TACTICALL MCI NAVAL MOBILE COMMUNICATION INFRASTRUCTURE
WHAT IS TACTICALL MCI?

TactiCall MCI is built to support your operational requirements, keeping you connected to your network by delivering a robust and secure voice and data communication solution.

TactiCall MCI is a QoS - and resource aware tactical router that manages access to communication services (e.g. provided by radios) for multimedia applications and networked devices.

TactiCall MCI’s modular and scalable design supports legacy integration with future growth in mind.

TactiCall MCI's platform independency will allow you to maintain your legacy equipment while optimizing your operational efficiency through, for instance, ad-hoc routing.

TactiCall MCI will keep you connected to your own forces, joint forces and allies while optimally exploiting the available capacity and improving your situational awareness and operational efficiency.

KEY FEATURES

- Use available legacy equipment, integrate with IP networking and keep migration cost to a minimum
- Step by step soft- and hardware upgrades based on operational needs
- Future-proof through easy step by step upgrades and add on functionality
- Role based login
- Removing stovepipes by introducing use of shared communication resources based on tactical conditions and current transmission requirements
- Capacity aggregation through prioritized bandwidth selection
- Remote and flexible management of entire network through IP technology
- Enhanced robustness using dynamic routing
- Seamless integration of heterogeneous networks

AD-HOC ROUTING

TactiCall MCI automatically chooses the highest possible bandwidth at all times – guaranteeing the best communication path available.

- Operational Ad-Hoc routing
- Maximizing network performance
- Automatically optimizing bandwidth selection
- Enabling seamless data traffic

HF / SATCOM SDR HF / SATCOM
TactiCall MCI enables direct communication from the individual sailor to headquarters. It facilitates the efficient and swift exchange of data and voice throughout the entire network, utilizing the best available bandwidth regardless of the tactical environment.

TactiCall MCI management interface uses a client/server based HMI that is accessed by authenticated T-MCI operators using standard HTTPS.

T-MCI management operators use this interface to administer the router and transmission systems.

The management HMI is implemented as part of the product and hence requires no integration effort.

T-MCI also provides a direct monitoring and control interface to applications (machine-to-machine).

One of the primary uses of this interface is for T-MCI to provide communication system status information to applications on a sub-second basis for flow control purposes.

This simulates the traditional interaction where an application is connected directly to the radio but without the disadvantages associated with such stovepiping.

T-MCI provides extensive network monitoring information capabilities via both the management and application interfaces.

Thanks to flat system architecture and role based log in sequence it is your ConOps that decides where, by whom and how it is accessed.

Manage your transmission system such as legacy radios and SDRs.

Monitor your network status and performance.

Prioritize your application data flows and economize on your transmission systems.

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TactiCall MCI can be provided as a virtual machine and hosted on existing computing hardware—meaning that no new hardware is required.

TactiCall MCI will ensure stepwise integration and updates according to operational and technological requirements.

TactiCall MCI software integrated into already existing hardware ensures a cost efficient and future-proof solution that incorporates existing in-service equipment.

**NETWORK SERVICES**
- DNS
- DHCP
- NTP v3 / v4

**VOICE FEATURES**
- IP PBX
- SIP
- FXS, FXO (Analogue Telecom)
- ISDN (Digital Telecom)
- E&M (Analogue Radio)
- TactiCall
- ANR Headsets
- Multi Session

**QOS**
- DIFFServ
- Traffic shaping

**MANAGEMENT**
- Local and remote
- Web Interface
- Command Line Interface (CLI)
- Application interface

**SECURITY**
- Firewall
- NAT / Port Forwarding
- IPSec
- SSL
- SSH
- Radius, TACACS
- Role-based Access Control
- Common Criteria Certified
- CC Methodology

**DYNAMIC ROUTING**
- OSPFv2 / v3
- BGPv4/+
- RIPv
- Policy Based Routing (PBR)
- IP Multicast (IGMP, PIM-SM)
- OLSR

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**OSS**
- DNS
- DHCP
- NTP v3 / v4

**INTERFACES**
- Ethernet
- CAN
- USB
- Serial

**ROBUSTNESS**
- VRRP

**TECHNICAL SPECIFICATIONS**
**NETWORKING**
- IPv4 / IPv6
- L2TP, GRE, PPP
- VLAN
- RSTP

**HARDWARE**
- IACS E10 (Marine Environment)
- IACS E10+ (Naval, MIL-level)
- Full MIL STD (Mine Hunters)

**INTERFACES**
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**TECHNICAL SPECIFICATIONS**

**INTEGRATION FOCUS**

Covers all radio technologies within all frequency bands as well as telephony.

- Legacy radios
- Air interface by modern (STANAG 4539)
- IP radios/SDR/SATCOM
- Air interface by embedded modem