



# READY FOR THE FUTURE, TODAY

**DIMETRA X CORE**





FOR GOVERNMENT ORGANISATIONS, PUBLIC SAFETY AGENCIES AND LARGE ENTERPRISES, MOBILE BROADBAND IS ON THE WAY. AND WHILE YOU DON'T KNOW WHEN THAT CHANGE IS COMING—YOU CAN BE READY FOR IT WITH DIMETRA™ X CORE.

IT'S DESIGNED TO MAKE THE MOST OF YOUR EXISTING DIMETRA NETWORK TODAY, WHILE PREPARING YOU FOR THE ADDITIONAL CAPABILITIES OFFERED BY MOBILE BROADBAND TOMORROW.

# DIMETRA X CORE

## READY FOR THE FUTURE, TODAY



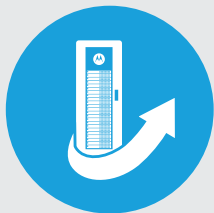
With a software-defined core, enhanced cyber security and smart interfaces, DIMETRA X Core is built for long-term performance, giving you the mission-critical communications you need for the next 15 years or more. By replacing your existing core network with DIMETRA X Core, you'll be making a cost-effective investment to enhance and prolong the service life of your DIMETRA radio access network.

As technology evolves, so will your DIMETRA system. It features a fully scalable architecture that allows system design and expansion from one site to 5000 or more. And as your needs change, you can easily add new users or capabilities by enabling software licenses.

DIMETRA X Core consumes less energy and lowers the long-term total cost of ownership for your organisation. Not to mention offering scalable pricing, so you pay only for the capacity and capabilities you need. Based on proven DIMETRA TETRA technology and open standards, DIMETRA X Core is a secure, smart investment for your organisation's future.

### KEY FEATURES

- Advanced architecture
- Software-defined core
- Protected investment in radio access network
- Fully scalable from one to 5000+ sites
- Comprehensive feature set
- Consolidated, virtualized core
- Flexible capabilities
- Flexible capacity
- Scalable pricing
- Lower operational costs
- Lower total cost of ownership
- Proven DIMETRA technology



## FUTURE READY

WITH ITS MODERN ARCHITECTURE,  
DIMETRA X CORE IS BUILT FOR THE FUTURE TODAY.

Its advanced capabilities will allow you to move easily to mobile broadband when the time is right, while protecting your investment in the radio access network. DIMETRA X Core features a software-defined core and smart interfaces, so you can expect long-term performance for the next 15 years or more. Regular DIMETRA software updates will keep your network operating at the peak of its performance and give you access to new capabilities as they're developed. And you'll be prepared for WAVE™ push-to-talk solutions and Intelligent Middleware interfaces that extend voice communications and applications when TETRA and mobile broadband technologies converge.





# FULLY SCALABLE

WHETHER YOU'RE OPERATING AN AIRPORT SYSTEM, A REGIONAL UTILITY OR A NATIONAL PUBLIC SAFETY NETWORK, YOU'LL ENJOY THE SAME, HIGH LEVELS OF OPERATIONAL RESILIENCE, RELIABILITY, SECURITY AND COMPREHENSIVE FEATURE SET—GIVING YOU ALL THE COVERAGE, CAPACITY AND CAPABILITY YOU NEED.

DIMETRA X Core features a fully scalable architecture that enables system design and expansion from one site to 5000 or more. At the same time, you can share a single system with other organisations to keep costs down. Through agency partitioning, you have the ability to share the network, while still maintaining safe, secure and private communications.

In addition, multiple TETRA networks can be connected for mission-critical push-to-talk communications across borders. The Inter System Interface makes true collaboration possible. With international cooperation more important than ever, neighboring countries or regions can now communicate seamlessly. Whether handling border control or responding to a natural disaster, working together has never been easier.





## MISSION CRITICAL

**COUNT ON  
DIMETRA X CORE FOR  
MISSION-CRITICAL  
COMMUNICATIONS.**

Whether it's group and individual push-to-talk services, individual and group messaging for enhanced collaboration, dynamic team management for coordinated incident response, location tracking, or voice recording, you have the advanced services you need.

