

CCOM - Customer-Specific Software Development

MapService

17.06.2021 | Jens Hennes

About the Presenter



Jens Hennes

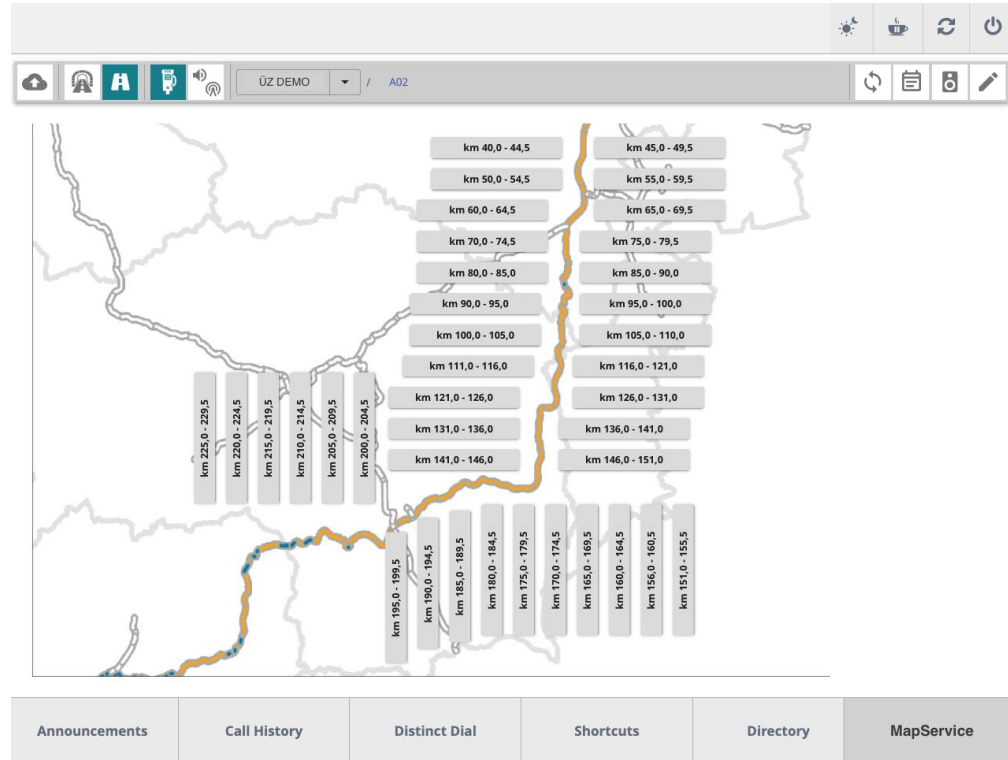
Senior IT-Architect Communications

- 20 years expertise in IP communication
- Software Developer and HW Support Specialist
- Developing custom software solutions around CONET UCRS-core system



Introduction to MapService

A custom addon,
providing special
functionality,
to an existing
Communication-Control
Web-App



Agenda.

01 MapService Overview

02 Motivation

03 CONET – UCRS

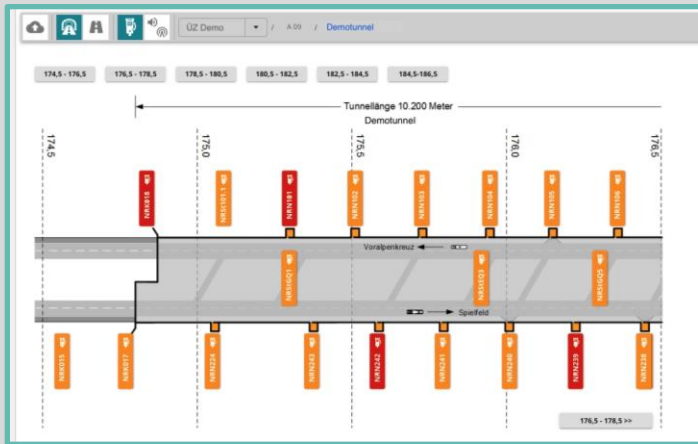
04 Overall System Design

05 CCOM - What can You expect

06 Thank's for listening



MapService Overview



MapService ?

Displays custom regional maps to...



- Identify the origin of emergency calls from Emergency Roadside Phones
- Provide direct access to speakers for audio announcements in tunnels
- Show information about failed audio devices

Motivation

- 01** Strategic decision to remove customer specific components from core product
- 02** Requirement to update customer's installation to a new version
- 03** → Extract customer specific features into separate application



What ?

