



connect4rescue.

Better connected in an emergency.

Content

01

umlaut telehealthcare GmbH
Part of Accenture

02

The “Telenotarzt”

03

The connectivity solution
behind

04

Our solution with Vollaphone



umlaut telehealthcare GmbH part of Accenture

We are 35+ specialists in the field of emergency medicine:
(tele)emergency doctors, paramedics, engineers and developers.

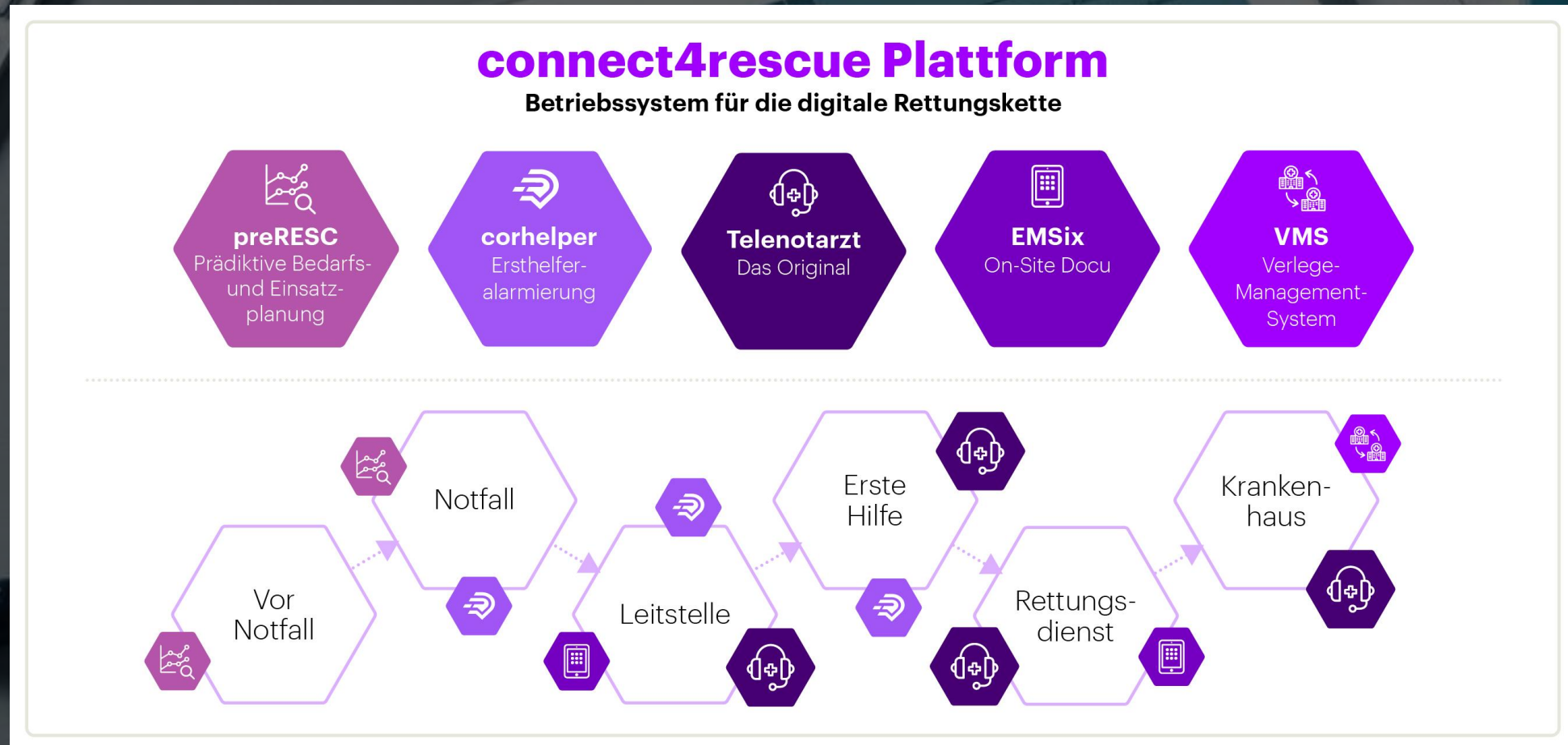
From the mission- for the mission.



