

# EVIDEN

Lifelink MCx IWF

## Interworking function



an atos business

# Lifelink MCx IWF

Eviden's interworking function enables seamless integration between legacy communication systems such as GSM-R, TETRA or PABX and modern broadband mission-critical MCx systems. Typical use case scenarios can be found in industries like transportation, public safety, ports and utilities.

## Standards compliance

Lifelink MCx IWF is a **standards-based solution**, developed in alignment with international specifications (3GPP, ETSI, FRMCS) and validated through plug tests.

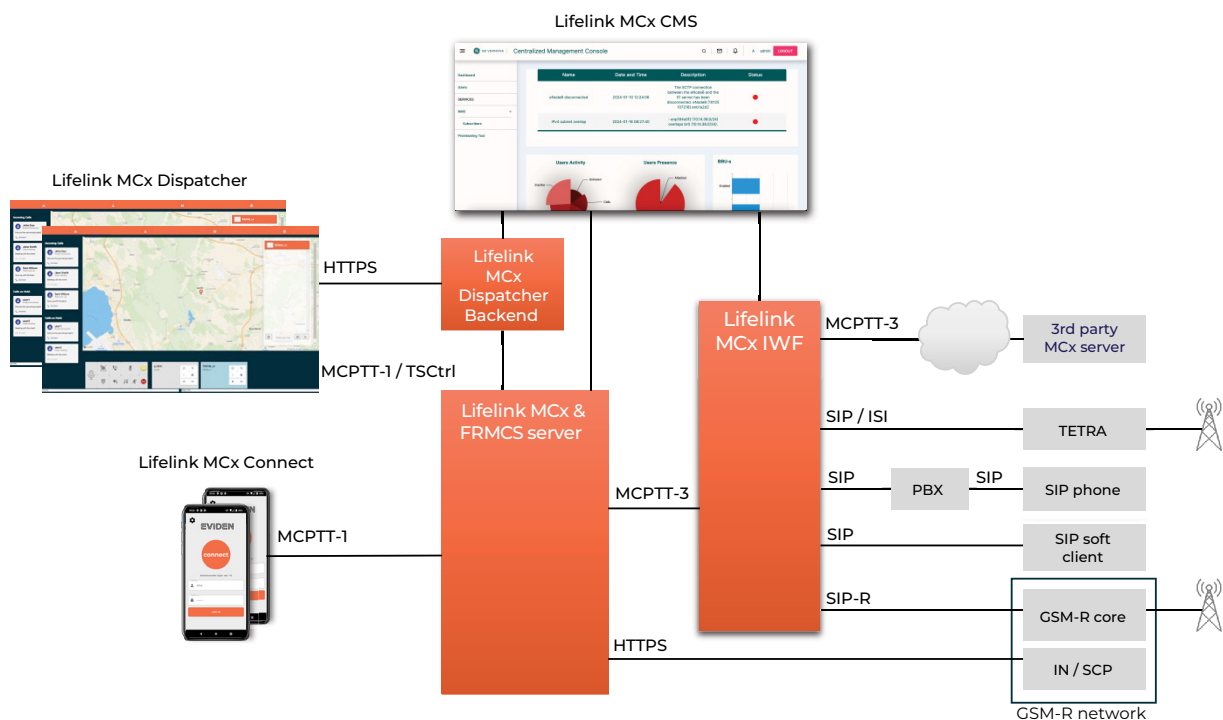
## Core capabilities

The interworking function comes in different flavours to address specific needs:

SIP Interconnect with legacy systems	SIP-R Interconnect with GSM-R	MCPTT-3 3 <sup>rd</sup> Party MCx servers
<ul style="list-style-type: none"><li>• Provide gateway functionality to connect to legacy systems</li><li>• Support voice (MCPTT), video (MCVideo) and data (MCData)</li><li>• Support both participating and controlling functions</li></ul>	<ul style="list-style-type: none"><li>• Migrate smoothly from GSM-R to FRMCS</li><li>• Interwork seamlessly with existing GSM-R mobile networks</li><li>• Align with FRMCS migration strategies</li></ul>	<ul style="list-style-type: none"><li>• Integrate the MCx servers in peer-to-peer via the MCPTT-3 interface</li><li>• Deploy distributed, edge-based MCx architectures to enhance resilience and fault tolerance</li></ul>

## Main Benefits

- Secure migration from legacy to broadband systems
- Future-ready architecture for mission-critical communication
- Interoperability across systems and vendors
- High resilience via distributed MCx server architecture
- Vendor-independent integration for greater flexibility



Features		Supported
<b>► 3GPP Release 18 support</b>		
MCPTT service		✓
MCDATA service		✓
MCVideo service		✓
<b>► IWF specific standards</b>		
FRMCS System Requirements Spec AT-7800 v2.1.0		Defines the FS (FRMCS System) IWF reference point between an FRMCS system and an EIRENE (GSM-R-based) system
ETSI TS 103 792		Specifies the interface and behaviour of IWF systems connecting FRMCS with GSM-R networks
3GPP TR 23.782		IWF between MCx and legacy PMR systems
<b>► Call capabilities</b>		
Point-to-Point calls		✓
Group call handling including prearranged call		✓
Advanced call features		<ul style="list-style-type: none"> <li>• Call forwarding</li> <li>• Call transfer</li> <li>• Call hold</li> </ul>
<b>► Transcoding</b>		
Audio codec conversation		MCx AMR-WB to G.711, G.722
<b>► Deployment options</b>		
High-availability architecture		✓
Containerized deployment		Docker / Kubernetes-ready
Flexible integration		<ul style="list-style-type: none"> <li>• Standalone mode for interworking with 3rd party MCx backend systems</li> <li>• Fully integrated within Eviden's Lifelink MCx Connect framework</li> </ul>
<b>► User interface</b>		
CMS integration		Fully integrated within Eviden's Lifelink Centralized Management System (CMS)
<b>► FRMCS-specific features</b>		
FRMCS / SIP-R communication		Voice and data communication between FRMCS ↔ SIP-R networks
Protocol translation		SIP-R ↔ SIP
Mapping		Functional numbering ↔ Functional aliases
Interworking		Support for location-dependent addressing (LDA)
Location		GPS location information and SCP/IN location information

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