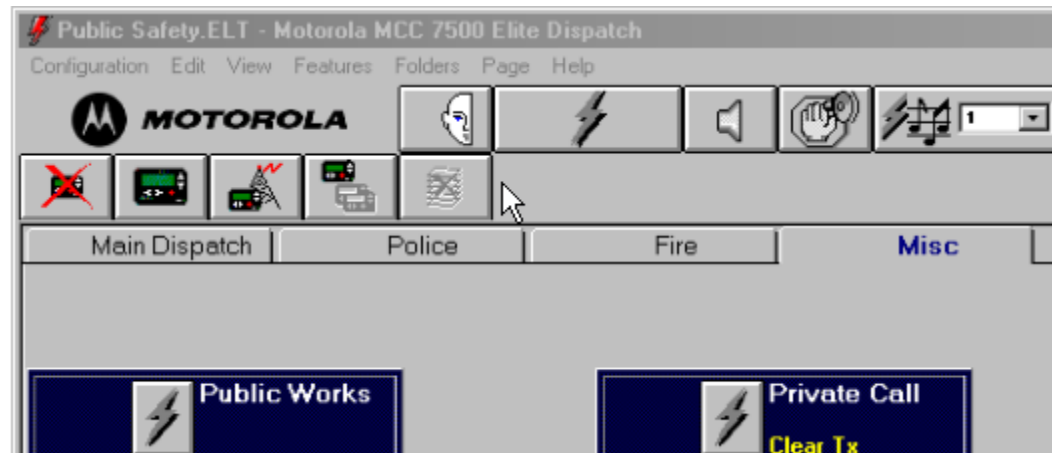
Technical Overview

Working with Folders



A configuration can contain up to six folders. Each folder contains a set of resources. A Dispatcher can modify folders in a configuration; however, any changes made will not be saved.

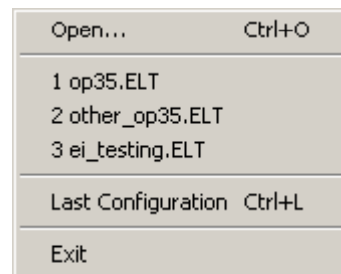
- ▶ Add Folder
- ▶ Delete Folder
- ▶ Add a Resource
- ▶ Delete a Resource
- ▶ Change a Folder Tab Width



Technical Overview Configurations



Configuration files are created by the system Administrator. They contain an arrangement of folders, resources and features for the console operator to use. Elite Dispatch configuration files include the extension “.ELT”. To open a file, select Configuration from the menu.



Select a configuration from a list.

Select a configuration from the last four files loaded on the console.

Reloads the most recently used configuration.

Exits the application.

Opening a new configuration automatically closes the current one. Keep in mind that closing a configuration will close all Multiselect and Patch groups.

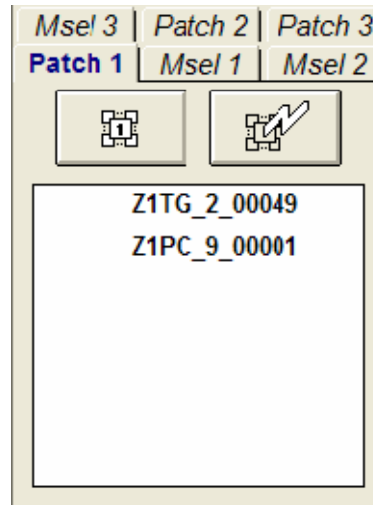
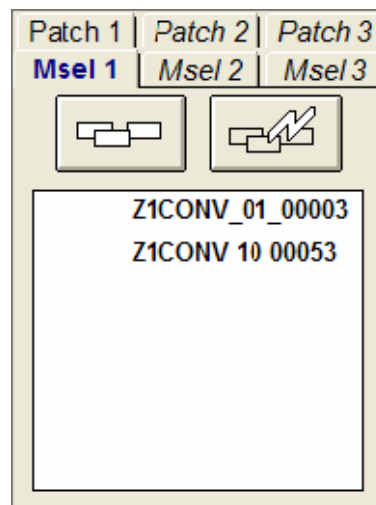
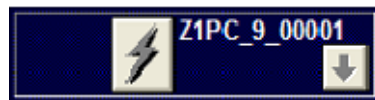
Any changes made to a configuration by dispatchers are temporary and remain in effect only until the operator exits the Elite Dispatch application. Only the Administrator can make permanent changes to configuration files.

Technical Overview

Transmit Priority Level



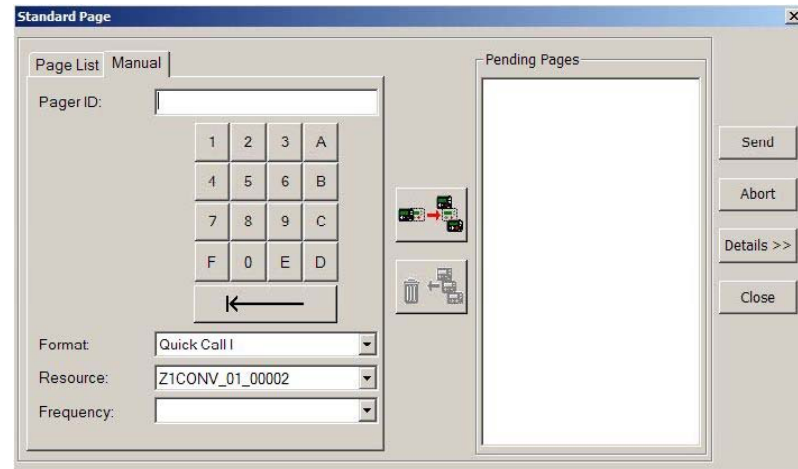
- Five Levels
 1. Primary Supervisor Instant Transmit
 2. Secondary Supervisor Instant Transmit
 3. Non-supervisor Instant Transmit
 4. General Transmit
 5. Patch Transmit



Technical Overview Integrated Paging Encoder

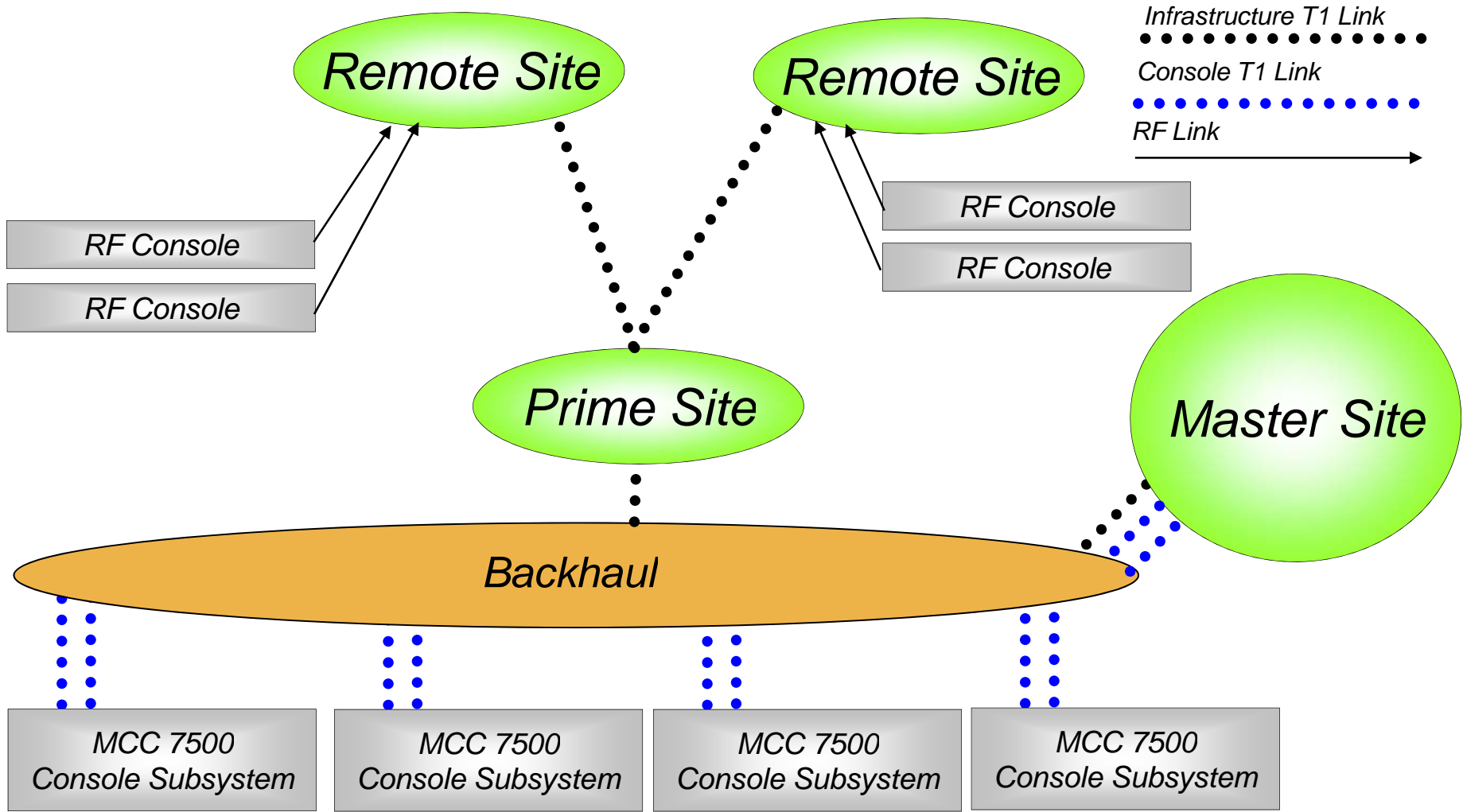


- Quick Call I
- Quick Call II B
- Quick Call II C
- Quick Call II D
- Quick Call II E
- DTMF Touch Code
- Knox Touch Code
- Single Tone 0.5
- Single Tone 1.5
- Motorola 5/6 Tone
- Digital Dial 1
- Digital Dial 2
- Digital Dial 3
- Call Alert



