

mecom Medien-Communications-  
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## **Feasability Study Mold-Alert**

Company Profile and References

## **Company Profile mecom**

### **mecom – Global benchmark for alerting systems**

Floods, power outages, fires or other hazards: In exceptional situations, the ability to alert the population quickly and easily is of crucial importance. We ensure that people in Germany receive timely alerts via all relevant channels.

Commissioned by the Federal Republic of Germany, we designed a complex alerting system, which we have been operating and developing further for more than 20 years. This technical alerting infrastructure is unique and ensures that people in Germany receive alerts via all relevant channels at all times.

We transmit alerts through the following alerting channels and devices, among others:

- TV, radio, online
- Alerting apps
- Cell Broadcast
- Digital city billboards
- Passenger information systems
- Sirens
- Further alert multipliers, such as news agencies, organizations, public authorities and companies, that disseminate alerts to their customers and users

### **Everything from a single source: We support our customers end to end**

We are experts for the transmission of sensitive data and the provision of fail-safe communication channels. With decades of experience, we design, develop and operate technical infrastructures for our customers and partners.

No two projects are the same. Consequently, we work holistically and create solutions for our customers' individual requirements. We ensure fail-safe communication channels and develop technologically and logistically coherent solutions tailored to specific needs.

We not only work for public authorities and news agencies, but for media outlets and companies as well. Providing comprehensive services including consulting and project development as well as practical implementation and maintenance, we stand by our customers' sides from the word go, consistently in accordance with the highest standards and criteria of IT baseline protection in Germany.

## **mecom's alerting system: A pioneer in the fail-safe transmission of alerts in Germany**

We are Germany's pioneer in the fail-safe transmission of alerts and one of the leading players in the field of safety-critical communication.

With our data centres redundant 24/7/365, our latest-generation server infrastructures and state-of-the-art networks, we ensure an extremely high degree of fail-safety. Our customer service is available 24/7.

For high security transmission and reception of safety-critical information, we use mecom's proprietary sat-uplinks (ground stations) with secured frequencies. Operating our own satellite network, we use several redundant antennae and high-frequency systems to ensure that messages always reach their recipients.

## **Leading the way is in our DNA**

We have always had our eye on the future and on finding solutions for the technical challenges of tomorrow. We were the first in Germany to develop the business areas of alerts and the secure transmission of messages.

In 1989 several German news agencies joined forces with the aim of transmitting their news and images to their customers via satellite, quickly and simultaneously. Consequently, they founded mecom, which has been transmitting news agency content to the media and other recipients ever since.

To this day, we guarantee the fail-safe transmission of information in the editorial news business. This is how we safeguard reporting on TV, on the radio and in newspapers.

Be it news agencies, security authorities or companies – our technical infrastructure, which is unique in Germany, enables us to send information to the right recipients in a matter of seconds and in a tamper-proof manner.

## **mecom – a joint venture of European news agencies**

mecom Medien Kommunikations-Gesellschaft was founded in 1989 by several news agencies.

Today, mecom is still jointly owned by the news agencies German Press Agency (dpa), Agence France-Presse (AFP), Gemeinschaftswerk der Evangelischen Publizistik (GEP), Katholische Nachrichten-Agentur (KNA) and dpa-AFX Wirtschaftsnachrichten. The German Press Agency (dpa) group is mecom's majority shareholder. As a result, we enjoy an exceptionally good reputation with the media, authorities and in the business world.

## Services Provided

- Consulting & Concept Development: Tailored solutions based on extensive experience.
- Project Management: Use of classic, agile, or hybrid methods to professionally manage projects.
- Software Development: From IT architecture to live operation.
- Research Projects: Support for research institutions with data collection and analysis.
- Quality Assurance: Implementation of manual and automated tests, defect management, and reporting.
- Customer Service: 24/7/365 support.
- Data Center Operations: High availability through redundant data centers.
- Own Satellite Ground Stations: Secure transmission and reception of critical information.
- Security Operations Center: Analyzing technical vulnerabilities to ensure system reliability.

## Activities of mecom in the field of Public Warning

### Products

mecom has been developing and operating products, systems, and communication facilities for many years, including as the German warning system MoWaS (Modular Warning System). These include, among others:

- Operation of an independent communication network via satellite, including its own ground station (uplink)
- Development/operation of MoWaS, including secure input systems at all authorities with a warning mandate
- Development/operation of the MoWaS web application
- Operation of own geo-redundant data centers
- Delivery to various multipliers (radio, television, online media, pagers, warning apps like NINA, digital city information boards, cell broadcast, sirens)
- Connection to Cell Broadcast (development of CBEs, issuance of multilingual warning messages)
- Connection to sirens via BOS digital radio
- MoWaS test environment
- MoWaS training environment
- Secure Data Hub (SDH) – Development and operation of a system for exchanging warning messages from various German (DWD, LHP, BSH, etc.) and European warning systems (NL-Alert, BE-Alert, DK-Alert) with MoWaS

## Consulting Projects

Parallel to the development and operation of MoWaS, mecom has continuously provided advisory services to federal institutions (BBK) and states (e.g., NRW) in national and European projects (ISF) and various projects in the warning environment over the past two decades. A selection of these projects includes:

- **TPEG2-EAW** - Implementation of **CAP** on TPEG2 EAW for transmitting warning messages via DAB+ to vehicles
- **Galileo EWS** – Advising BBK in cooperation with the **Galileo** project group to optimize Galileo warning messages, particularly considering the requirements for connection to MoWaS
- **Cell Broadcast** – Gathering requirements for warning via Cell Broadcast in preparation for the Technical Guideline
- Galileo EWS / **Stellar** – Advising on the preparation and implementation of a Galileo demonstration in NRW, with significant involvement in developing test scenarios considering special requirements of warning scenarios such as geographical requirements (accuracy, size, and shape of warning areas), message sizes and sequences, quantities, and content capacities of the Galileo system, etc.
- Audio Output through **Sirens** - Advising in a pilot project for sending acoustic announcements through small sirens in the city center of Kaiserslautern
- Siren connection via BOS digital radio – Advising on connecting sirens to the German PWS MoWaS
- Multilingualism of warning messages
- Warning effectiveness at warning multipliers

## Creation of Analyses and Concepts

- Requirements analysis for planning MoWaS (web application + MoWaS 2.0)
- Professional concept for "Mass Data Evaluation" of social media data
- Professional concept for "Warning in case of Critical Infrastructure Failure"
- Professional concept for "Warning via New Systems"
- Professional concept for "Warning via BOS Digital Radio Network"
- Professional concept for satellite telephony
- Professional concept for Mobile PWS
- Conceptualization of a siren control from MoWaS via BOS digital radio

## Current Participation in Research Projects

- MIRKKOMM (Multimodality in Risk and Crisis Communication), analysis of the communicative interplay of authorities, media, and other public actors in preparation for and management of crises using target group-specific communication (using the example of the COVID-19 pandemic); including usability study on the use of MoWaS
- Model project "Strengthening the Resilience of a Rural Region in the Pre-Alpine Area"; creation, evaluation, and rehearsal of operational and communication plans for various disaster and crisis scenarios.

## ISO 27001 certification on the basis of IT-Grundschutz

In June 2024 mecom received the ISO 27001 certificate based on IT-Grundschutz.



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