

Kontron Transportation

# Next-Gen Dispatcher Solutions

from Kontron Transportation and Telematix



**Future-Proof,  
Standards-  
Based Dispatch-  
ing Solution**

for existing  
and future rail  
networks

**Supports  
Individual,  
User-Tailored  
Applications**

for rail  
operations

**Integrated,  
Compact and  
Flexible Solution**

for voice, data and  
video  
communications

**Combines Point-  
to-Point, Group  
and Broadcast  
Call Functions**

with message-based  
communication

# Next-Gen Dispatcher Solutions

## System-Wide-Role Management

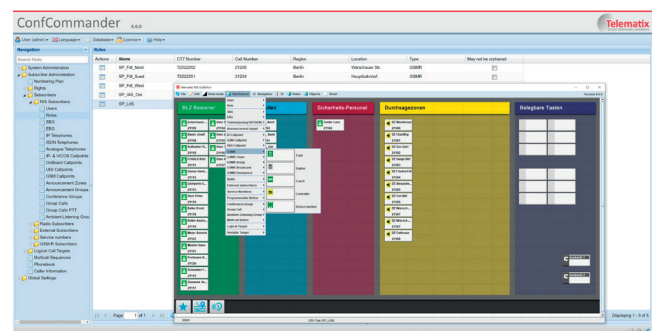
All communication is role-based. The support of the so-called "Roaming user" profiles and dynamic role management allow roles to be dynamically taken on different devices, whereby the user always uses his own defined functions and settings based on his profile. In the case of a dynamic parallel takeover of a role from another device, the call queue, call journal and messages (including templates and emergency alarms) are also loaded in parallel. Several roles can be accepted simultaneously on one device.

| Zeit                | Dauer    | Name         | Nummer | Info      | Prio | Lokaler Tn               |
|---------------------|----------|--------------|--------|-----------|------|--------------------------|
| 04.10.2019 13:39:01 | 00:00:00 | EBG 216 196  | 1136   | Tip750    | 4    | FDL-BerWk Widig, Andreas |
| 04.10.2019 13:38:35 | 00:00:00 | EBG 216 196  | 1136   | Tip750    | 4    | Telematix Widig, Andreas |
| 03.10.2019 15:22:43 | 00:00:00 | EBG 216 196  | 1136   | Tip750    | 4    | FDL-BerWk Widig, Andreas |
| 03.10.2019 16:22:11 | 00:00:03 | FDL-SplO     | 7062   |           | 4    | FDL-BerWk Widig, Andreas |
| 03.10.2019 16:21:57 | 00:00:08 | DZ-Vicos 177 | 1301   | PA-out    | 3    | FDL-BerWk Widig, Andreas |
| 03.10.2019 16:21:44 | 00:00:07 | Vicos 177_AW | 1717   | PaE-T1107 | 4    | FDL-BerWk Widig, Andreas |
| 03.10.2019 16:21:32 | 00:00:00 | EBG 216 196  | 1136   | Tip750    | 4    | FDL-BerWk Widig, Andreas |
| 03.10.2019 08:58:09 | 00:00:00 | EBG 216 196  | 1136   | Tip750    | 4    | FDL-BerWk Widig, Andreas |
| 03.10.2019 08:55:02 | 00:00:00 | Telematix    | 7006   |           | 4    | FDL-BerWk Widig, Andreas |
| 03.10.2019 08:55:02 | 00:00:00 | Uicos 177_AW | 1717   | PaE-T1107 | 4    | FDL-BerWk Widig, Andreas |

Call journal of outgoing calls

## Flexible and Individual Design of the User Interface

With the Kontron Transportation Next-Gen Dispatcher, you can respond to operational and personnel changes in the organization immediately by customizing the user interface quickly and easily. These changes can be made in a user, role or group configuration via a web-based graphical editor. The editor runs as a central system network service and can be operated by the customer himself. The modified configuration and adapted user interface is distributed and deployed on the terminals in a time-controlled manner and with minimal impact on ongoing operations.