We are the Telenotarzt.

The digital rescue chain- our vision and commtment.

Overview and current portfolio.





50.000+

successful tele-
EMS-physician
missions.

85+

trained tele-
EMS-
physicians.

100+

equipped
ambulances.



35+

motivated
employees.

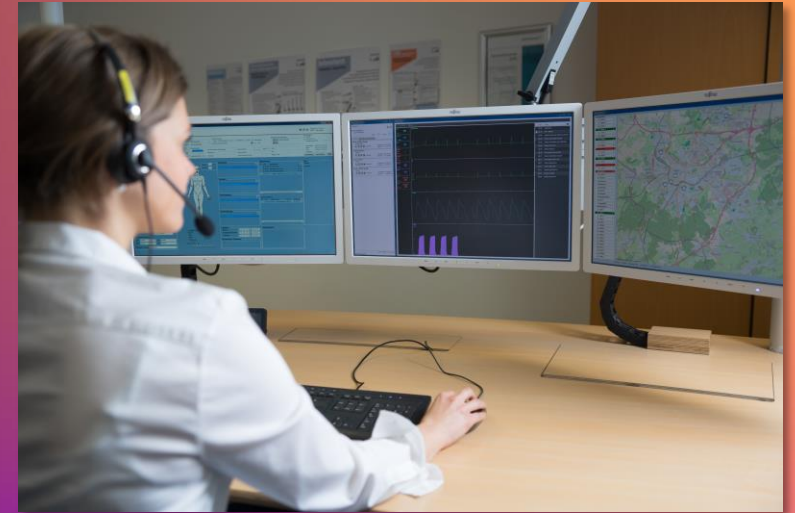
The Telenotarzt

The „Telenotarzt“ provides telemedical support in emergency medical systems.

A remote physician can join an emergency mission at the push of a button.

Connectivity solutions that are especially designed for this use case provide reliable voice and data communication.

With the support of the paramedics the remote physician can be as effective as if he was on the mission site.



Telenotarzt.

The Original – Since 2014.

We have experience

Our overall telemedical solution, which has been successfully used in regular rescue services since 2014.

Always in service

The tele-emergency physician is on call 24 hours a day, 365 days a year.

Nationwide available

Guideline-based approach and access to region-specific procedural instructions enable supra-regional cooperation.

Data transmission

Direct **transmission of vital data, photos and videos** for initial diagnosis and medical treatment.