Technical Overview

System Overview

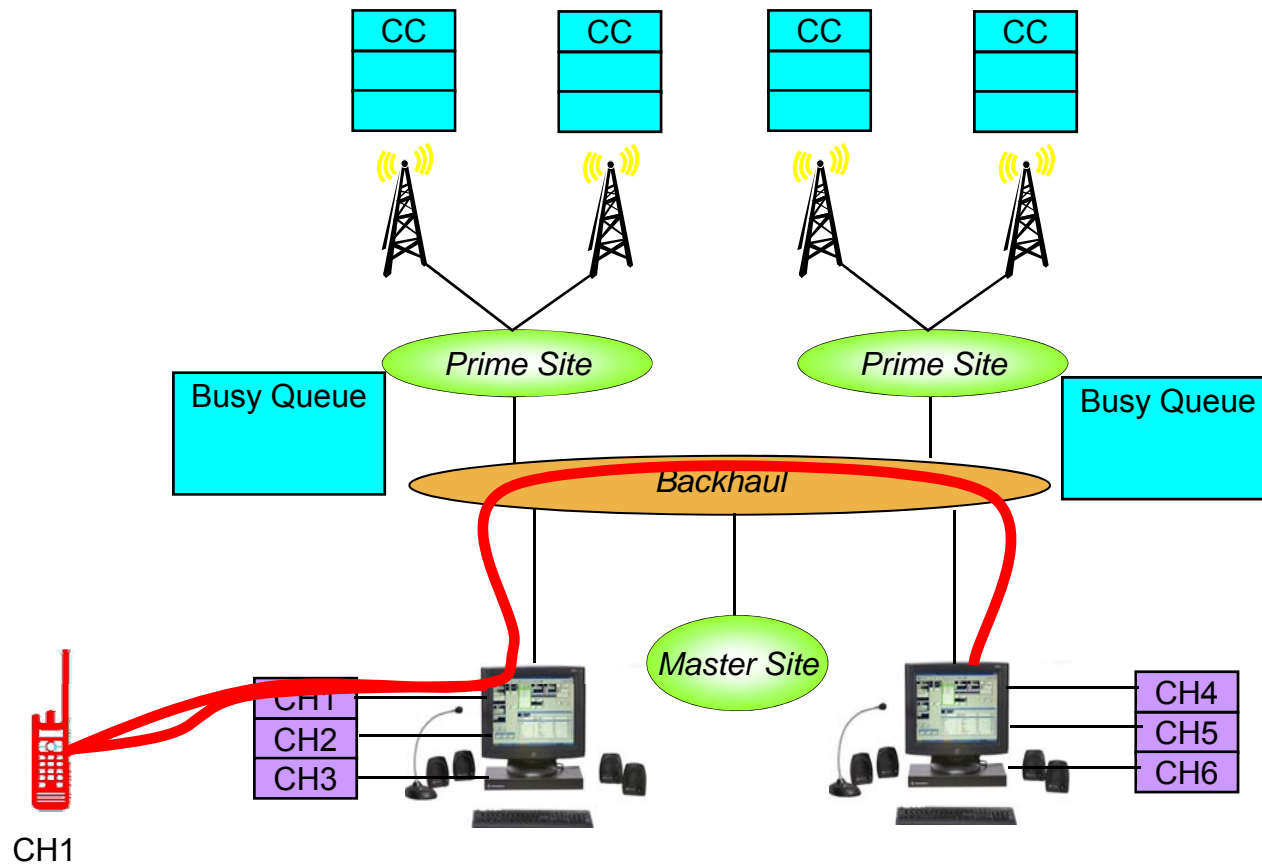


Call Scenarios

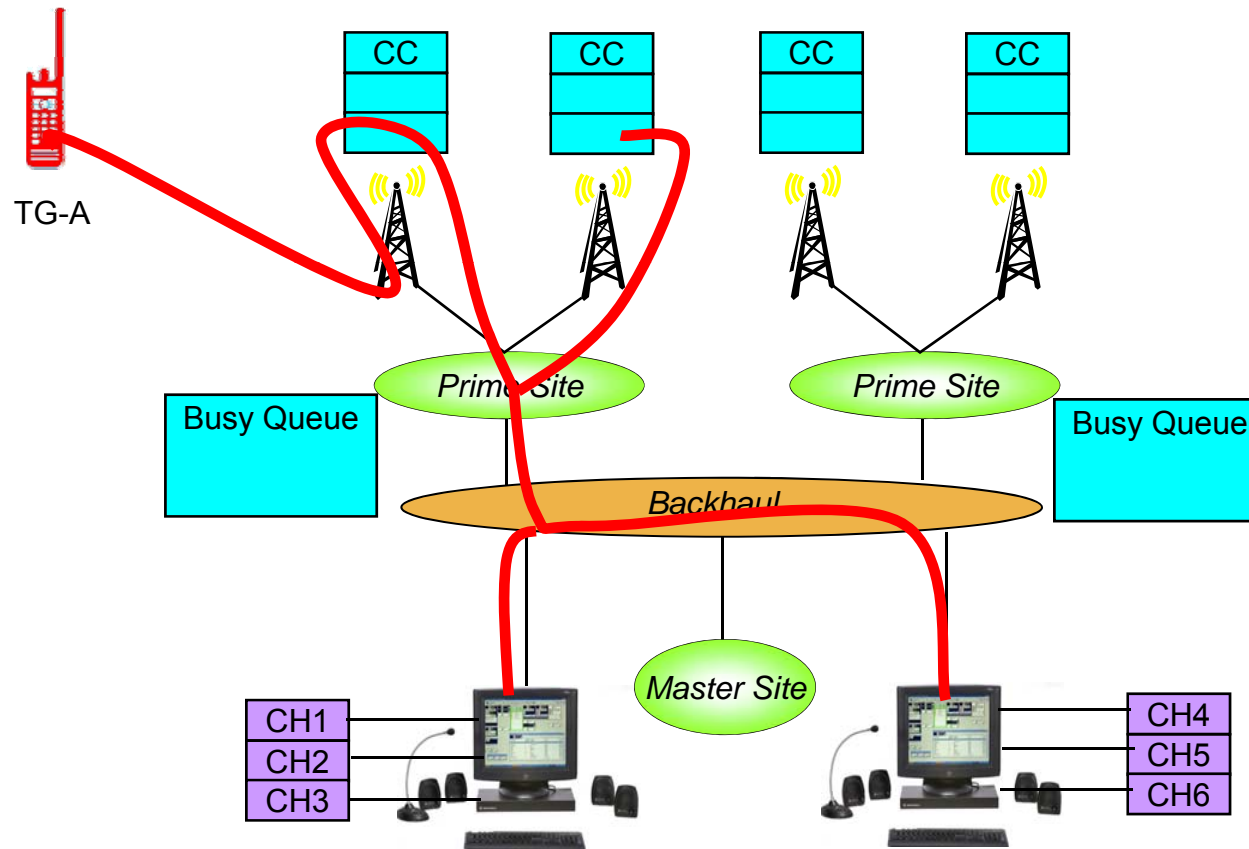


Call Scenarios

Conventional Call

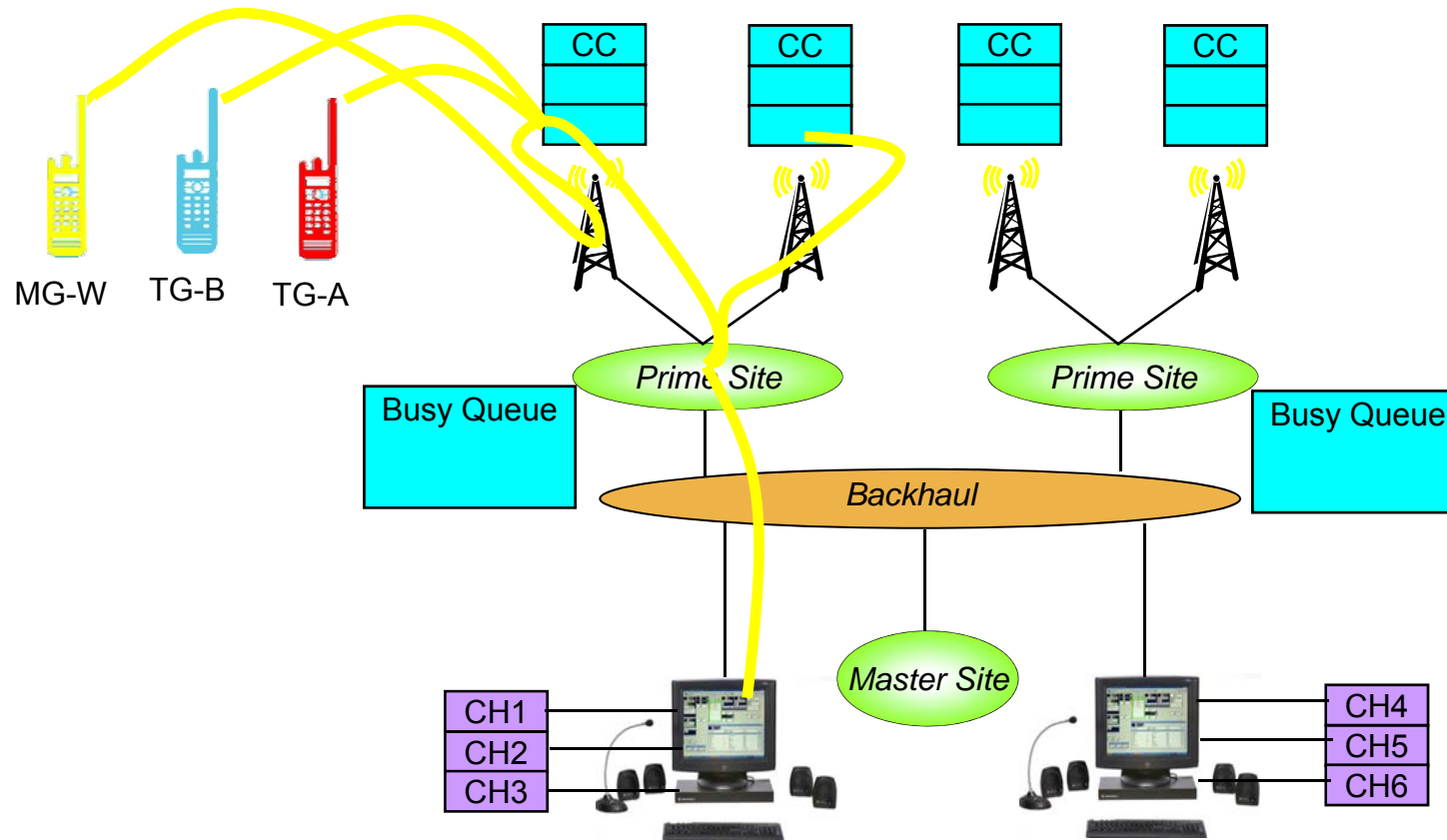


Call Scenarios Talkgroup Call

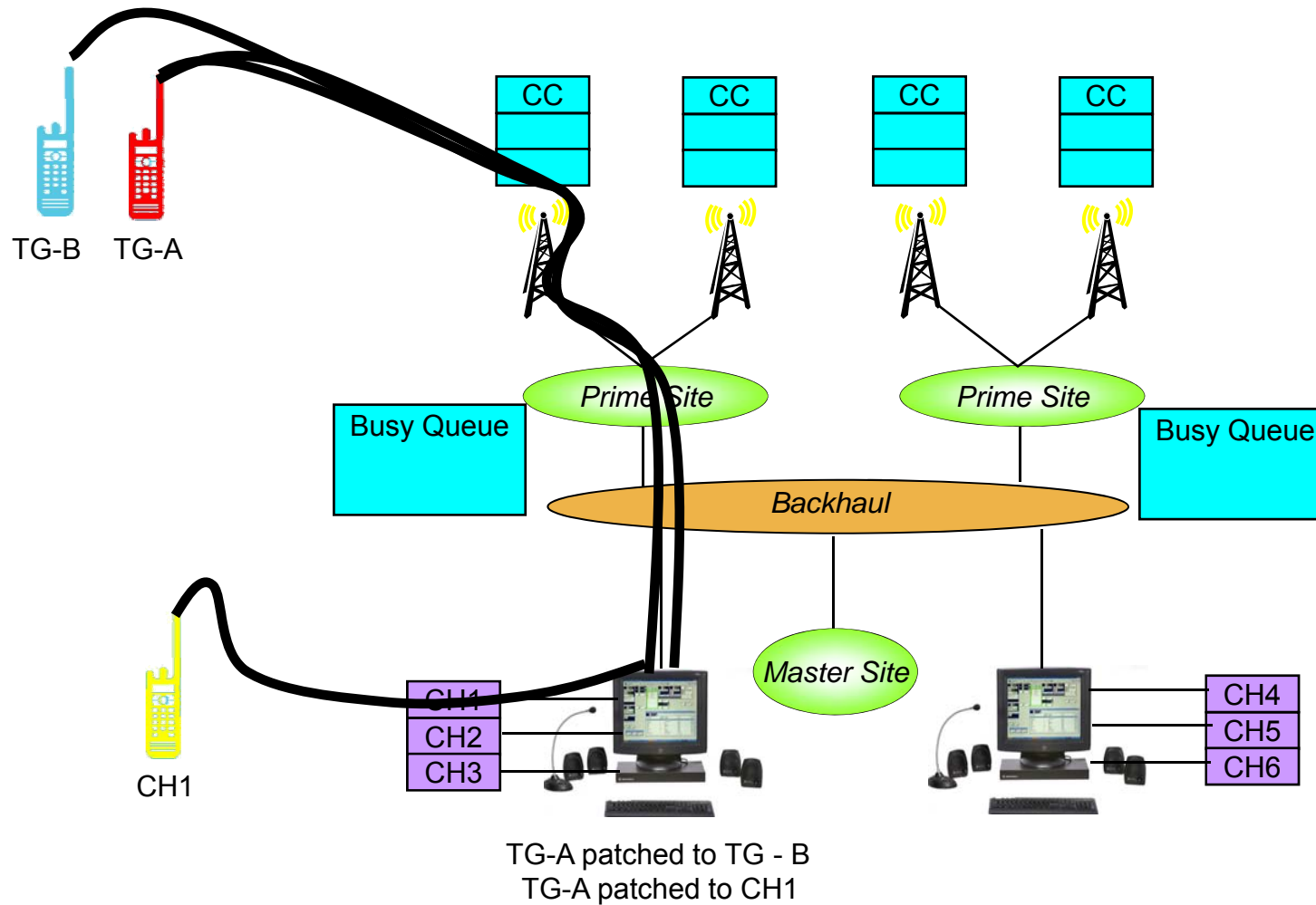


Call Scenarios

Multi-group Call

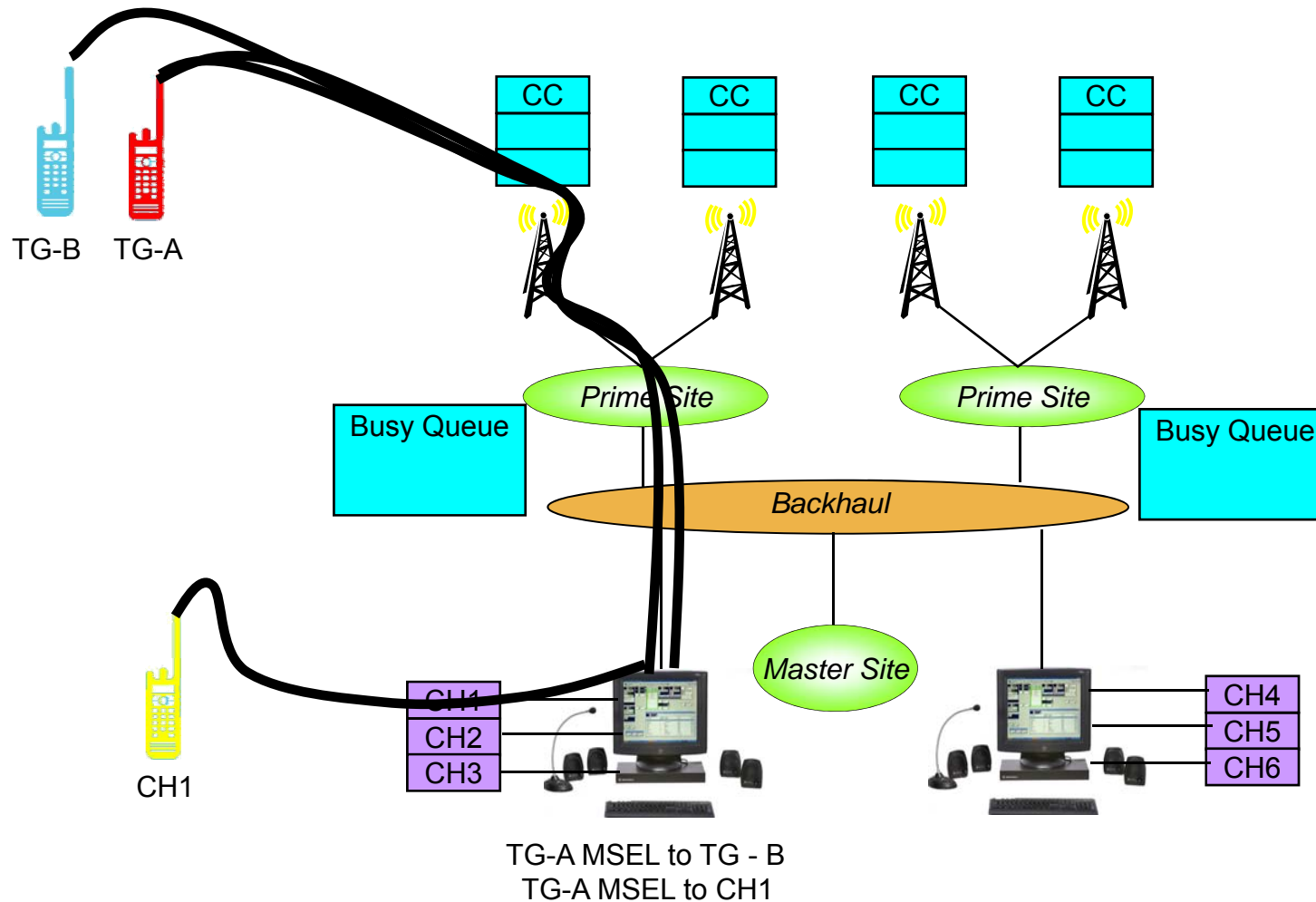


Call Scenarios Patch Call