TMX-ConfCommander

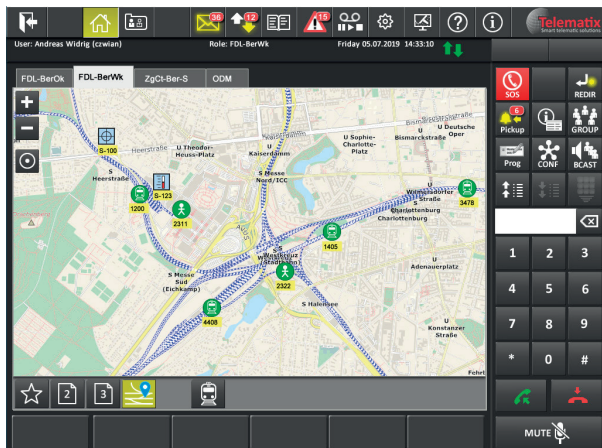
## Audio Modules

Various audio modules are available for the Dispatcher in order to take space and functional requirements into account. Depending on whether there is a need for additional loudspeaker, gooseneck microphone, dialing keys or display, the appropriate type of audio module can be used. All devices are designed for high quality voice transmission with HD voice. In addition, if desired, standard COTS audio devices can be connected to all types of Dispatcher terminals.

# Next-Gen Dispatcher Solutions

## Telephone Directories

In order to enable flexible working with subscriber directories, user and role-specific directories can be created in addition to the central company-wide directories. The view of the role-specific directory depends on the roles currently taken on at this Dispatcher terminal and the view is dynamically adapting to the taken and left roles.



GIS-supported Dispatcher terminal

## GIS-supported Dispatcher Terminal

The Kontron Transportation Next-Gen Dispatcher features a dynamic overlay or map, that displays the current location and operational status of all localized subscribers as well as the desired resources and assets in the area of responsibility. Furthermore, a geo-based dynamic group formation and subsequent initiation of voice, messaging and video communication is enabled. This can significantly shorten the dialing process. Conference calls, group calls and collective calls can be started either with a predefined group of participants, dynamically with the help of intelligent dialing wizards or "ad hoc" by a geographic selection of the trains and participants in the GIS (on a map).

## Intelligent Emergency Call Management

FRMCS REC alerting allows the Dispatcher to take control of alerting areas. Alerts such as REC are distributed intelligently only to affected vehicles and participants in alert areas. The Kontron Transportation Next-Gen Dispatcher supports alerting areas that can be defined for any desired geographical level and shape.



MBG 10 Dispatcher tablet

## Hierarchical Call Switching

Hierarchical call processing enables sequential distribution of incoming calls over several levels to groups, roles and devices according to individually configured rules. The flexible call processing and distribution depend on the workload. It ensures availability even in the event of high workloads or technical failures. The responsible shift supervisor can also manually influence the processing and distribution of incoming calls to his team, depending on the operational situation.

## Next-Gen Dispatcher Solutions

### Convergent: GSM-R, MCx, FRMCS Dispatcher Solution

#### Next-Gen Dispatcher

The Kontron Transportation **Next-Gen Dispatcher solution** is based on a future-proof MCx server/client architecture according to the 3GPP standard, which is an FRMCS enabling technology.



Flexible Dispatcher solution SBG Te23

#### MCx Implementation

The **MCx implementation** is built on an IMS-based SIP core, a Dispatcher application server and a convergent rail application server with MCx and GSM-R functionality. This architecture supports integration and interworking between GSM-R and MCx/FRMCS environments for the available services and configurations. Thanks to this architecture, existing Kontron Transportation GSM-R R4 networks with fixed and mobile GSM-R subscribers can be converged into GSM-R, MCx and FRMCS networks.



