

# DIMETRA MCC 7500 IP DISPATCH CONSOLE

Turn your dispatch center into an information pipeline, on which first responders can rely on for the intelligence they need. The MCC 7500 series Dispatch Consoles enable effective and reliable dispatching capabilities on your DIMETRA system. Keep your first responders connected and informed when it matters most with the MCC 7500C Dispatch Consoles. For an organisation that operates in an environment which requires end-to-end encryption the MCC 7500S would be the ideal solution as it provides end-to-end encrypted dispatching communications.

## THE RIGHT INFORMATION, RIGHT AWAY

The connected world gives your agency access to more information than they've ever had before. This information can prove crucial to first responders in identifying and neutralising threats to themselves and others before a situation escalates and results in tragedy. However, with the explosion of available data comes the increasingly difficult task of managing and communicating information.

The MCC 7500 series Dispatch Consoles offer dispatchers integration capabilities to reach across multiple applications and resources, helping to coordinate a response and provide the necessary mission-critical intelligence to ensure the safety of your first responders.

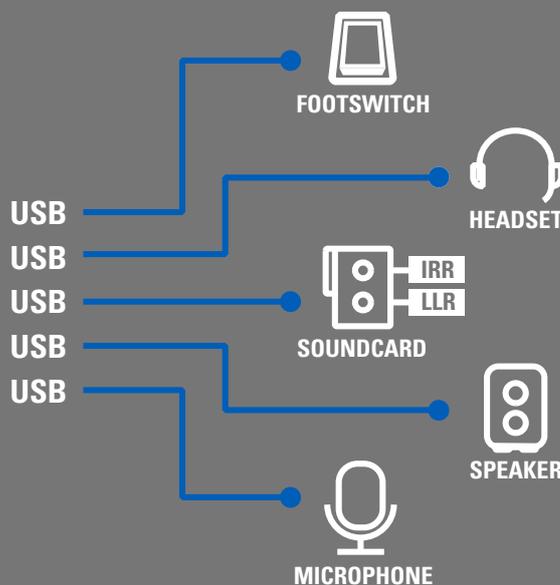
Multiple delivery options are available including voice and tone, that connects dispatchers to responders across your DIMETRA network. These delivery options help ensure your dispatch center can provide the right information, right away.

## EASE OF USE MAKES FOR MORE EFFECTIVE SUPPORT

Give your dispatchers the tools they need to effectively and effortlessly feed crucial intelligence to responders in the field. The MCC 7500 series Dispatch Consoles provide dispatchers with an intuitive means to organise resources, coordinate a response and communicate valuable information. Its familiar interface, which emulates the legacy Centracom graphic user interface (GUI) look and functionality, allows dispatchers to quickly adapt to a new system with a short learning curve and minimal training.

Purpose-designed workflows with minimal click-throughs, critical resource information displays and contextual right-click menus are just some of the features that can help your dispatch operation become more streamlined and effective, and your dispatchers more efficient and productive.

# MCC 7500C ARCHITECTURE DIAGRAM



## THE INTELLIGENCE YOU NEED, EVERY TIME, ALL THE TIME

First responders rely heavily on dispatch for support. They need to be confident that your team can always offer the right information and coordination when an emergency arises. The inherent reliability and security of the DIMETRA system ensures first responders and dispatchers stay connected with best-in-class audio quality.

For peace of mind that the right information always gets through, rely on our smart voice prioritization and intelligent audio routing capabilities at your dispatch positions. Furthermore, continuous link and resource polling gives your dispatchers the confidence that once connected they stay connected.

## SCALE UP YOUR SYSTEM, NOT YOUR COSTS

If your agency is like most others, money is tight for you right now. The MCC7500 series Dispatch Consoles help keep your costs down with flexible servicing options. The software-based system, managed from a centralised, single point of contact, reduces the time and skills needed for updates while the scalable platform lets your system grow as much or as little as you need.

## LEVERAGE A SHARED SYSTEM

With security groups, organisations can take advantage of a shared system while ensuring security and control of agency data and operating procedures. Secure partitions protect agency data from access or alteration by other agencies sharing the same system. Individual agencies have their own security credentials and maintain control over their own dispatch console resources.

## CLEAR AND SECURE OFFERINGS AVAILABLE

The DIMETRA MCC 7500 series Dispatch Consoles comes in either clear or secure versions: MCC 7500C or MCC 7500S. Both provide robust dispatching capabilities while only the secure version (MCC 7500S) offers end-to-end encryption of all voice and data communications. The following sections provide an overview of the components and descriptions of each of the two offerings.

