Impact on Service industry 2G – 3G Switch off

Meeting DG Connect

Feb 5 2025

Who we are

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Euralarm is the leading European association representing the fire safety and security industry, providing leadership and expertise for industry, market, policy makers and standards bodies.

Our Members make society safer and more secure through systems and services for fire detection, extinguishing systems, security systems and alarm receiving centres.

Founded in 1970, Euralarm represents over 5000 companies, members are national associations and individual companies and other stakeholders from across Europe.

Extinguishing Section   Fire Section   Services Section   Security Section

Our Members

Industry Members :
Product & system manufacturers
as well as integrators & service providers

National Trade Associations :
Country associations who represent
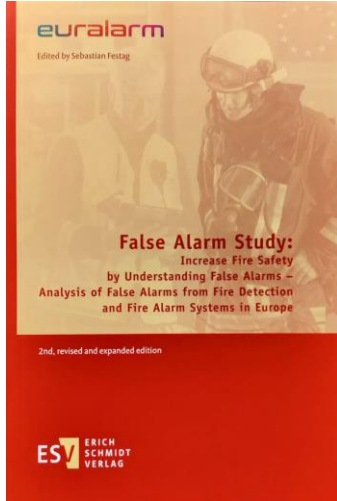and support our industries locally

Associate Members:
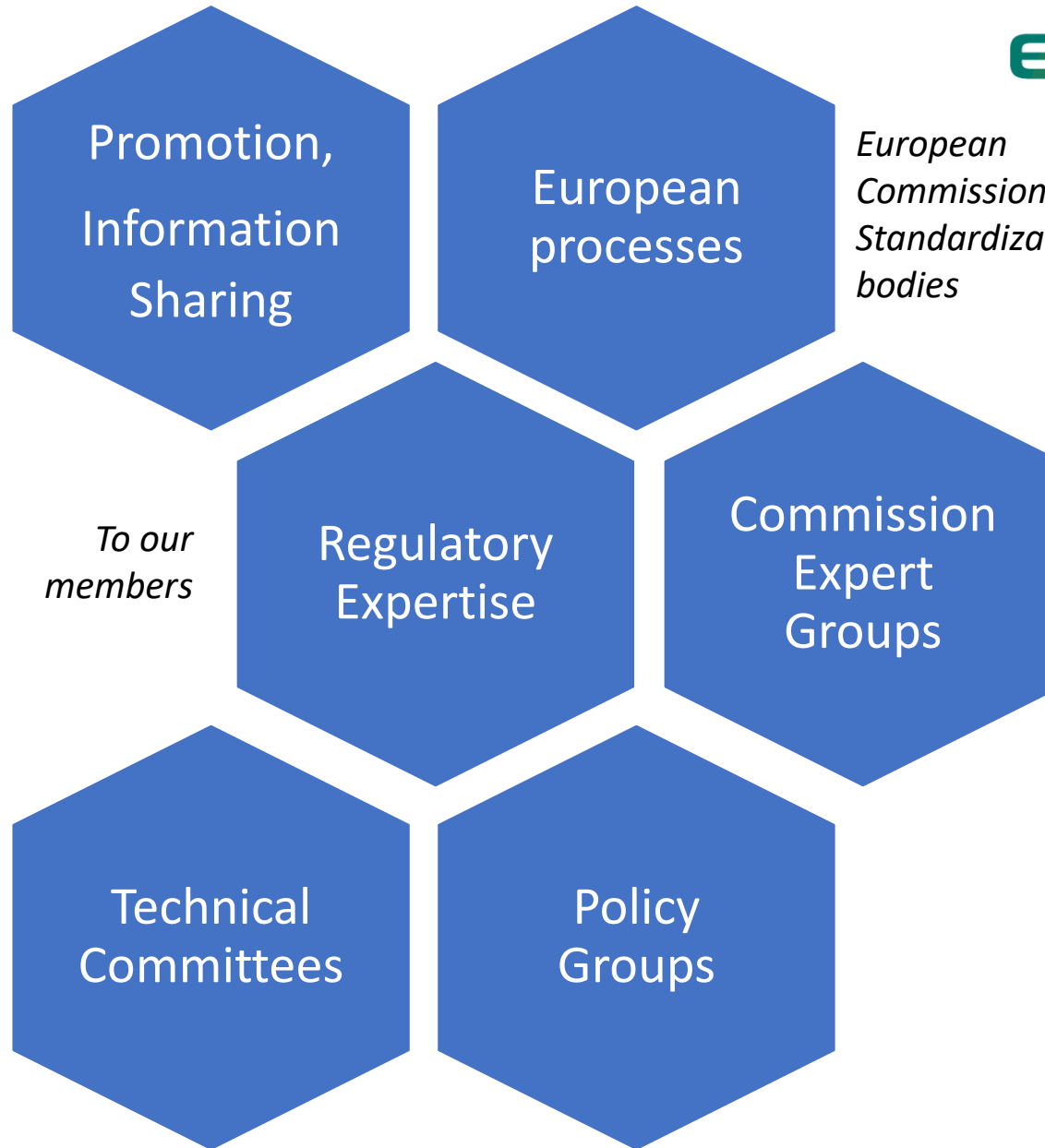Companies &
organization active in
our industries