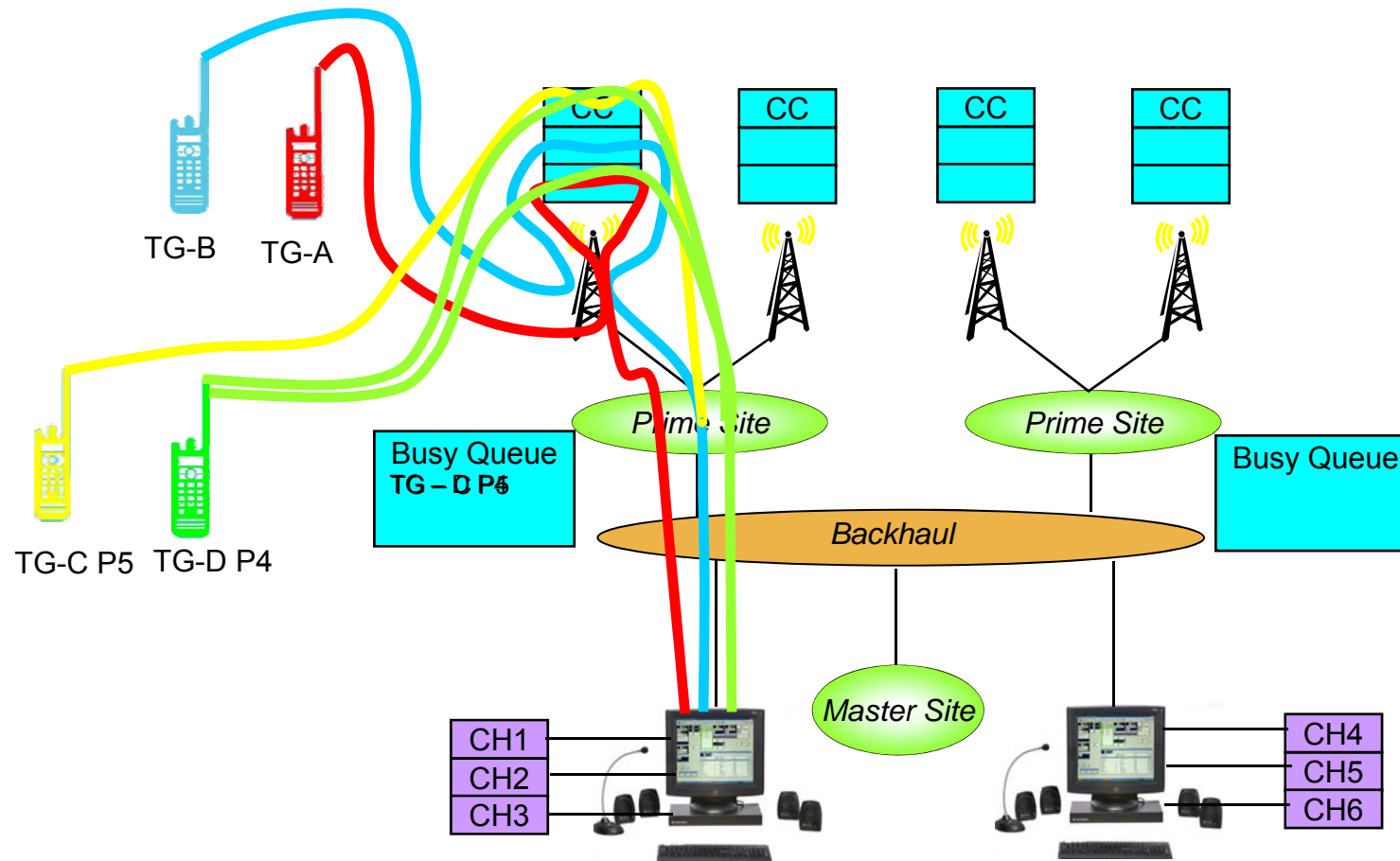


Call Scenarios

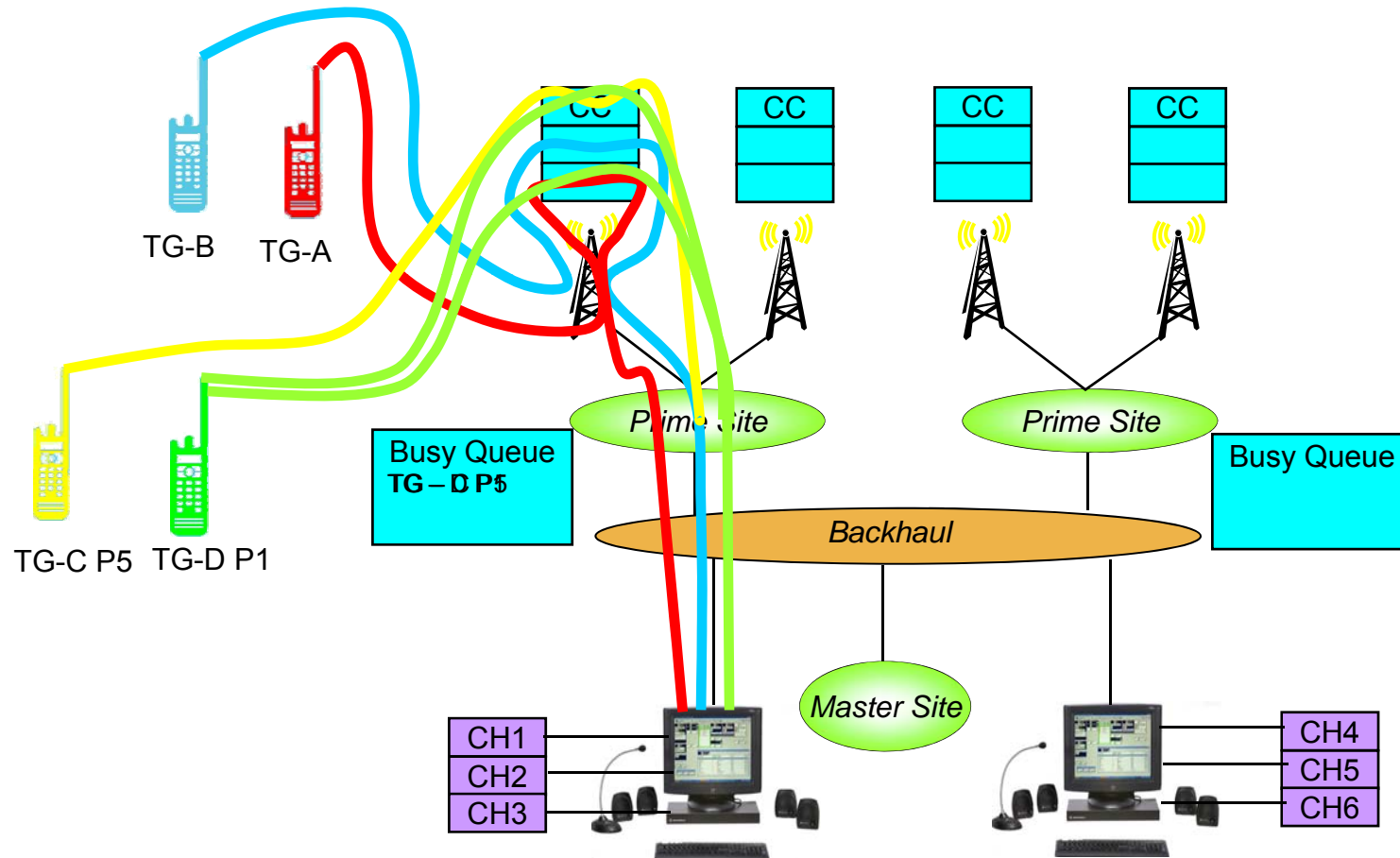
MSEL Call



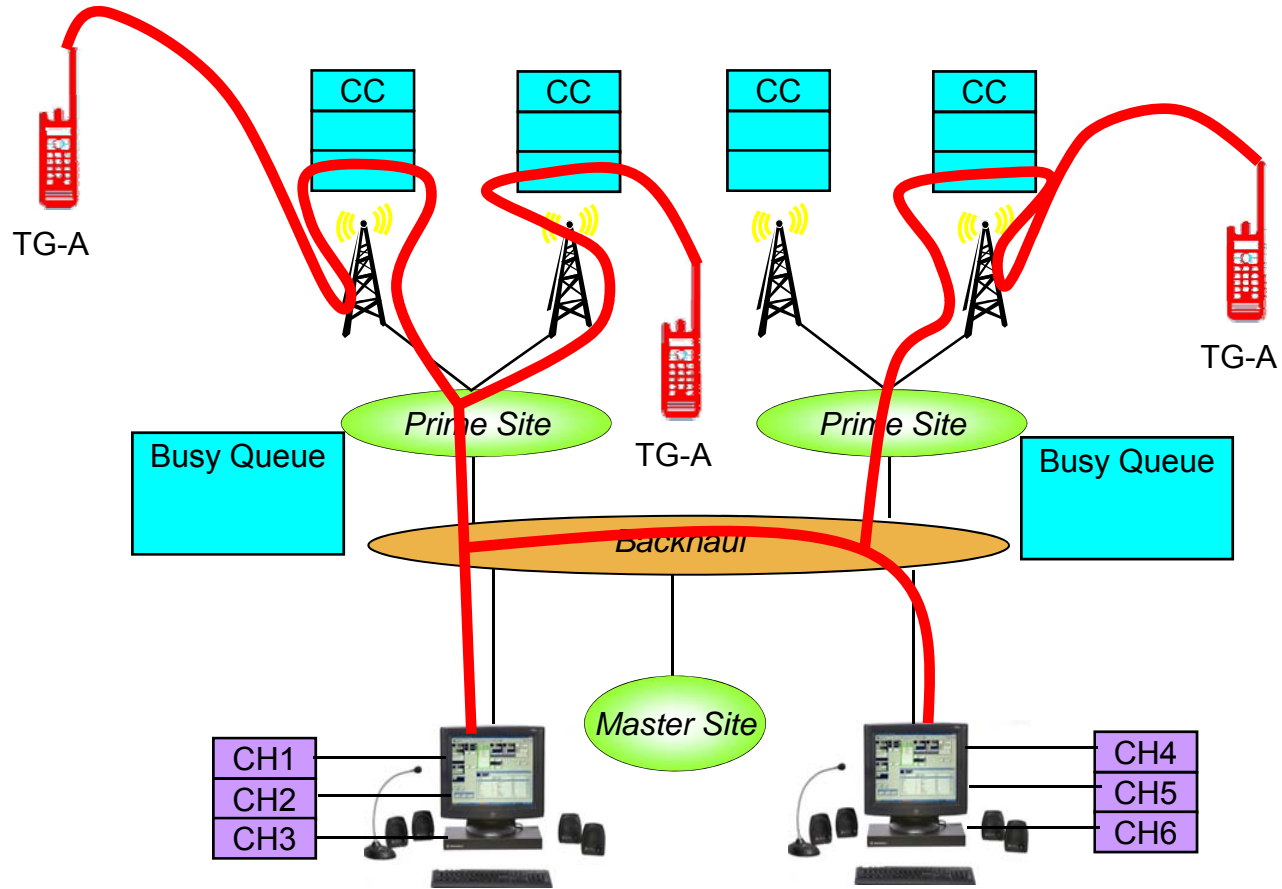
Call Scenarios Talkgroup Priorities



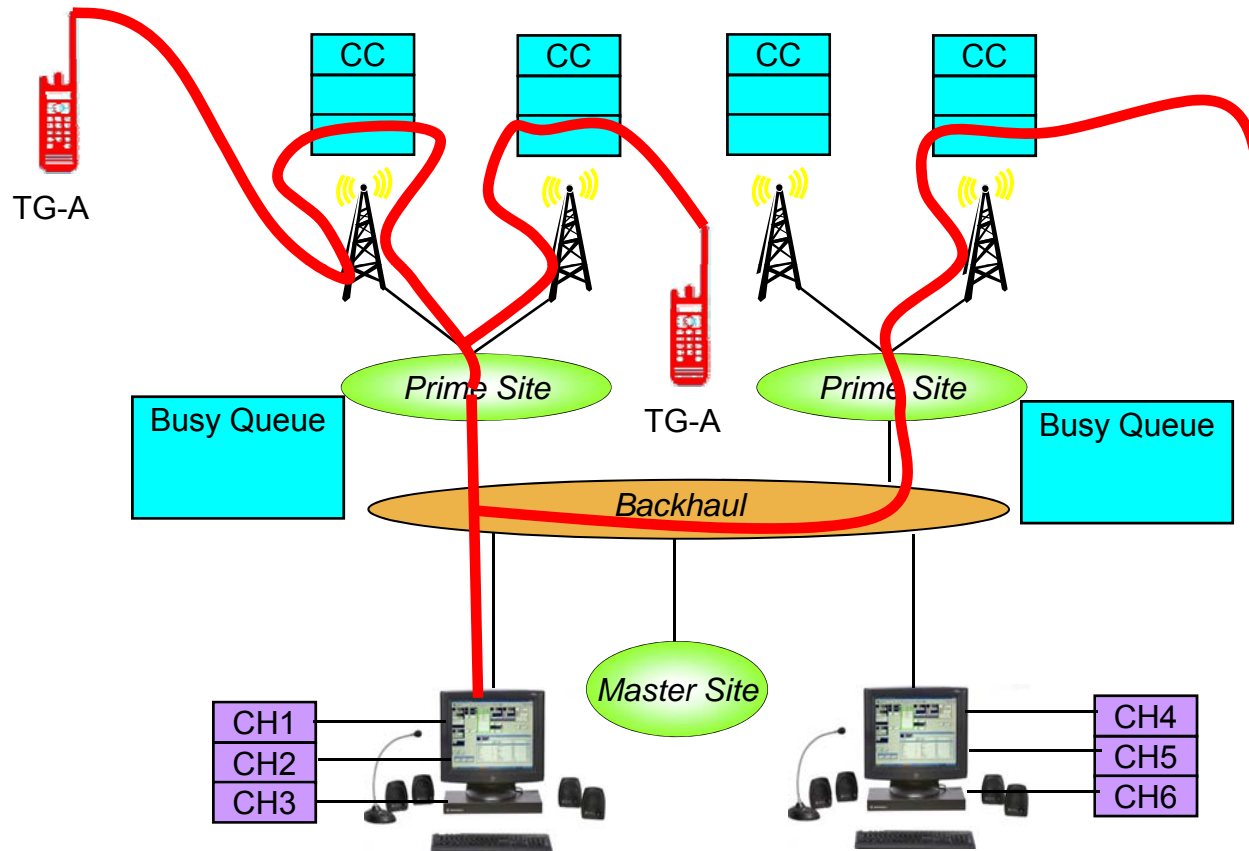
Call Scenarios Emergency Call



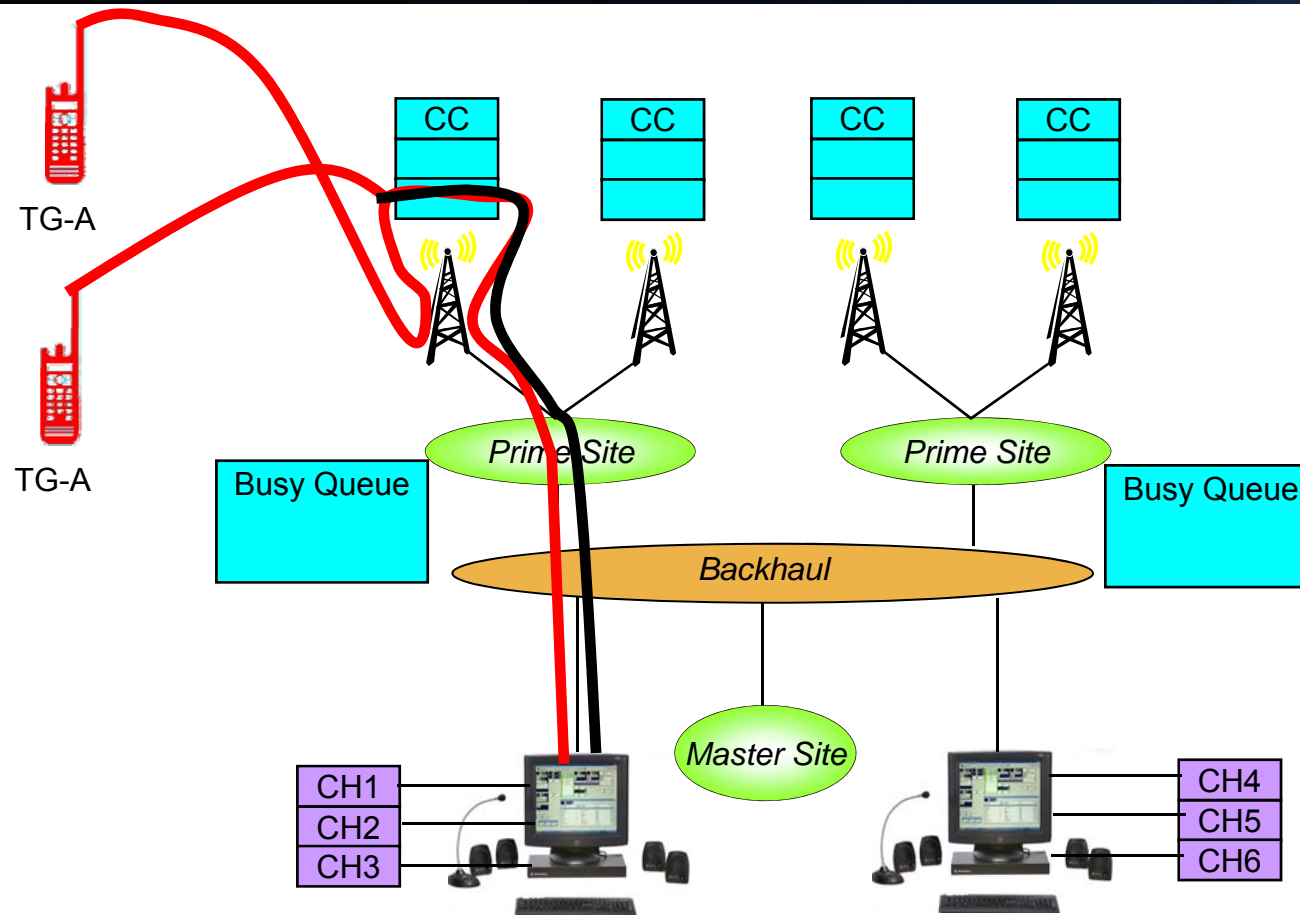
Call Scenarios Interrupt Call



Call Scenarios Roaming

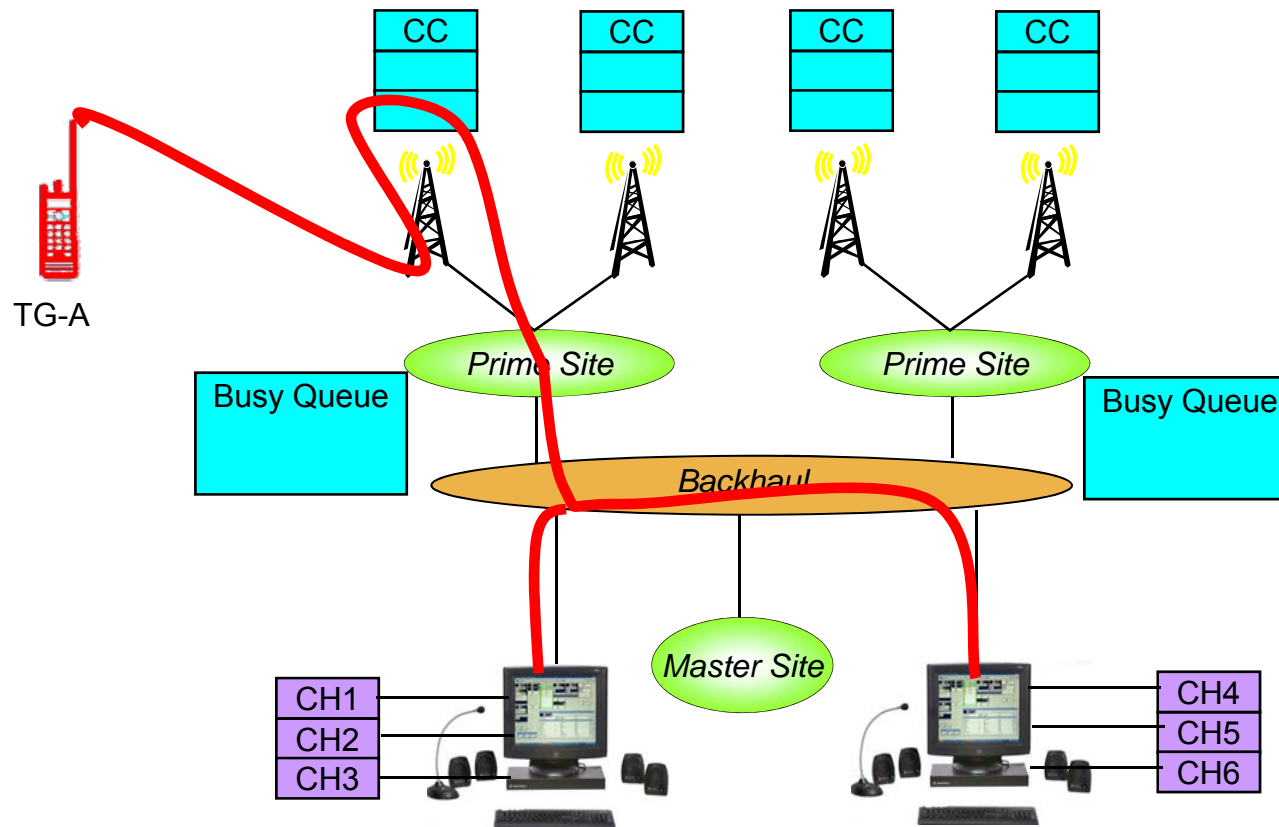