## MCC 7500C CONSOLE OPERATOR POSITION

The MCC 7500C Console operator positions connect directly to the radio system's IP transport network without gateways or interface boxes. The MCC 7500C Dispatch Console function as integrated components of the entire radio system, enabling full participation in system level features such as agency partitioning. The MCC 7500C Dispatch Console runs the Elite Dispatch application software.

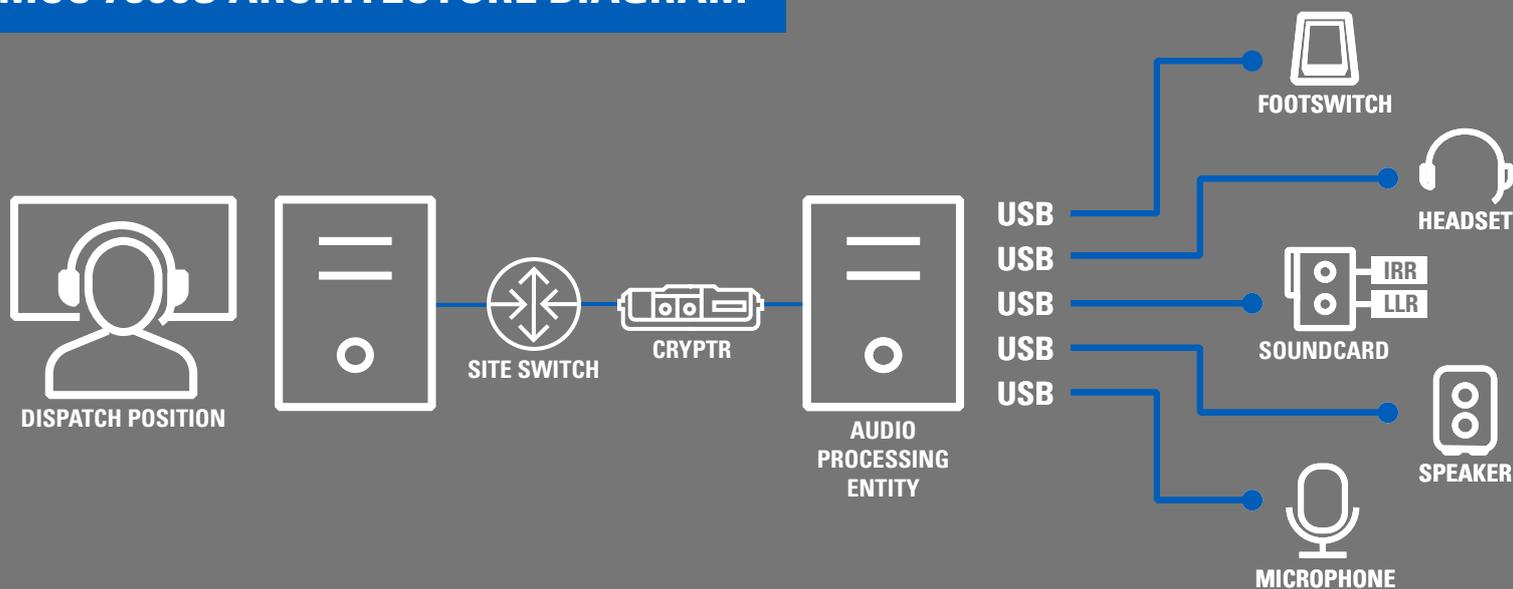
The dispatch position hardware consists of a monitor, personal computer, keyboard and mouse, and audio accessories.

The MCC 7500C Dispatch Console does not require separate configuration or performance management equipment. The console system is configured and managed by the radio system's configuration manager, fault manager and performance reporting applications providing the user with a single point for configuration and managing the entire radio system.

## CONVENTIONAL GATEWAY

The CCGW enables trunked system users to incorporate conventional channels into their dispatch operations without a separate hardware network and channel banks. Conventional audio is transported between the dispatch consoles and the CCGWs by the same IP network that is used for the trunked audio. Each CCGW in the system can support up to four channels.

# MCC 7500S ARCHITECTURE DIAGRAM



## MCC 7500 SECURE COMPONENTS OVERVIEW

The MCC 7500S Dispatch Console includes all of the same features and functionality as the MCC7500C with the addition of the items below.

**MCC 7500S CONSOLE OPERATOR POSITION** The MCC 7500S console operator positions connect directly to the radio system's IP transport network without gateways or interface boxes. The end-to-end encrypted MCC 7500S Dispatch Console runs the Elite Dispatch application software, and comprises the following equipment:

**CALL CONTROL ENTITY** The Call Control Entity (CCE) is a PC which provides the call control functionality for the end to end encrypted console and runs the Elite Dispatch application.