What we do

Euralarm: Guidance on Remote Services

SYSTEM MAINTENANCE

False Alarm Study: Increase Fire Safety by Understanding False Alarms – Analysis of False Alarms from Fire Detection and Fire Alarm Systems in Europe

Live-webinar: Integrated fire protection solutions for Lithium-Ion batteries — Alan Elder, Gerd Hülsen - Euralarm Extinguishing Section

Liaison at Cen/CENELEC with
JTC4 , JTC13 , SF-SEC , TC72, TC391, TC442, TC79, TC215, TC216, IECTC79, ISO 21

Promotion, Information Sharing

European processes

European Commission & Standardization bodies

To our members

Regulatory Expertise

Commission Expert Groups

Technical Committees

Policy Groups

SECURITY AND FIRE INDUSTRY CYBERSECURITY THREAT OR OPPORTUNITY? IT'S UP TO YOU!

RED 2014/53/EU — Radio Equipment Directive for Europe

EN 50131

2G/3G switch off: Complete lack of visibility

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The facts:
- Communication networks change and are updated to new technologies
- The **life cycle of Communication Network are becoming shorter**
- Our industry is **highly dependent on the network evolution** as we provide services to end-users using public mobile networks
- Our services are key for the security and safety of people, real estate and infrastructure
- Millions of systems and services in the EU are depending on these technologies
- There is a **complete lack of visibility and coordination** between the telco operators and the rest of the industry in this regards.

A change of network impacts on our industry:
- New product / Software development /Hardware adaptation
- Manufacturing /Testing & Certification
- Workforce- Training- Installation– Replacement

To make a successful transition and prevent failures an agreed plan between our industry and network providers is critical, as network connectivity is a key element to ensure products and services performance

Where are we?

Impact on:

Remote monitoring	Remote monitoring and alarms
	Health telemonitoring
Housing	Securing access
	Telealarm lifts
	Teleelevators and meters
Tele-assistance	Remote assistance for dependent and isolated persons
	Home Health Tele-Assistance
Payment	Payment terminals
Geolocation and monitoring	Object tracking and geolocation
	Remote monitoring and control
Consumer Connectivity	Mobile phones
	Mobile equipment
Security	Human security and emergency services

Security/safety devices have a very long life (up to 20/25 years)

Where are we?

2G Switch off

3G already phased out in many EU countries

Next 4G/5G evolution? Another challenge for the Industry

Legend:
- 🟩 at least one operator supporting 2G
- 🟢 phase out announced without date
- 🟥 phase out date known
- ⬜ No phase out date planned

Most countries have multiple providers and the phase out dates are not in sync with each other. Table takes longest serving provider into account. Data is dynamic due to announcements from the different providers

Installed Base - Migration

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Multi Millions of devices are still installed and operational across the EU.