Always available

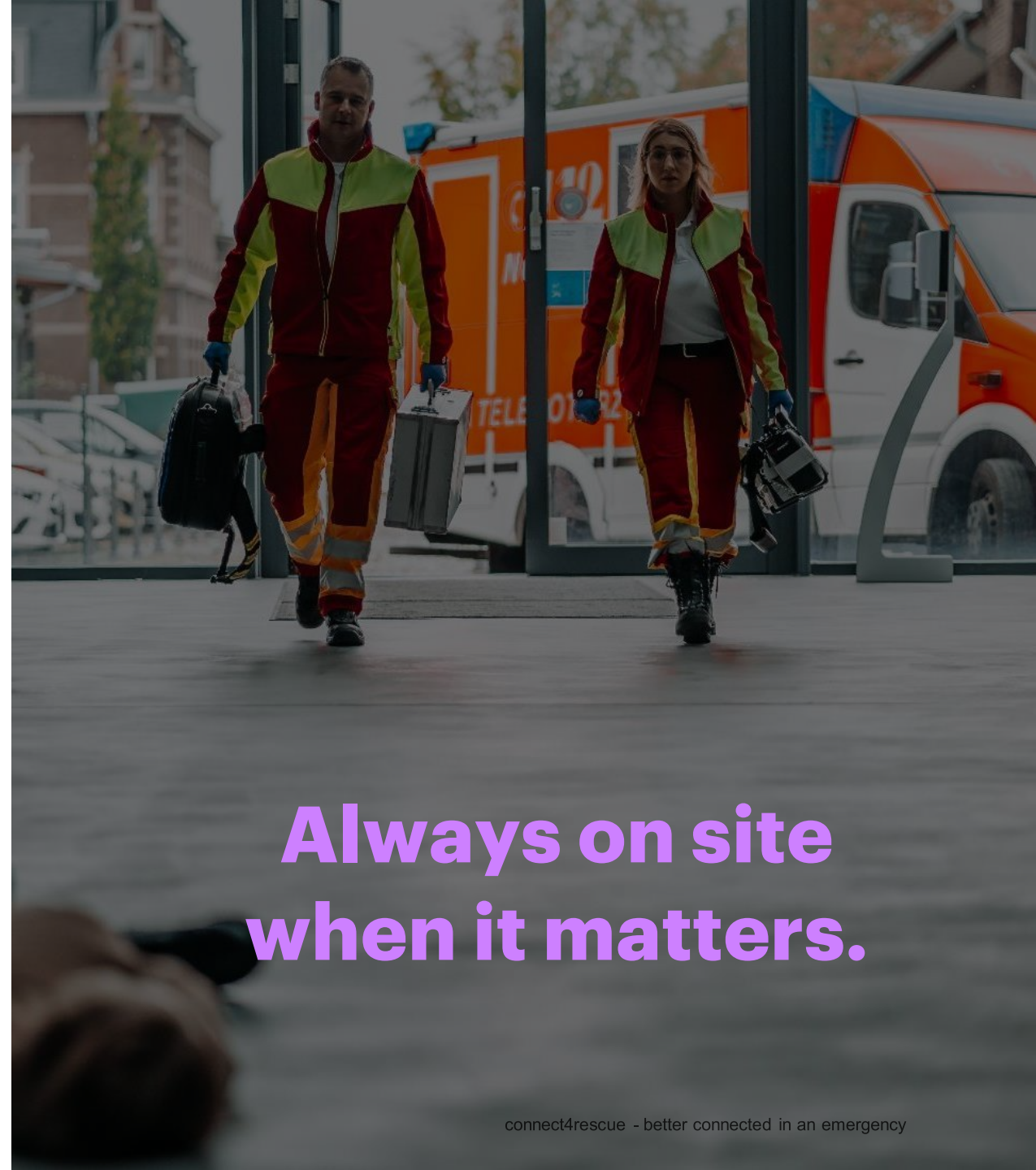
Specially developed telecommunications technologies enable a stable connection - even in regions with poor network quality.

On site at any time when it matters!



Operational scenarios for the Telenotarzt.

- Telemedical support for rescue service personnel without an emergency physician on site.
- Takeover of transport assistance of emergency patients by the tele-emergency physician.
- Management of secondary interhospital transports.
- Supervision and quality management by the tele-EMS-physician.
- Support for the ground-based emergency physician on scene.

