



Swedish Civil Defence  
and Resilience Agency



**SWEN**

The Swedish Emergency Network

# SWEN – The Swedish Emergency Network

Every society depends on first responders that act during different societal disruptions, natural disasters, ongoing deadly violence, terror, and ultimately war. Fire and rescue services, healthcare services, police, defence, civil defence and critical infrastructure operators carry responsibilities that must not fail. In order to support them, their communication must be secure, reliable, available, and resilient – no matter the circumstances.

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Photo: Adobe Stock, Daniel Vincek





To meet this need, the Swedish Emergency Network, SWEN is being built – a next-generation digital network for public safety and civil defense. Powered by transmission services and 5G technology, SWEN enables more efficient communication, seamless information sharing, and advanced machine-to-machine (M2M) connectivity.

SWEN represents a fundamental shift from its predecessor. While introducing new capabilities, it ensures continuity by smoothly migrating existing functions in the TETRA-network, to the new platform.

**SWEN**



# The Strategic Shift

By adopting the 3GPP 5G standard, SWEN becomes part of a global framework for mission-critical services. This provides long-term sustainability, international interoperability, and continuous development. Communication services for public safety and civil defence is no longer an isolated solution but part of a global standardized ecosystem.

A transition to a 3GPP, 5G based platform provides users with a future-proof mission-critical communications solution. All core functions from the TETRA based system (Rakel) will remain, with gradual enhancements to improve collaboration among connected mission-critical organizations.

This strategic shift strengthens societal resilience. Just as energy and transport are recognized as vital infrastructure, communication must also be governed and secured with the highest level of reliability.

# Governance and Control

SWEN is designed as a hybrid network, combining the capacity and coverage of commercial mobile networks with strategically reinforced infrastructure under governmental control.

This model enables innovation and at the scale of commercial networks with the accountability and sovereignty of public governance and ownership, ensuring both resilience and trust in mission-critical communication.

## The governance model ensures that:

- SWEN remains independent of commercial interests
- Security, prioritization, and operational control are ensured at the national level
- Public governance ensures long-term stability and neutrality



Photo: Swedish Civil Defence and Resilience Agency, Johan Larsson

# Advantages and new possible capabilities for Mission-Critical use

## New technology

- Real-time situational awareness through body cameras and drones.
- Mobile access to data sources, such as patient information for ambulance personnel.
- Biometric authentication for secure communication.
- Automated reports and video evidence streamline administration.

## An even more efficient preparedness chain

- Improved real-time analytics support operations and risk management during societal disruptions.
- Automated processes facilitate collaboration and information exchange.

## A broader foundation for decision-making

- Improved situational overview through images, video, and data for response evaluation.
- Safer assessments at accident and disaster sites using map data and video.
- Predict and prevent risks with real-time information.

# Examples of Supported Mission-Critical Use Cases



## Public Safety and Emergency Services

Police, fire, and ambulance services rely on guaranteed, prioritized communication in dynamic environments.



## Civil Protection and Disaster Response

Large-scale incidents and natural disasters require resilient co-ordination across multiple agencies, on local, regional and national level.



## National Security and Civil Defence

SWEN provides a secure platform to protect national interests and manage external threats.



## Critical Infrastructure Operators

Organizations within the areas of energy, transport, healthcare, and other vital sectors can rely on SWEN around the clock, and under extraordinary critical conditions.



## Government and Public Authorities

Public authorities require secure and resilient communications to coordinate leadership, share information and ensure continuity of essential government functions in both routine operations and crisis situations.



## Large-Scale Events and Public Safety Management

Major public events such as international sports competitions, festivals, concerts and state ceremonies require reliable and secure communications to coordinate public safety operations.