A Migration to new solutions take time :
- **Technical solution are not yet available for all applications**
  - Needs development time / investment
  - Certification (segment approvals – third party testing)
  - Degradation of Services
- **Capacity**
  - Shortage of working force / qualified people
  - Training and resources need to implement all changes at field
- **Cost**
  - Development / certification for the industries
  - For the service provider – impact of service agreement
  - Customers : building owner, local government, end-user ....

Communication Technology Evolution

Technology	Introduced	Phase-Out (Approx.)
PSTN	Late 1800	2000 ongoing
ISDN	1986	2025 ongoing
1G	1970-1980	2000
2G	1991	2020 ongoing
2.5G	Late 90'	2020 ongoing
3G	2001	2020 ongoing
4G	2009	2035-2040
5G	2019	

Uncertainty:
- To what technology they should migrate?
- How long will a new technology last ?

Our Challenges

Challenges:

- Time needed to update installed base

- Availability certified replacement solutions

- Certified working force shortage

Most systems from our industry connected on 2G and 3G network have a direct connection with the safety and security from people, real estate, infrastructure ……. The **industry alone can not manage the transition**, it will need an agreed transition plan between our industry and the telecom providers

Support needs

EU level Support needed:

- Clear Roadmap on life cycle technologies (also new ones)

- Demand minimum time between announcement and switch off

- Sync switch off with the development, certification, installation time and network coverage

Delaying 2G/3G will reduce cost, avoid unnecessary replacements and uncertainty, and smoothen the transition, and not just push the issue forward: by 2030, the transition will have taken place are "normal pace" reducing unnecessary cost and uncertainty

Possible next steps for a competitive and safe union

- **Push for 2G/3G continuity for a phased 5G implementation**: Push Member States to ensure the ongoing availability of 2G/3G networks during the 5G rollout. This is vital for supporting legacy devices, essential services, and sectors that still rely on 2G/3G, such as emergency systems and IoT applications, during this transitional period.

- **Harmonize timeline for 2G/3G shutdown**: Seek a coordinated phase-out across all Member States, with a timeline extending to at least 2030. This will minimize service disruptions, reduce societal cost and promote a more cohesive digital market.

- **Make clear that EECC Article 45 can be used to intervene**: Clarify to Member States that EECC Article 45 enables them to intervene, even for frequencies that have already been allocated.

- **Demand minimum time between announcement and switch off :** Push Member States to demand, at least, some conditions for the shut down.

Thanks

for a safer and more secure Europe

Installed Base – Migration process

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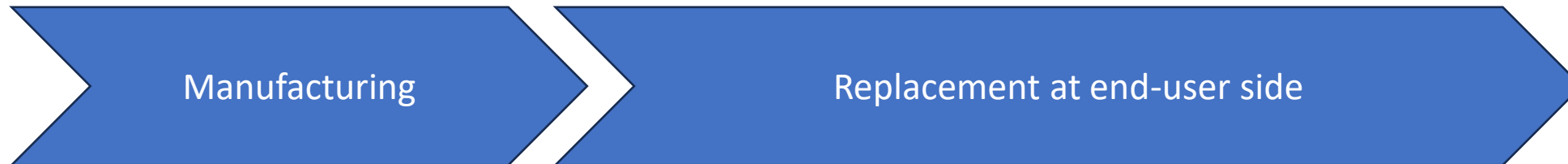| Awareness on network phase out | Development replacement products | Certification new products |

Different per:
- Country
- MSO
- Technology

Development and product ready for certification takes average 18-24 months

There is external certification needed, can be specific per country

| Manufacturing | Replacement at end-user side |

Will start after certification process is completed

- Visit to end-user needed
- Up to date communication hardware and/or replacement of system needed
- Overall timing: volume depending on country - technology