



mobile services for
Public Safety

Product **Overview**

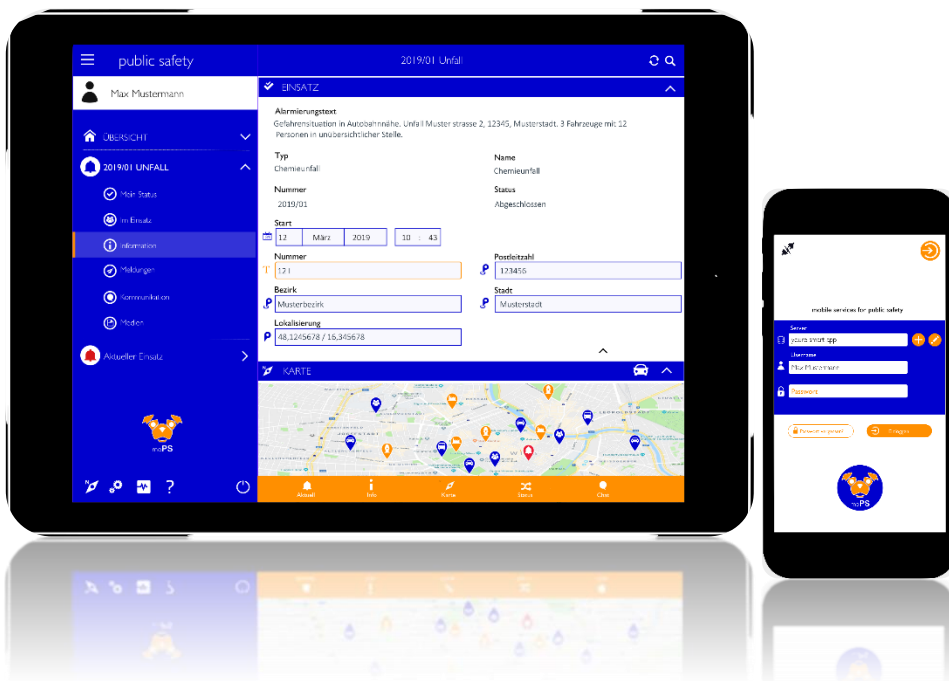
moPS enables Public Safety on your mobile Device!

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The responsibilities of **Public Safety & Security Agencies** are numerous and often require field activities. **moPS** mission is to support these responsibilities and to provide the employees on site with current data, to integrate them into the digital work processes and to promote teamwork.

Our development environment, the **moPS Toolbox**, enables the easy and fast development and deployment of mobile applications supporting the specific requirements of users in the **Public Safety & Security Domain**.

These mobile applications do not require any special prerequisites and can run on any personal mobile device. **COTS Smartphones, Tablets or Notebooks**; company or privately owned.



moPS APPS



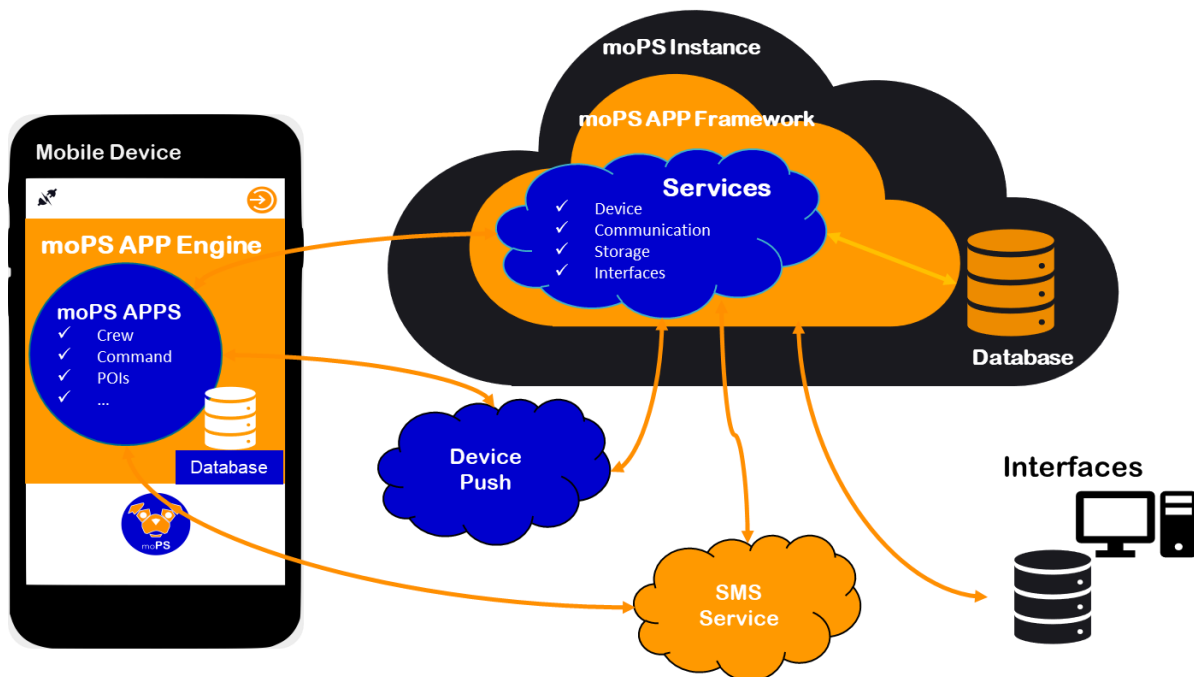
The integration of enterprise applications and mobile applications is essential for a working environment of Public Safety & Security Organizations. Unified single purpose APPS are the basis to support tasks in the field.