Call Scenarios Dispatch Priority



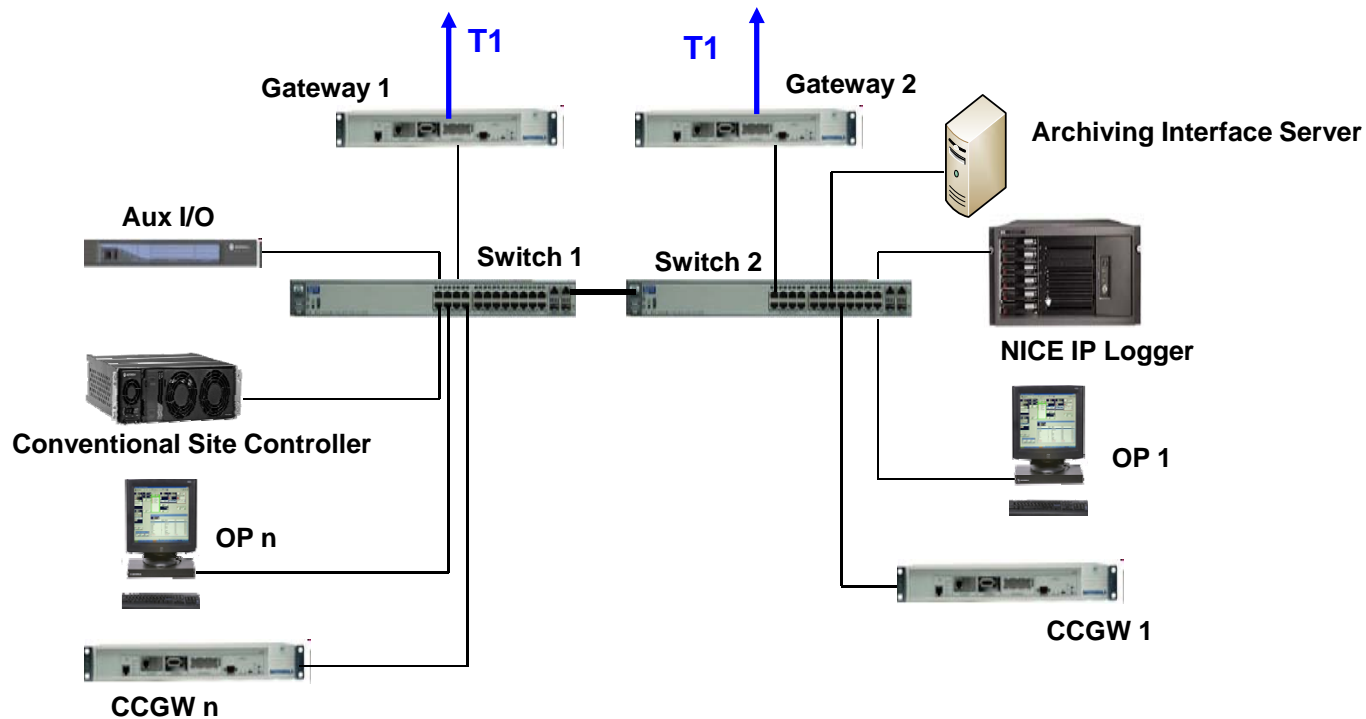
Call Scenarios

Wireless Console Calls



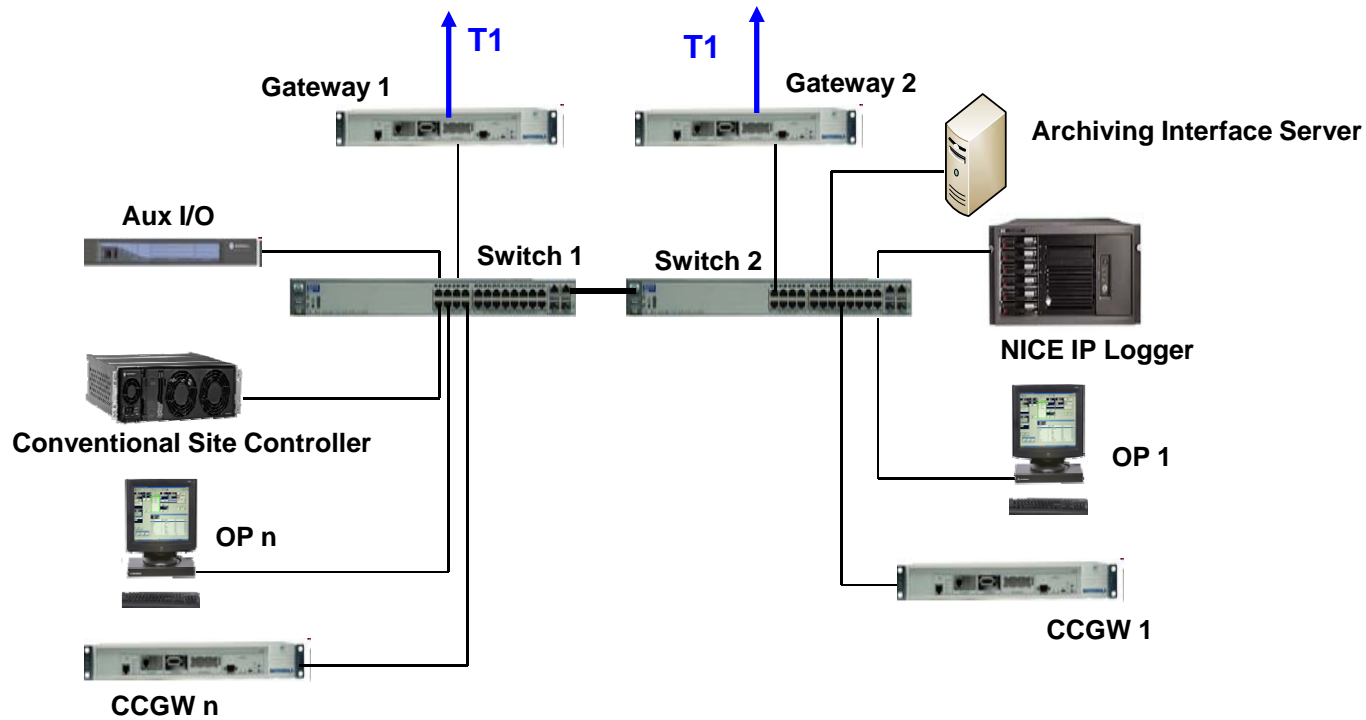
Technical Overview

MCC 7500 Redundancy – Routers or T1s



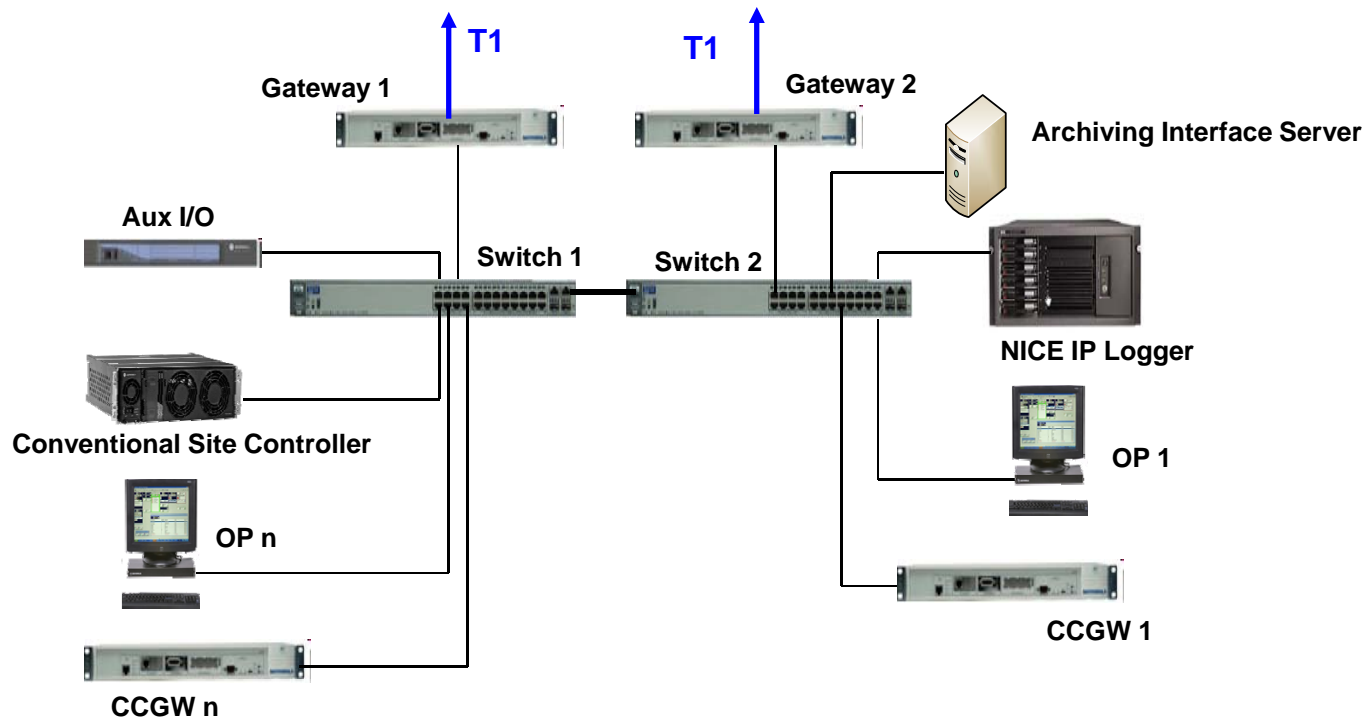
Technical Overview

MCC 7500 Redundancy – Switch



Technical Overview

MCC 7500 Redundancy – CSC Usage



Cutover



- RF Infrastructure Installed
 - ▶ Trunked and Paging Systems
- Individual PSAP's (one at a time)
 - ▶ Will be coordinated with transition of users onto system
 - ▶ Parallel existing Conventional Resources
 - ▶ Cutover Individual positions
- Transition users to Trunked System

PSAP Responsibility



- Electrical
 - ▶ Each Console position, one electrical outlet is needed for a surge suppressor outlet strip
 - ▶ Back Room will require hardwire four circuits into the 1 Transtector OP8 outlet panel (wire two outlets to each circuit)
 - ▶ Each PSAP will be responsible for its backup power system (UPS / Generator)
- Grounding
 - ▶ Ensure all internal and external facility grounding systems are compliant with R56 standards
 - ▶ Provide a single point ground system that includes an internal master ground point and sub-system ground points, when applicable, located within three feet of the Motorola supplied equipment.
- HVAC
 - ▶ The site HVAC system shall be capable of maintaining interior conditions of 17.8° to 24° C (64° to 75° F) and reduce humidity
- Space
 - ▶ Back Room Rack Space
 - ▶ Desk space which includes modifications to existing furniture