**AUDIO PROCESSING ENTITY** The Audio Processing Entity (APE) provides the audio interfaces e.g. microphone, loudspeakers, and analogue logging output for the dispatch position.

**CRYPTR** The CRYPTR is a standalone device that is Ethernet connected which performs encryption, as well as, decryption of audio for the MCC7500S.

PORTFOLIO CAPACITIES	MCC 7500 SECURE	MCC 7500 CLEAR
MAXIMUM NUMBER OF TRUNKING AND CONVENTIONAL RESOURCES ASSIGNED	300	300
MAXIMUM NUMBER OF INBOUND SIMULTANEOUS AUDIO STREAMS	8	30
NUMBER OF RESOURCES PER PATCH GROUP	32	32
NUMBER OF PATCH GROUPS PER DISPATCH CONSOLE	16	16
NUMBER OF MULTISELECT GROUPS PER DISPATCH CONSOLE	3	3
NUMBER OF RESOURCES PER MULTISELECT GROUP	20	20
CALL COUNT FOR END TO END ENCRYPTION MCC 7500S DISPATCH CONSOLE	8	0

#### MONITOR REQUIREMENTS

21.5" recommended

#### SPEAKER MOUNTING OPTIONS

Desktop, furniture mount, or wall mount (with bracket accessory)

#### CONNECTIONS

DEVICE	CONNECTOR TYPE
One Desktop Microphone	USB
Desktop Microphone PTT	USB
Two Headsets	USB
Two Desktop Speakers	USB
One Local Logging Recorder	XLR
One Radio Instant Recall Recorder	XLR
One Footswitch	USB
Beacon	USB

#### SUPPORTED CONSOLE SITE LINK TYPES

Fractional E1, Single E1, Multiple E1s Redundant and non-redundant IP site links are supported

#### CERTIFICATIONS

The various hardware elements of the MCC7500 series Dispatch Consoles are certified to meet the requirements for EN, UL, CSA and CE.

EMC Emissions	International Energy Efficiency Level V
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#### SIZE AND WEIGHT

DEVICE	HEIGHT	WIDTH	DEPTH	WEIGHT
Tower PC	100 mm	337 mm	384 mm	6.44 kg
Rack Mountable PC (1U) + 35 mm for front handles	43 mm	426 mm	574 mm	12.3 kg
Speaker	155 mm	135 mm	127 mm	0.9 kg
With mounting bracket	165 mm	175 mm	140 mm	1.2 kg
Microphone w/ gooseneck straight up	533 mm	119 mm	165 mm	1.2 kg
Beacon (no tube)	294 mm	70 mm	70 mm	0.1 kg
HP 21.5" LCD Monitor (with stand; highest position)	464 mm	488 mm	205 mm	5.26 kg

#### POWER CONSUMPTION AND THERMAL

DEVICE	POWER INPUT
Tower PC AC input voltage	90 - 264 VAC
Tower PC AC input frequency	47 - 63 Hz nominal
Tower PC AC input power	38.6W @ 230 VAC
Tower PC operating temperature	0 to 40°C
Tower PC heat dissipation	132 BTU/hr
Rack Mountable PC AC input voltage	100 / 240 VAC nominal
Rack Mountable PC AC input frequency	50/60 Hz nominal
Rack Mountable PC AC input power	105W
Rack Mountable PC operating temperature	+5 to +35°C
Rack Mountable PC heat dissipation	357 BTU/hr
Speaker power consumption	N/A
with power supply	25 W (typical) 41 W (maximum)
Speaker heat dissipation with power supply	86 BTU/hr (typical) 140 BTU/hr (maximum)
Speaker operating temperature	0 to 40°C
HP 21.5" LCD Monitor AC input voltage	Auto-Sensing 100 - 240VAC
HP 21.5" LCD Monitor AC input frequency	50-60 Hz nominal
HP 21.5" LCD Monitor AC input power	18W (typical)
HP 21.5" LCD Monitor heat dissipation	46 BTU/hr @ 230VAC/50Hz
HP 21.5" LCD Monitor operating temperature	+5 to 35°C

For more information please visit [https://www.motorolasolutions.com/en\\_xu/products/tetra/infrastructure/tetra-dispatch-communications/tetra-dispatch-consoles.html](https://www.motorolasolutions.com/en_xu/products/tetra/infrastructure/tetra-dispatch-communications/tetra-dispatch-consoles.html)



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