moPS develops and markets **moPS APPs**, a portfolio of mobile application tailored for Public Safety & Security Organizations. The technological foundation is the **moPS Toolbox** as the development environment. This environment consists of

- **moPS Framework and**
- **moPS APP Engine**

allowing fast and efficient creation, distribution and operation of mobile applications.



moPS System Design



In the Public Safety & Security Sector, many people work in the field for the safety of the citizens. Most use a smartphone or tablet privately or professionally. This is a huge potential to enable effective mobile workflows in the field.

The **moPS APP Framework** is the server-side foundation for the development of the moPS APPs. The framework consists of application- and communication services, as well as a database for persistent data storage. These services provide the functionality required in the Public Safety & Security domain.

moPS APP Framework together with the corresponding database forms a **moPS Instance**. Such an instance can be deployed On-Premises, on Microsoft Azure or on any other cloud supporting Microsoft Windows Server. Various deployments are possible:

"Software as a Service" on Microsoft Azure

Dedicated Instance on a customer owned infrastructure

Shared Instance as tenant on shared infrastructure

The **moPS APP Engine** is a mobile app available for all current smartphones, tablets or notebooks. The **moPS APP Engine** is the host app for all **moPS APPS** which are executed within the engine. Within the moPS APP Engine, all moPS APPS assigned to the user are provided. The user accounts of a moPS instance manage and organize this deployment.

- **the moPS APP Framework provides application services for the moPS APPS**
- **the moPS APP Framework supports multiple relational databases**
- **the moPS APP Engine is available on all App-Stores or can be deployed for customer MDMs**
- **the moPS APP Engine supports all mobile platforms and device types**
- **the moPS APP Engine acts as host for all moPS APPS, which run inside the engine**

- **the moPS APP Engine simplifies and streamlines the distribution moPS APPS to mobile devices**

From sending alarm messages to complex command & control workflows. Public Safety & Security Organizations support resources in the field during several workflows.

moPS APPS are a family of APPS supporting mobile workflows for Firebrigades, Police, Ambulance and other Public Safety & Security organizations.

moPS APPS are intuitive „Single Purpose APPS“ tailored for the needs of Public Safety & Security

moPS APPS can be used „stand-alone“ or as mobile frontend to enterprise applications like Computer Aided Dispatch or Records Management

moPS APPS are software products created and maintained by MOPS GmbH. Customers and development partners can use the **moPS Toolbox** to create and maintain their own APPS.

moPS APPS are defined in a meta-language. The definition includes user interface, functionality and data model. The meta-language allows fast and efficient creation of **moPS APPS**.

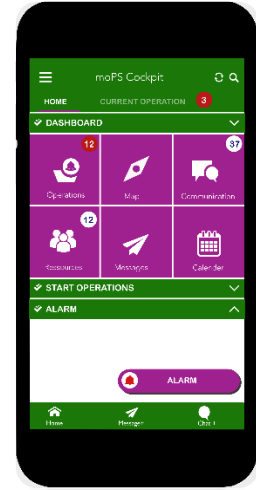
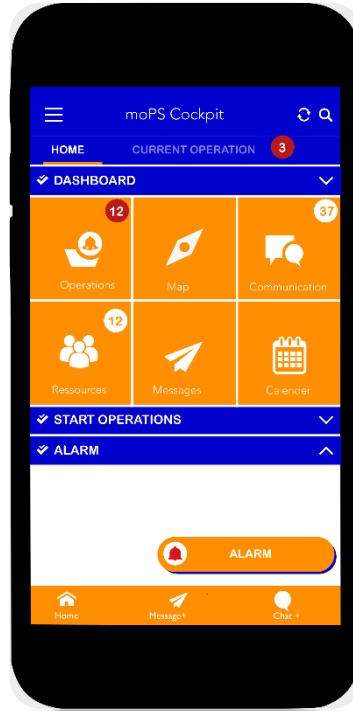
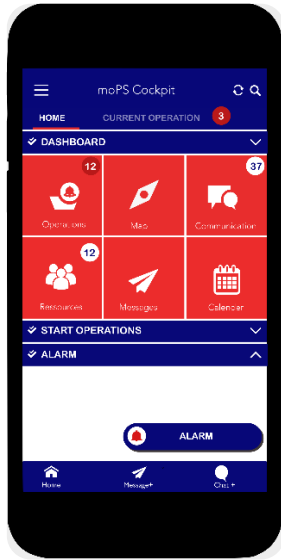
Simple APPS can be as little as a few hundred lines of configuration in XML format.

