MOSAIC™ HYBRID NETWORK

Mosaic

EXPAND YOUR LMR COMMUNICATIONS AREA AND CAPABILITIES WITH PTT OVER BROADBAND TECHNOLOGY

Leonardo's Mosaic™ communications solution is a heterogeneous communications suite that connects land mobile radio (LMR) networks with broadband systems via push-to-talk (PTT) over broadband technology. This connection of radio and broadband LTE/4G/5G standards expands communications capabilities beyond the range of any DMR, P25, or TETRA network by allowing smartphones to talk to radios, regardless of the LMR coverage area.

Mosaic is ideal for mission critical control rooms and first responder organizations because it is reliable beyond LMR coverage limitations and allows dispatchers to communicate with all field personnel simultaneously. Mosaic also serves the business sector well because, in addition to voice, it delivers text data. Even within LMR coverage areas, Mosaic serves as a reliable backup to DMR, P25, or TETRA systems.
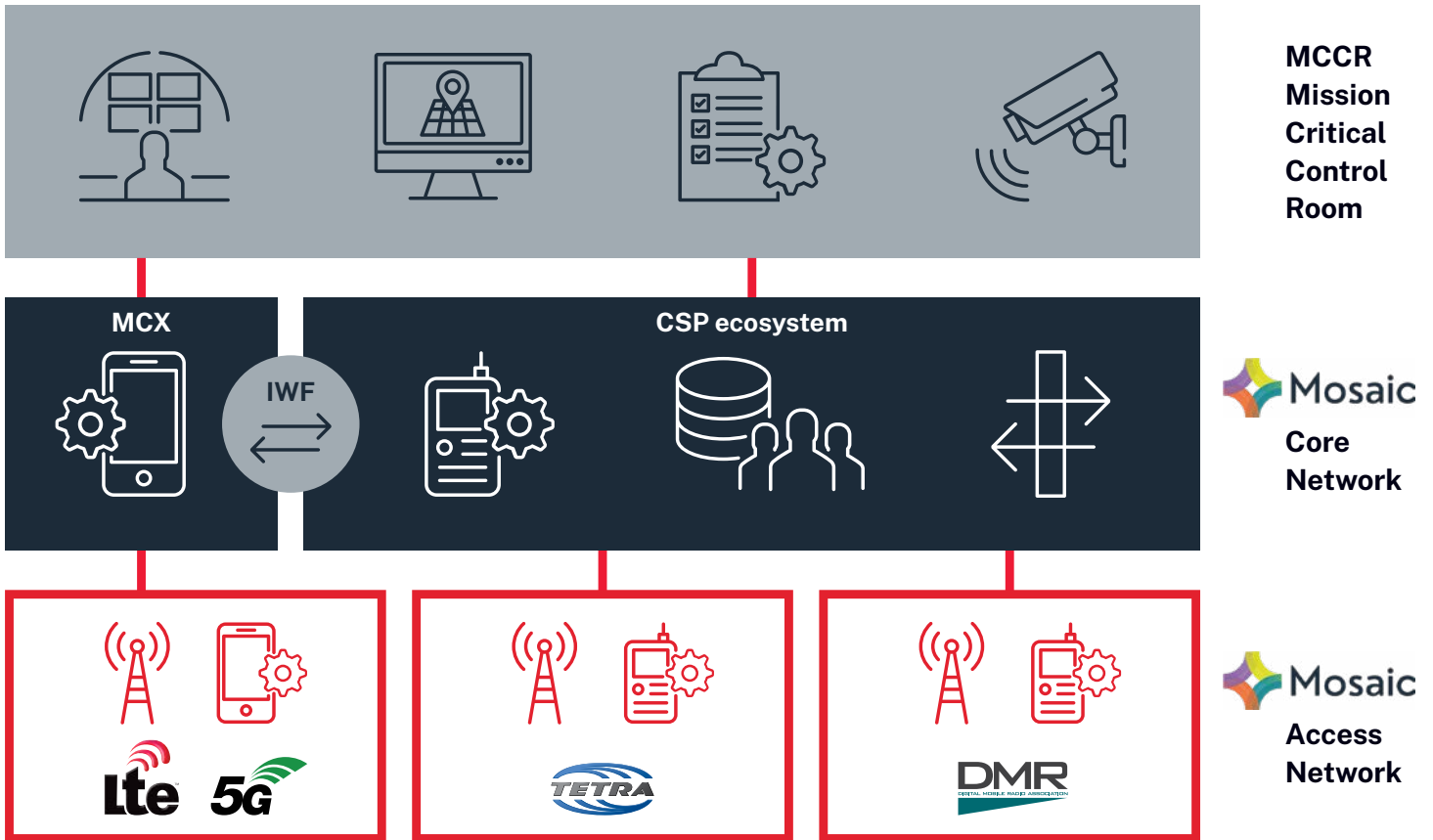
Mosaic Supports These Scenarios:

- Group calls: a group call between a set of DMR radios and a set of smartphones, or vice-versa

- Individual calls: a direct individual call between a smartphone and a DMR radio, or vice-versa

- Emergency calls: group or individual emergency call/s between the DMR radio and cellular domain

- Data exchange: the sending / receiving of text messages between the DMR radio and a smartphone.

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The Mosaic™ Solution Consists of:

1. An MCX 3GPP compliant app for PTT capability for LTE, 4G and 5G standards

2. A Communication Service Platform (CSP) that serves as a common core network allowing subscriber radios and smartphones to communicate using broadband radio access technologies

3. Mission Critical Control Room (MCCR) software that allows dispatchers to communicate with all field units simultaneously

4. Management software that allows the system manager control of their communications across technologies

The Mosaic Solution Architecture

Mosaic™ can be integrated with legacy communications systems or be a vital component of a new network, to best serve the needs of your community or enterprise. Whether you are an end-user or reseller, please contact us for more information on how we can help advance your project or mission.

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