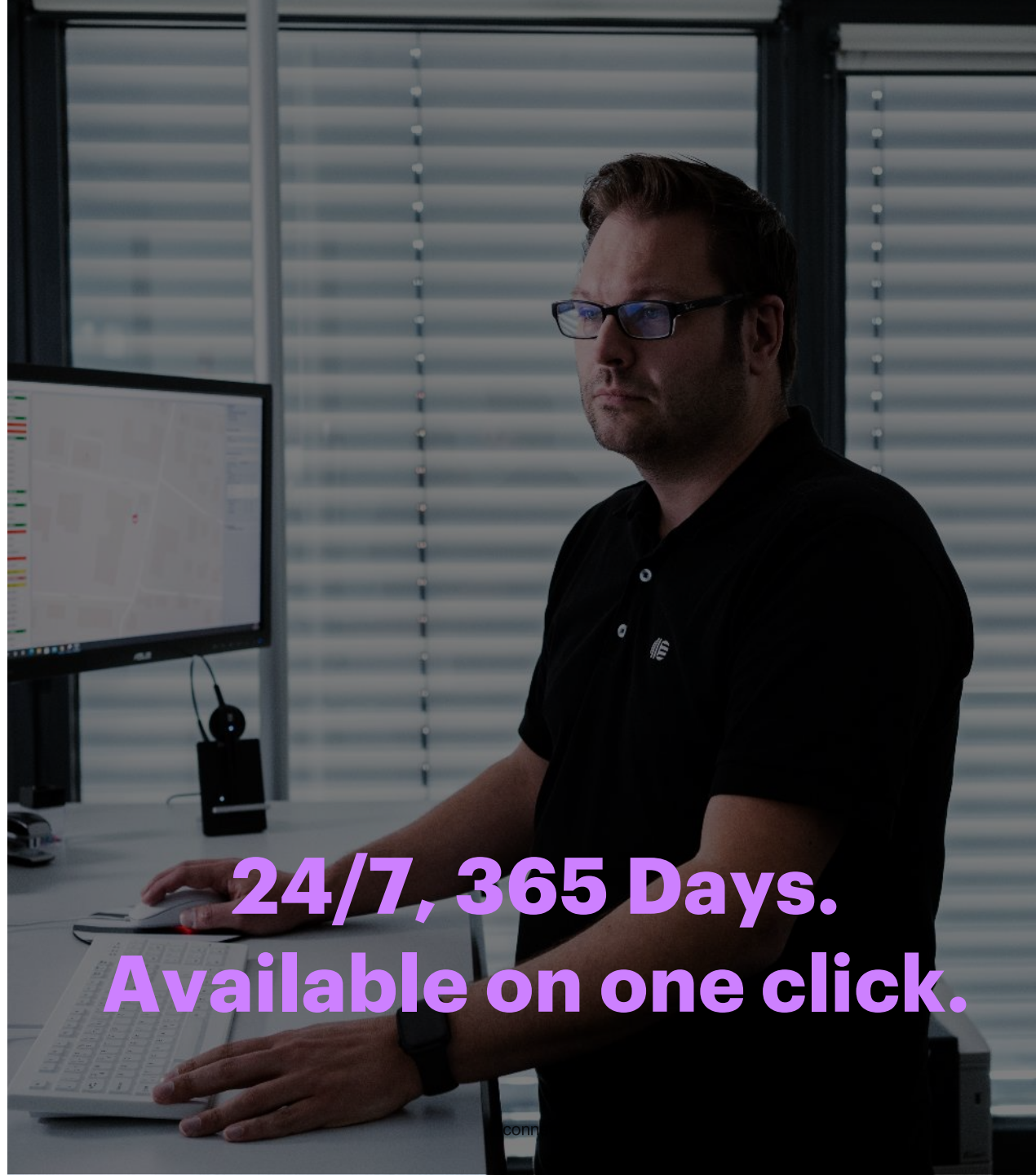


**Always on site
when it matters.**

Telenotarzt Center Station.

Emergency medical expertise 24/7.

- Digital emergency management par excellence
- Bidirectional connection to mission control systems and external documentation and information systems.
- Documentation mask for different mission types: primary, secondary, consulting deployment
- Inbox for mission documents (images, PDFs, etc.).
- Printed mission Report.