With multiple levels of resiliency and redundancy, including the ability to support geographic redundancy, you ensure performance in case of civil emergencies or natural disasters. Because for your organisation, communications failure is not an option.



## FLEXIBLE CAPABILITIES

**HAVING A FLEXIBLE COMMUNICATIONS NETWORK IS A MUST FOR ANY GOVERNMENT ORGANISATION, PUBLIC SAFETY AGENCY OR LARGE ENTERPRISE.**

With DIMETRA X Core's software-defined core you can easily add new users or new capabilities. Simply enable software licenses to meet the needs of a temporary, large-scale regional event - or to permanently address the needs of your growing organisation.

Restricted budgets are a fact of life. Through its consolidated, virtualized core, DIMETRA X Core uses less energy and simplifies system management while paving the way for smoother software upgrades in the future. And with scalable pricing you pay only for the capabilities and capacity you need. All of which lowers operating costs and the total cost of ownership.





## PROVEN RELIABILITY

WHEN IT COMES TO MISSION-CRITICAL COMMUNICATIONS,  
YOU NEED DIMETRA'S PROVEN TETRA TECHNOLOGY.

With over 1000 DIMETRA systems deployed in more than 100 countries by Motorola Solutions, you know you're making a smart investment for the future. And since TETRA is a proven, mature and highly-stable ETSI open standard technology, you can count on its compatibility and interoperability.







# ENHANCED PROTECTION

**CYBER SECURITY THREATS ARE A REALITY OF THE WORLD WE LIVE IN.**

Attackers today are more pervasive, persistent and proficient at evading security and disrupting operations. With the safety of your personnel at risk, trust Motorola Solutions, the leader in mission-critical communications, to help you identify and manage risks in this constantly changing environment.

DIMETRA X Core helps you respond to these challenges, so you're better protected today and prepared for continuous improvements in cyber security for years to come.





WITH DIMETRA X CORE'S ADVANCED ARCHITECTURE AND MISSION-CRITICAL FEATURES, YOU CAN MAKE THE MOST OF YOUR DIMETRA NETWORK TODAY, AND BE READY FOR THE ADDITIONAL CAPABILITIES OFFERED BY MOBILE BROADBAND TOMORROW.





## DIMETRA X CORE SPECIFICATIONS

TETRA voice and supplementary services* including group and individual calls	
Compatible with Motorola MTS range of TETRA base stations and MCC7500 dispatch consoles	
Short and packet data services	
Telephony interconnect gateway – choice of E1 or IP enabling connection to analogue PABX or an external VoIP network via IP-PABX; SIP protocol support	
E1 or ethernet site links	
Interface to customer enterprise network	
Inter System Interface (ISI)	
Remote service access	
Core redundancy with geographical redundancy option	
Voice recording option	
Interface support to Intelligent Middleware	
Interface support to WAVE 5000 and WAVE 7000	
Security options	Authentication
	Air interface encryption (including Class 3G)
	End-to-end encryption
Cyber security options	Anti virus
	OS patching
	Site link encryption
	Perimeter protection
	OS hardening
	Two factor authentication

Physical dimensions HxWxD (mm)	Single rack: 1850 x 610 x 1010
	Geographical redundancy racks: 1850 x 610 x 1010
Weight (kg) (min)**	Single rack: 275
	Geographical redundancy racks: 250 (each rack)
Power consumption (kW) (min)**	Single rack: 1.2
	Geographical redundancy racks: 0.8 (each rack)

### Environmental

Compliant with Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on Waste Electrical and Electronic Equipment (WEEE) and Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

### Regulatory

EN 55024 and EN 55032

\* For full details of services supported please contact Motorola Solutions

\*\*Weight and power consumption based on minimum configuration



For more information, please visit: [motorolasolutions.com/dimetraxcore](https://motorolasolutions.com/dimetraxcore)



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