The XML File will be posted to a moPS Instance.

The moPS APP Engine is available in App Stores of Apple, Google and Microsoft and can be installed anytime.

The moPS APP Engine connects to that moPS Instance, loads the XML and the user can start working.

The creation of a simple moPS APP needs a few hours, the deployment a few minutes. After that the moPS APP is available on all current mobile platforms and device types.



moPS APPS with Color Schemes

An efficient support during critical situations in the field is the most important requirement for mobile solutions for Public Safety & Security agencies.

moPS APPS model the workflows of personal in the field as „Single Purpose APPS“ for all roles required whereby users can have single or multiple roles.

Examples **moPS APPS** are:

Crew for staff working incidents (moPS crew)

Vehicle as mobile terminal in cars (moPS vehicle)

Command for commanders in the field (moPS command)

Center for Command & Control in a small center (moPS center)

Object for collection and distribution of POIs information (moPS object)

moPS APPS utilize the capabilities of the **moPS Toolbox**

- ✓ **to implement workflows for individual roles on mobile devices,**
- ✓ **to support work items in the context of workflows,**
- ✓ **to efficiently use of alarms via mobile devices,**
- ✓ **to integrate communication and collaboration in the workflow.**

Streamlined workflows and clearly defined tasks, structured processing, and an user oriented interface. Mandatory elements in a mobile application experience for Public Safety & Security Organizations.

moPS APPS for easy and efficient mobile communication and collaboration:

Mobile Workflows optimized for different roles

Smart Forms and Listviews for easy and efficient use

Integrated Map to provide geospatial orientation and interactive usage

User Administration information about users, organizations and devices

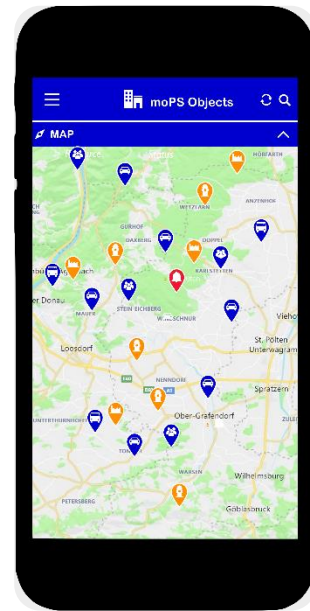
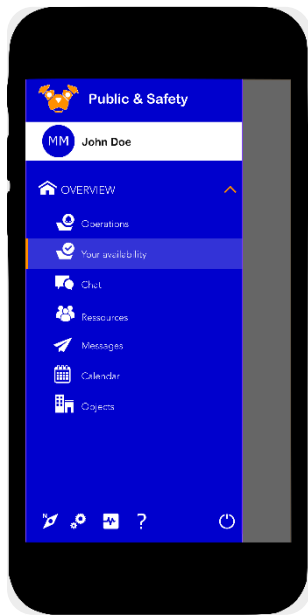
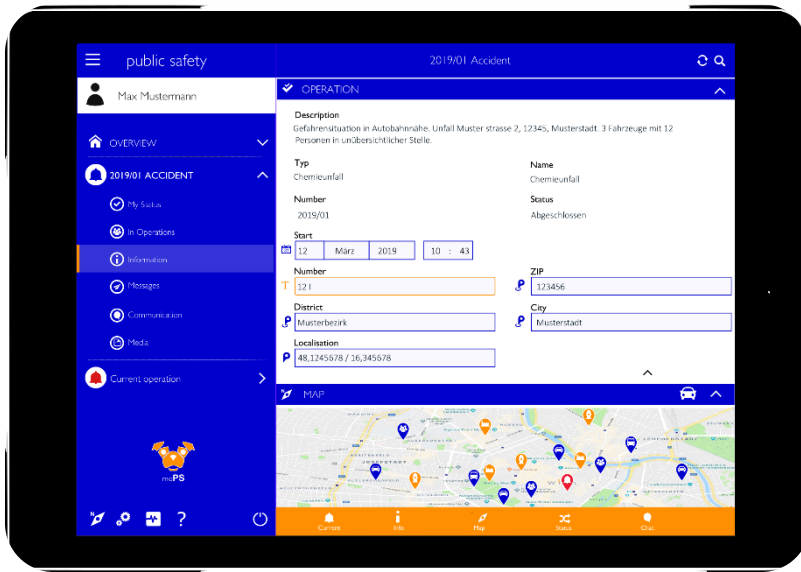
Encryption of data on all devices and all connections