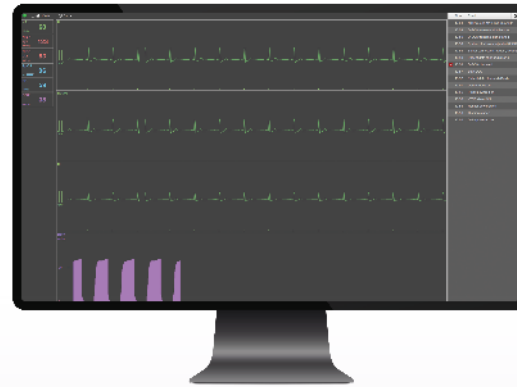
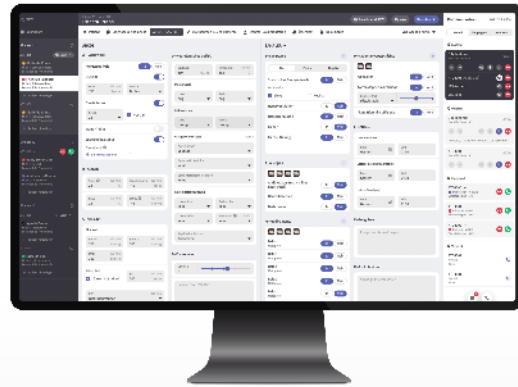


**24/7, 365 Days.
Available on one click.**

Overview EMSix TNA Docu

- Workflow optimized, simultaneous documentation and networking of all those involved in the rescue operation along the ABCDE/SAMPLER scheme.
- Real-time synchronization of all rescue resources.
- Qualification-dependent interfaces (emergency physician, tele-EMS-physician, paramedics).
- Developed from scratch.
- Seamless connection and integration into EMSix On-Site Docu.



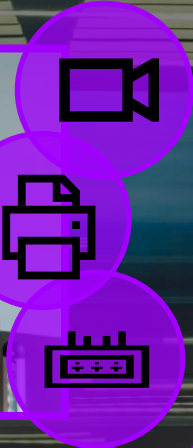


Now some technology



Telenotarzt System.