Integrated compact Dispatcher terminal SBG Ti10

#### FRMCS Terminals

**MCx-based Next-Gen Dispatcher terminals** can be deployed alongside existing GSM-R terminals, supporting a gradual migration towards FRMCS. Thus migration possibility and investment security is given.



Compact Dispatcher solution SBG Ti7

## Next-Gen Dispatcher Solutions

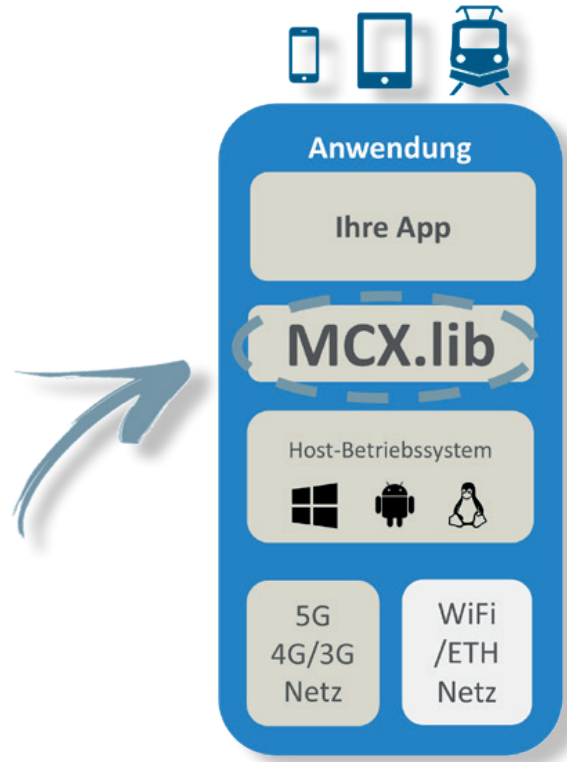
### MCx Client Framework

The Kontron Transportation Next-Gen terminal portfolio like the Next-Gen Dispatcher terminal or the Next-Gen Mobile Android app are built on an interoperable MCx client framework. The framework is licensable and enables the creation of custom value-added applications, even without prior MCx/FRMCS knowledge.

### Standardization, Interoperability and Conformance

To meet the mission-critical requirements of a next-generation environment, Kontron Transportation actively participates in MCx standards, ETSI 3GPP and the ETSI 3GPP MCx PlugTests initiative. In this way we participate in the validation of the 3GPP standards, with the goal of creating a single, interoperable and global standard.

To confirm conformance, the independent inspection body RINA (a Notified Body of the EU), which is accredited for ISO / IEC 17020, has certified the MCx solution as compliant with the relevant ETSI TS 103 564 „PlugTest Scenarios for mission critical services" in relation to 3GPP standards assessed and demonstrated.



MCX.lib Client Framework - Program library



# Next-Gen Dispatcher Solutions

## About Kontron Transportation

Kontron Transportation is a leading global supplier of end-to-end communication solutions for mission-critical networks. With a longstanding focus on the railway sector, the company specializes in systems that produce, transport, and process voice, data, and video — reliably, securely, sustainably, and efficiently.

Its portfolio includes GSM-R, FRMCS (Future Railway Mobile Communication System), MCx (mission-critical services, including MCx OTT) with IWF (interworking functions), as well as enhanced radio solutions, private 4G/5G mobile networks, transmission networks, and cybersecurity solutions. Kontron Transportation also serves other mission-critical industries with tailored

communication solutions and offers mobility products such as validators and fare collection systems for public transport operators.

For more than 30 years, the company has helped shape railway communications and continues to drive the evolution of broadband communication solutions for mission-critical networks, for instance as an associated member of Europe's Rail Joint Undertaking (EU-Rail), making it the perfect partner for FRMCS.

The company has more than 700 employees, operates 11 sites across Europe, and is headquartered in Vienna.

**Kontron Transportation** is part of the Kontron Group.

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The Power of IoT