Offline Usage including automatic synchronization

Integration through interfaces with enterprise systems

moPS APPS create a new user experience for the mobile user through:

- **Text and voice input**
- **Media, photos and videos**
- **Geocoding, geotracking and geofencing**
- **Mobile file management**
- **Reliable and safe alarming and messaging**
- **Responsive user interface**



moPS APPS for Smartphones and Tablets

Digital maps with visualization and processing of location-related information are of outstanding importance in supporting public safety & security organizations during field operations.

moPS APPS integrate maps into specific mobile workflows for the Public Safety & Security users. To achieve this the generic geospatial capabilities of the mobile platforms are used and complemented by advanced features:

Usage of device maps (Google Maps, Apple MapKit, Bing Maps)

Usage of additional data sources through the WMS/WNTS standards

Support of raster and vector data

Display of streetmaps and aerialmaps

Capture and display of object data (POIs)

Capture and display of point, line and area information

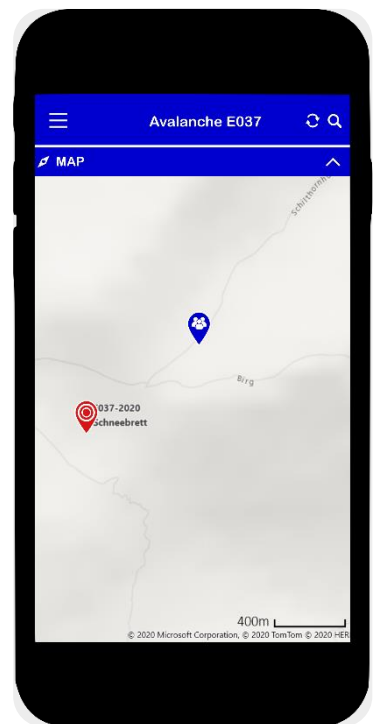
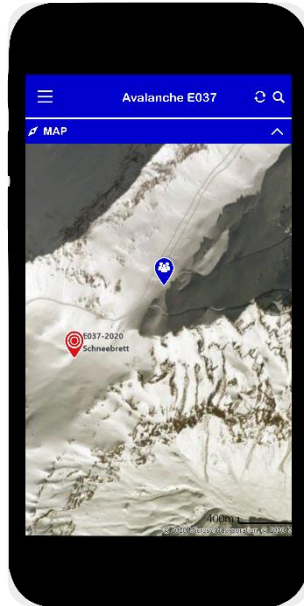
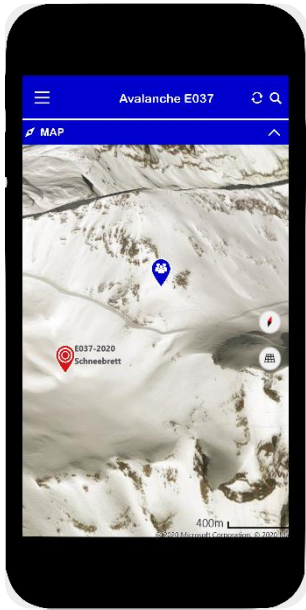
Caching for fast display performance

Offline capabilities if no connection is possible

Routing, Geotracking and Geofencing

moPS APPS provide map capabilities through a tailored userinterface for mobile devices and mobile users.

- **Touch interface**
- **Measurement**
- **Snapping and Drag & Drop**



moPS APPS Map Views

Public Safety & Security organisations take on critical tasks. Reliability, safety and speed are therefore the indispensable foundation of communication and exchange of information in on-site use.

moPS APPS enable mobile devices - smartphones, tablets und notebooks – to be a reliable tool for Public Safety & Security Organizations. For this purpose optimized communication capabilities make it possible to provide users in the field with data, to integrate users into the digital workflows and improve team collaboration.

moPS APPS support

Device Push for Apple, Google and Microsoft platforms

Push Messages are signaled optically and acoustically at the device. Signaling works in all states of the APP and the device.

Push Actions enable users to execute actions immediately when a push message arrives without the need to start the APP first.

Encryption of all communication paths

SMS as secondary channel possible



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