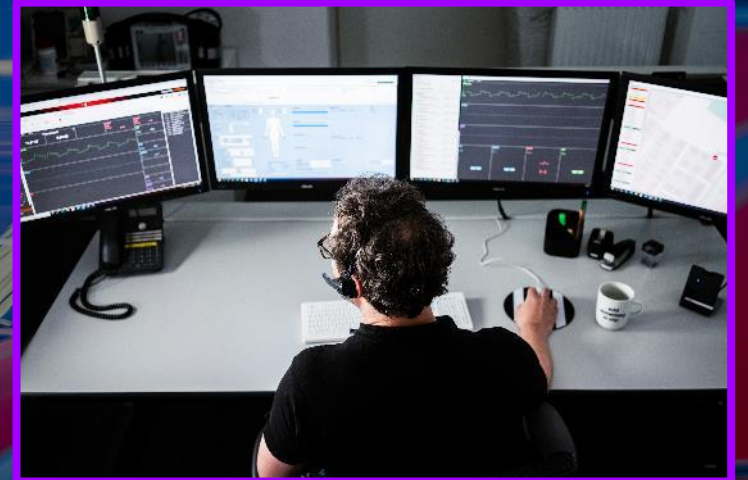
AMBULANCE



Audio
Communication

Video
transmission

TELENOTARZT



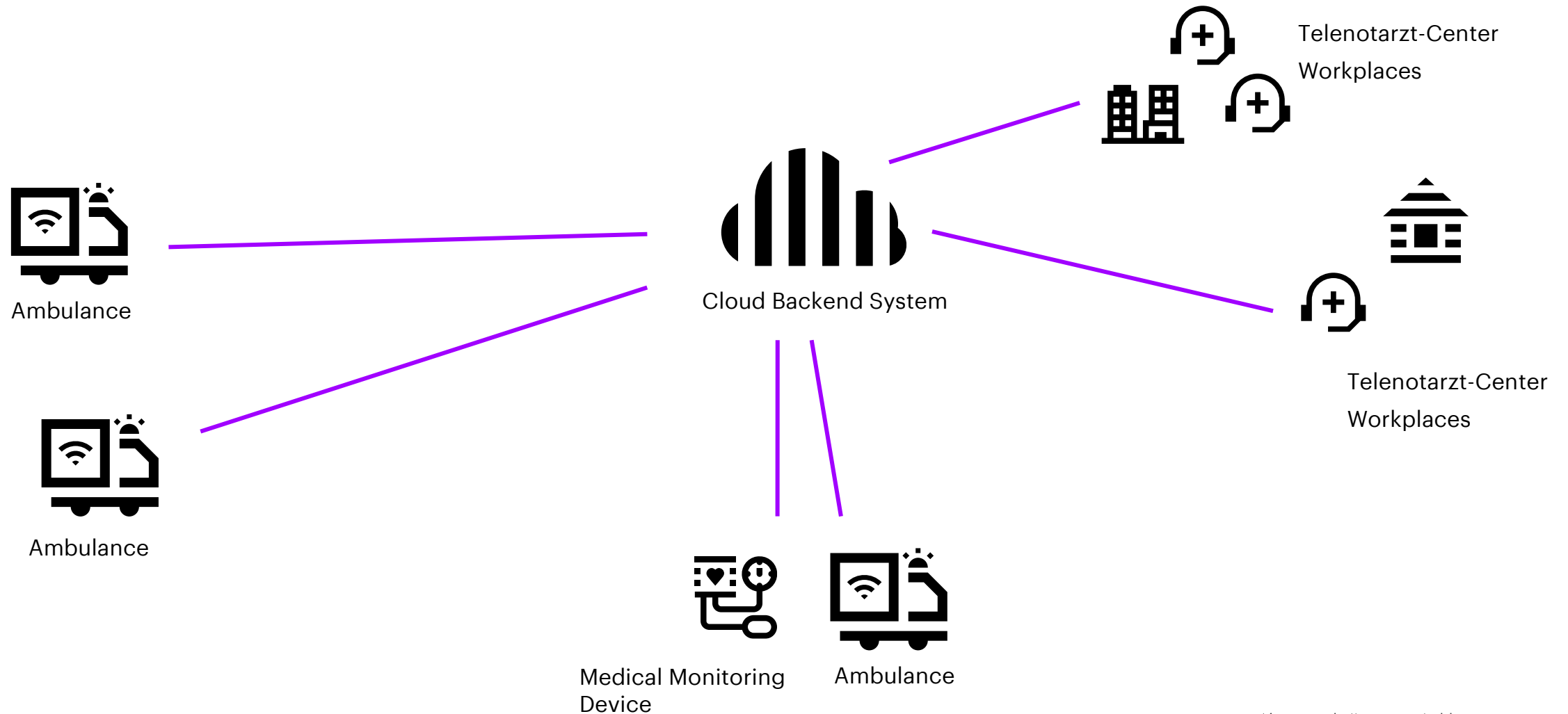
MISSION



Vitaldata-
transmission

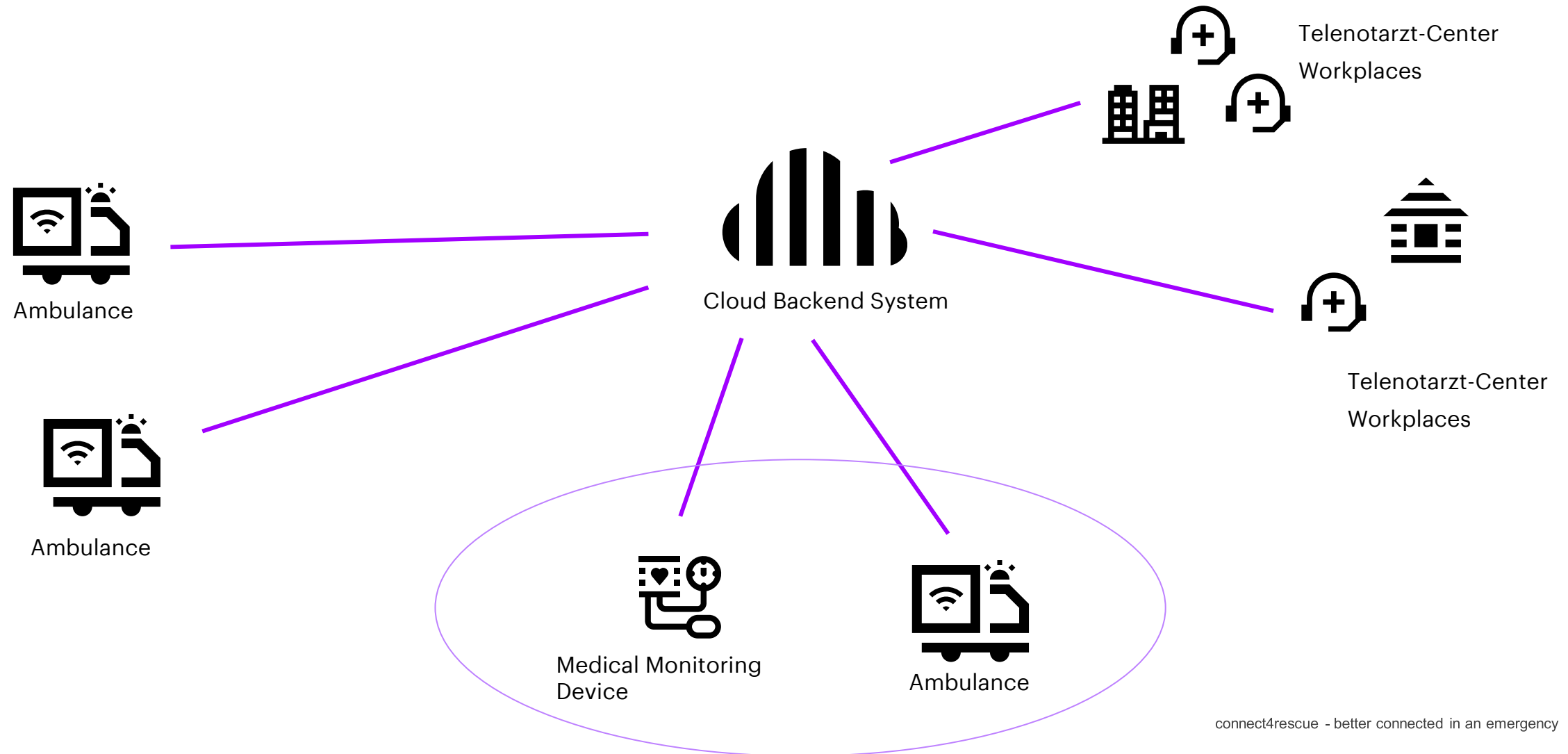
Photos
transmission

Simplified System Architecture



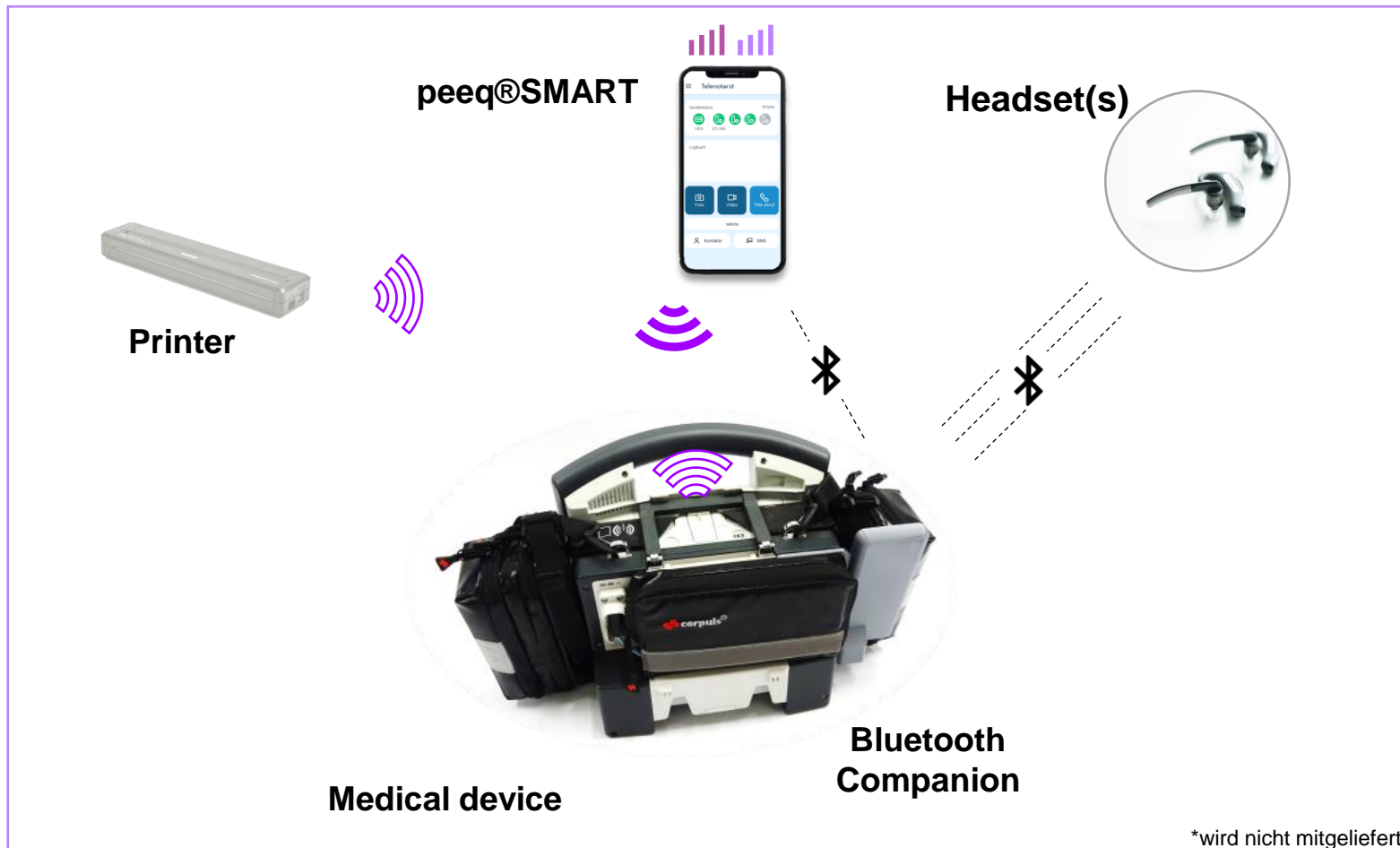
Simplified System Architecture

On-Site Connectivity



On-Site Connectivity

peeq®SMART as main communication device



- **WiFi hotspot for medical device**
- **Dual-SIM dual-standby cellular connectivity**
- **Routing of medical device data toward telemedical platform**
- **Voice communication between up to 3 users (headsets) and the remote physician**
- **TNA-app for**
 - **Foto**
 - **Video**
 - **Pre-announcement (triage)**
 - **Voice call**

Our Solution with Vollaphone

peeq®SMART

providing the best connectivity from two different cellular networks – completely automated.



- **Dual-SIM Dual-Standby (DSDS) device can be registered to two different cellular networks at a time**
- **peeqSMART monitors both networks and situationally selects the best network as the active network for both voice and data**
- **peeqSMART can connect to WiFi as an additional optional interface for data**
- **peeqSMART provides Internet Access for other devices connected to the peeqSMART softAP WiFi**

peeq®SMART

Making the telephysician part of the mission at the push of a button



- **All networking and connectivity functionality completely automated – paramedics can focus their attention to the patient**
- **peeqSMART adapts to the local connectivity situation – creating a robust communication channel with up to 99% availability***
- **This functionality cannot be built with COTS Smartphones**

Our Solution With Vollaphone

Hardware

- Volla X23
- Ruggedized Smartphone
- Modern Chipset
- Long-Term Support



Software

- peeq®SMART OS
 - Customized Version of the VollaOS
 - All advantages of VollaOS (e.g. Google-free and GDPR compliant)
 - Integration of peeq® applications

Services

- Mobile Device Management
- Application Repository
- Development Support
- OS maintenance
- OTA delivery

Thank You.



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