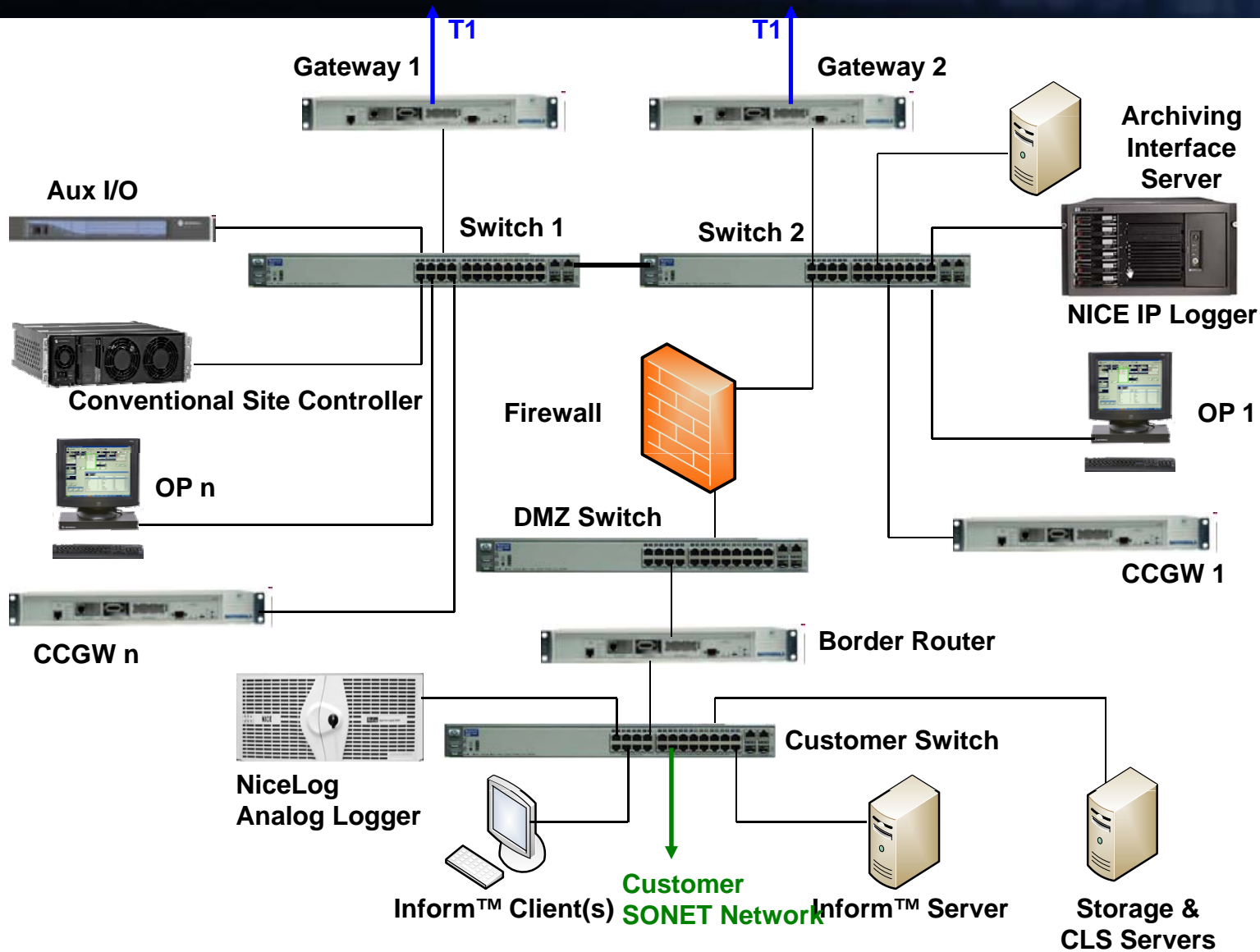
PSAP Responsibility



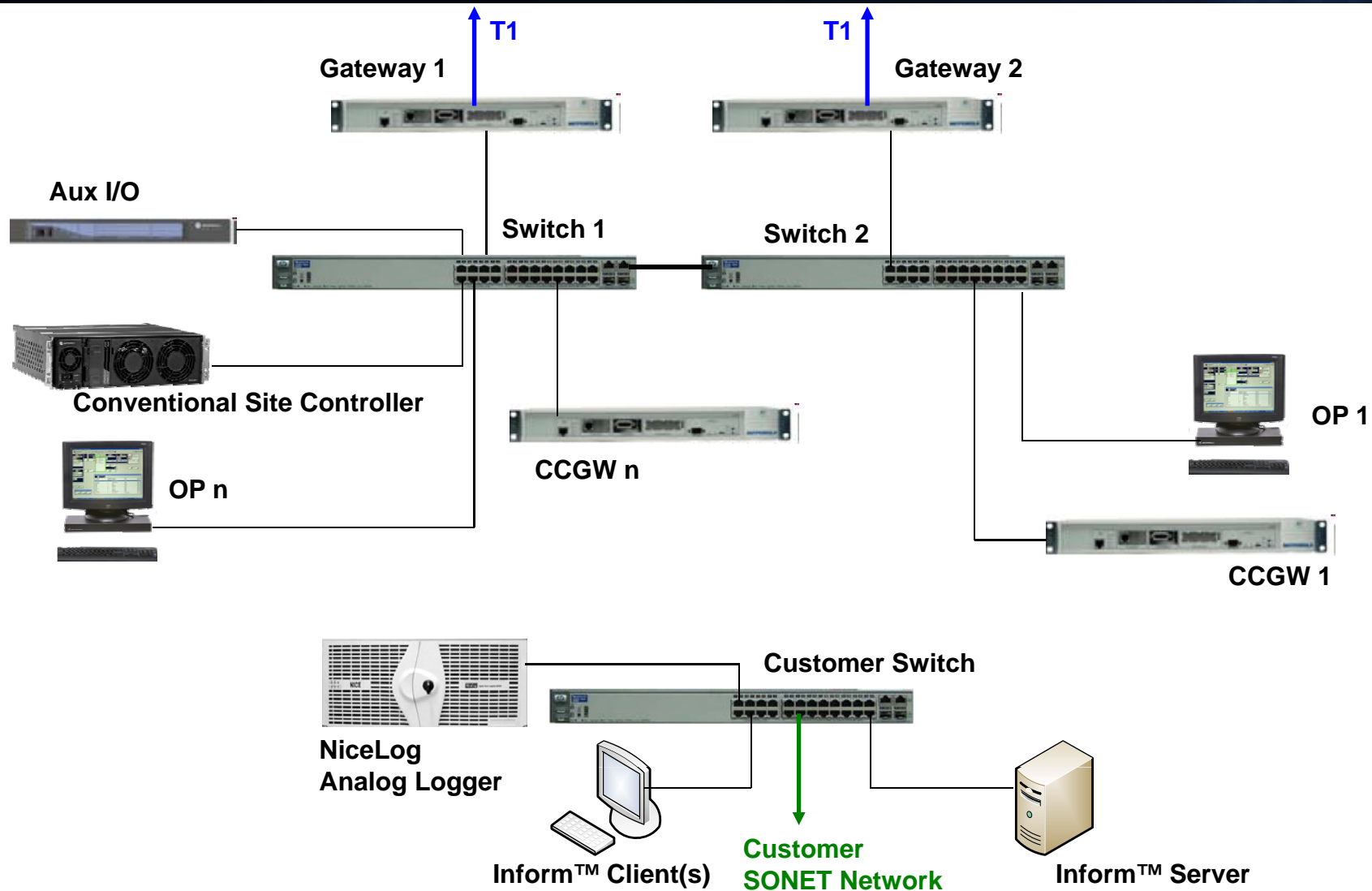
PSAP	# of OPs	AC Power (Watts) in Console room	Cooling (in BTUs/hr) in Console room	AC Power (Watts) in Backroom	Cooling (in BTUs/hr) in Backroom	Rack footprints	OP8 Electrical Panels
DuComm	23	6785	23,150	5887	20,086	3	3
DuPage South	17	5015	17,111	5852	19,967	3	3
DuPage PSAP	10	2950	10,065	2409	8,220	2	2
DuPage North	5	1475	5,033	2479	8,458	2	2

PSAP (Consolettes only)	# of Consolettes	AC Power (Watts) in Console room	Cooling (in BTUs/hr) in Console room	AC Power (Watts) in Backroom	Cooling (in BTUs/hr) in Backroom	Rack Units
Bloomington Fire	2	NA	NA	70	239	7
DuPage Forest Police	1	NA	NA	35	119	4
Tri-State	1	NA	NA	35	119	4
Wood Dale & Bensenville	2	NA	NA	70	239	7

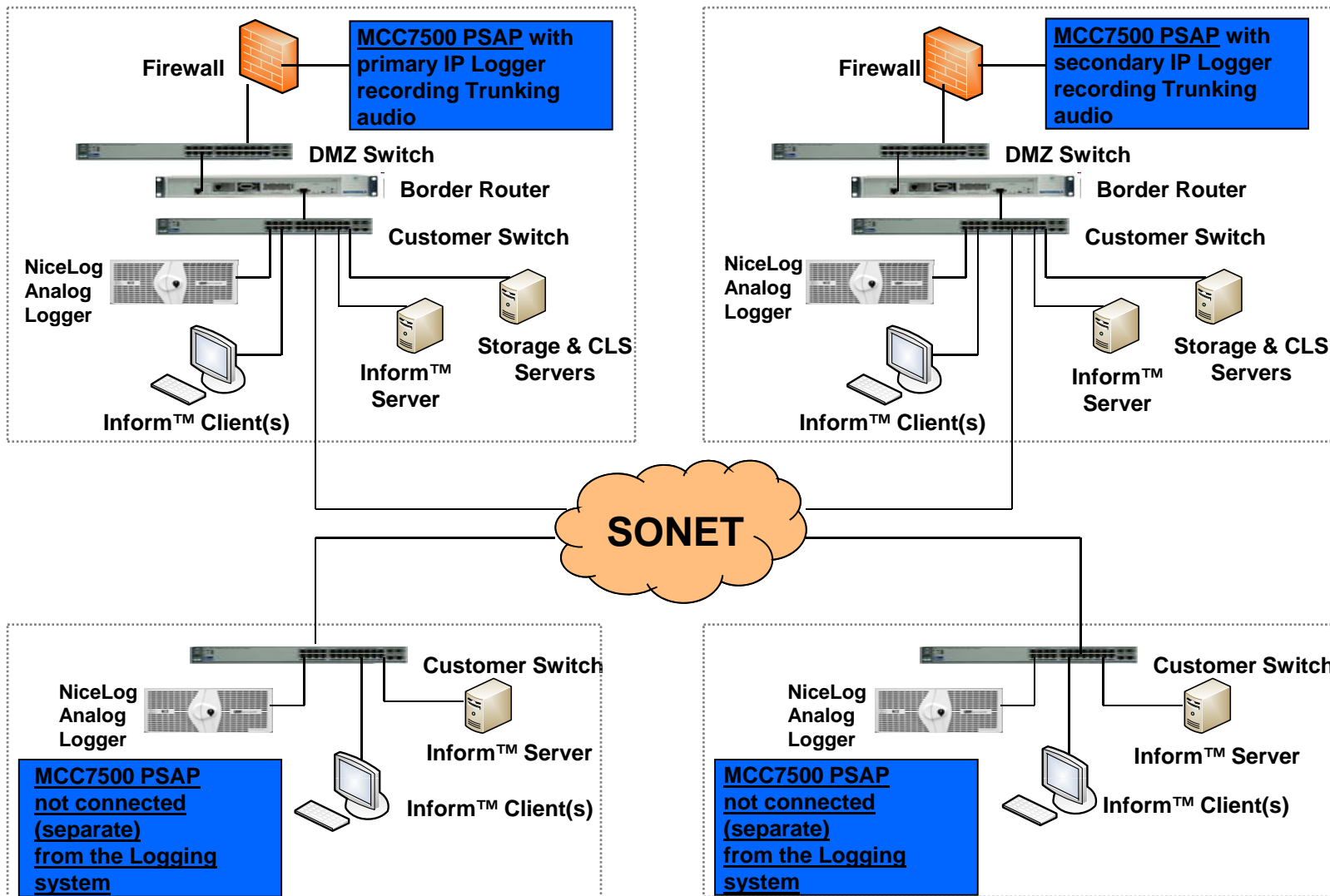
Technical Overview Logging



Technical Overview Logging



Technical Overview Logging



NICE Presentation