- UCRS was born from the requirement of implementing third-party audio systems into IP-Telephony
- UCRS allows for audio conferencing via any audio device imaginable
- UCRS provides a web-based GUI to control audio devices and audio conference

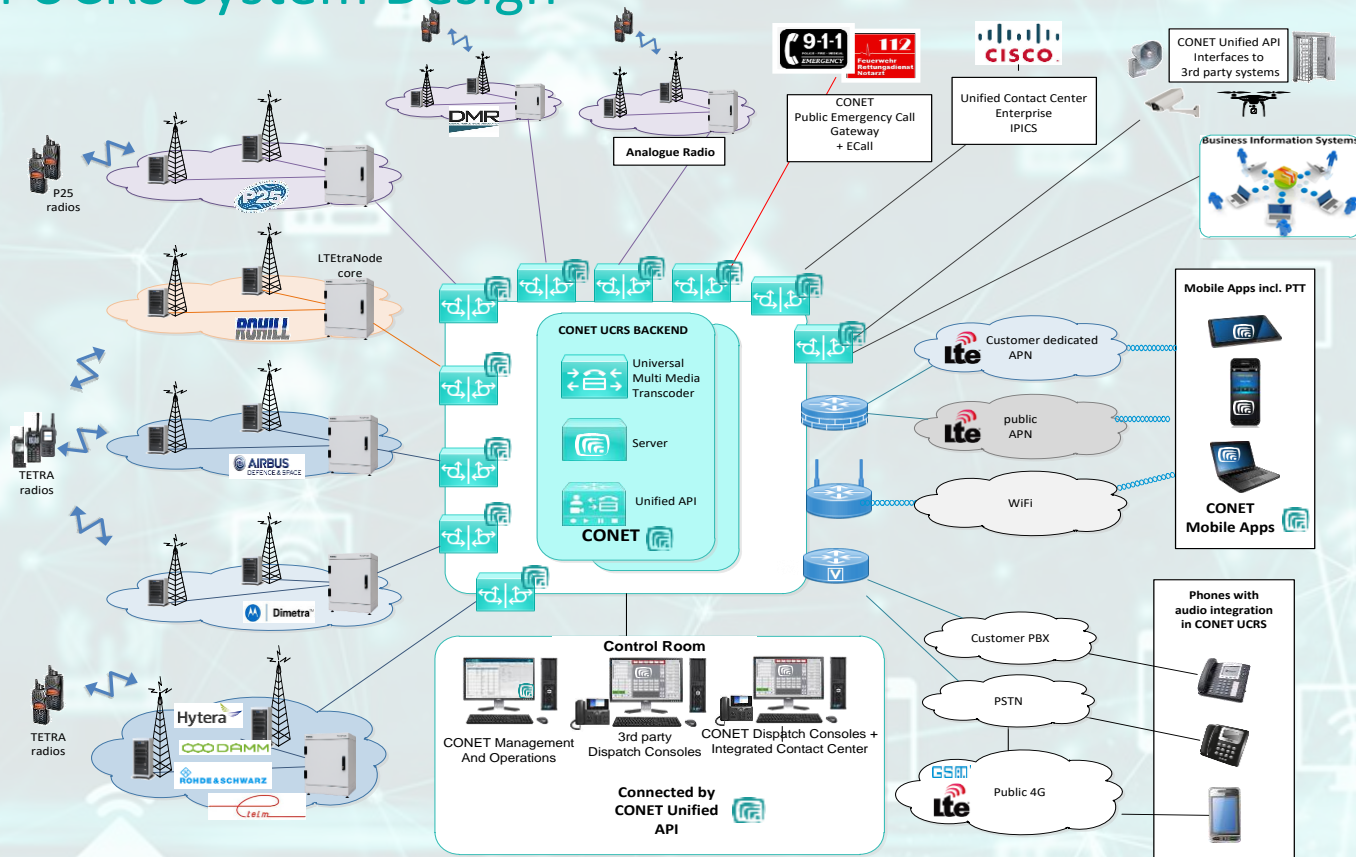
Why ?

- Radio systems are often used by companies and authorities as fail-safe or to cover large areas
- The ability to mix radio with VoIP telephony is a KPI

How ?

- JAVA core application
- C++ audio processing
- JavaScript UI

Overall UCRS System Design



CCOM - What can you expect ?



Interesting Technology

- VoIP, Radio, VPN, lifecycle management
- JAVA, Vert.x, JavaScript, C++, Go, build automation

Teamwork

A team of 60+ colleagues work together to develop, install and maintain communication systems for customers

Great Challenges

Technical and logical challenges will keep you busy

Friendly Colleagues

We maintain a friendly, multi-cultural and supporting work environment, where every opinion counts

The background of the slide is a dark blue field filled with a network of glowing white and teal nodes connected by thin white lines. Faint binary code (0s and 1s) is scattered throughout the background.

Thank you for listening!