Photo: Swedish Civil Defence and Resilience Agency, Melker Dahlstrand

# A Foundation for the Future

SWEN is a long-term investment in national preparedness;

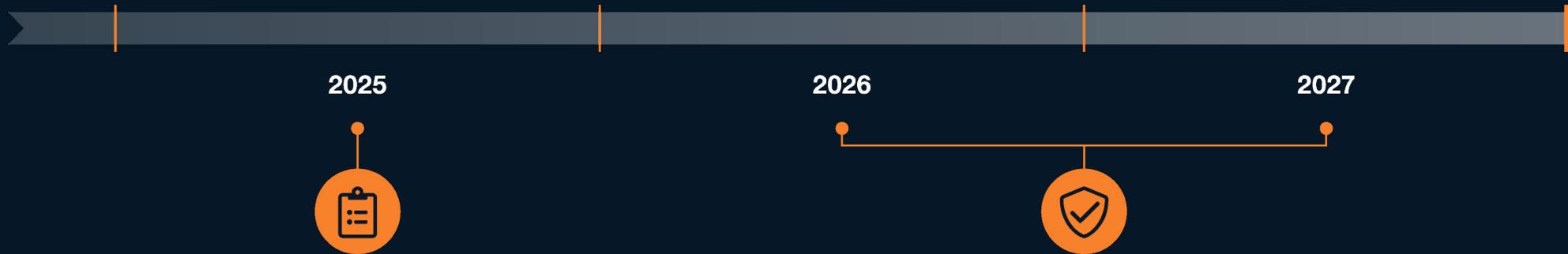
- Scalable architecture allows growth and adaptation to new technologies.
- Interoperability ensures integration and coordination with both domestic and international partners.
- Sustainability is built in through reliance on global standards and governmental oversight.
- By combining modern 5G technology with strategic governance, SWEN will serve mission-critical organizations for decades ahead.

# Implementation Timeline

The implementation of SWEN is carried out step by step, with clear goals and milestones to ensure a safe transition

Plans are established and continuously adapted as needed, including timelines, expected benefits, and organizational structure. Public procurements are initiated, while the core network and the migration solution are established to provide the foundation for mission-critical mobile broadband.

Major procurements are completed. A pilot system starts in 2026 and evaluated throughout 2027 to secure functionality and usability. By the end of 2027, the basic services are ready for nationwide rollout.



The migration from TETRA to 4G/5G begins in 2028. During 2028, pilots for extended services are introduced, including 3GPP Mission-Critical Services (MCX).

All user organizations transition to the new system have migrated. The current TETRA network is gradually decommissioned, while SWEN continues to evolve with new features to meet future needs.



# **SGSI – Secure VPN Services for mission- critical organisations**

Within the framework of SWEN, SGSI (The Swedish Government Secure Intranet) will be provided as a secure VPN service separated from the internet, providing robust and encrypted IP communication for mission-critical use and applications.

Use-cases include national and international (within the EU and Schengen area) intra-agency communication, as well as internal intranet usage for larger national user organizations. Additional services within SGSI include encrypted mobile devices (PGAI Mobile) and centralized services to support mail, video conferencing and network functions (domain name system and network time).





Photo: Swedish Civil Defence and Resilience Agency

# **WIS – a national situation awareness and information-sharing system**

WIS is a national situation awareness and information-sharing system, which is designed for Sweden's civil preparedness to support crisis management, coordination and collaboration between authorities, municipalities, regions and other actors. WIS will be accessible within the framework of SWEN. It allows stakeholders to quickly exchange verified information and create a shared situational awareness during everyday incidents, major emergencies and national crises.

First responders who we have entrusted our lives, health, property and security. Deserve a communication platform with services and applications that reflect the gravity of their task at hand.

With SWEN, Sweden establishes a robust, secure, and future-proof infrastructure. Governed by the state and powered by modern technology, SWEN ensures that mission-critical organizations are supported by communication as dependable as their mission is vital. In the end, mission critical communication is about being there for the people in need.





# The Swedish Emergency Network

Photo: Erik Odiin on Unsplash

## Sign up and be a part of the journey

To ensure that SWEN delivers the functionality and value that user organizations need, we will carry out various activities. These activities aim to promote collaboration and innovation which includes established as well as new initiatives.

Sign up for our newsletter and get the latest news about the development of SWEN!



The Swedish Civil Defence and Resilience Agency is the leading, directing, and coordinating authority for Sweden's civil defence. The agency ensures that society is prepared for crises, heightened alert, and war. It develops and strengthens our society's overall capabilities so that we can act together if the worst should happen. We coordinate and unify preparations to protect the population in the event of war, thereby maintaining the will to defend the country. We help ensure that emergency services are able to operate in everyday situations, during emergencies and accidents, and ultimately in wartime. The agency manages emergencies both nationally and internationally and acts as an ally in times of war.

Together for a strong civil defence



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