

*D1.2. – Report on the Definition
of the Generic Users
Requirements*



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Outline of the document



1. Executive summary
2. Current generic requirements
3. Generic user requirements addressed by TETRA
4. Emerging generic requirements
5. Conclusions
6. Main references
7. – 10. Annexes

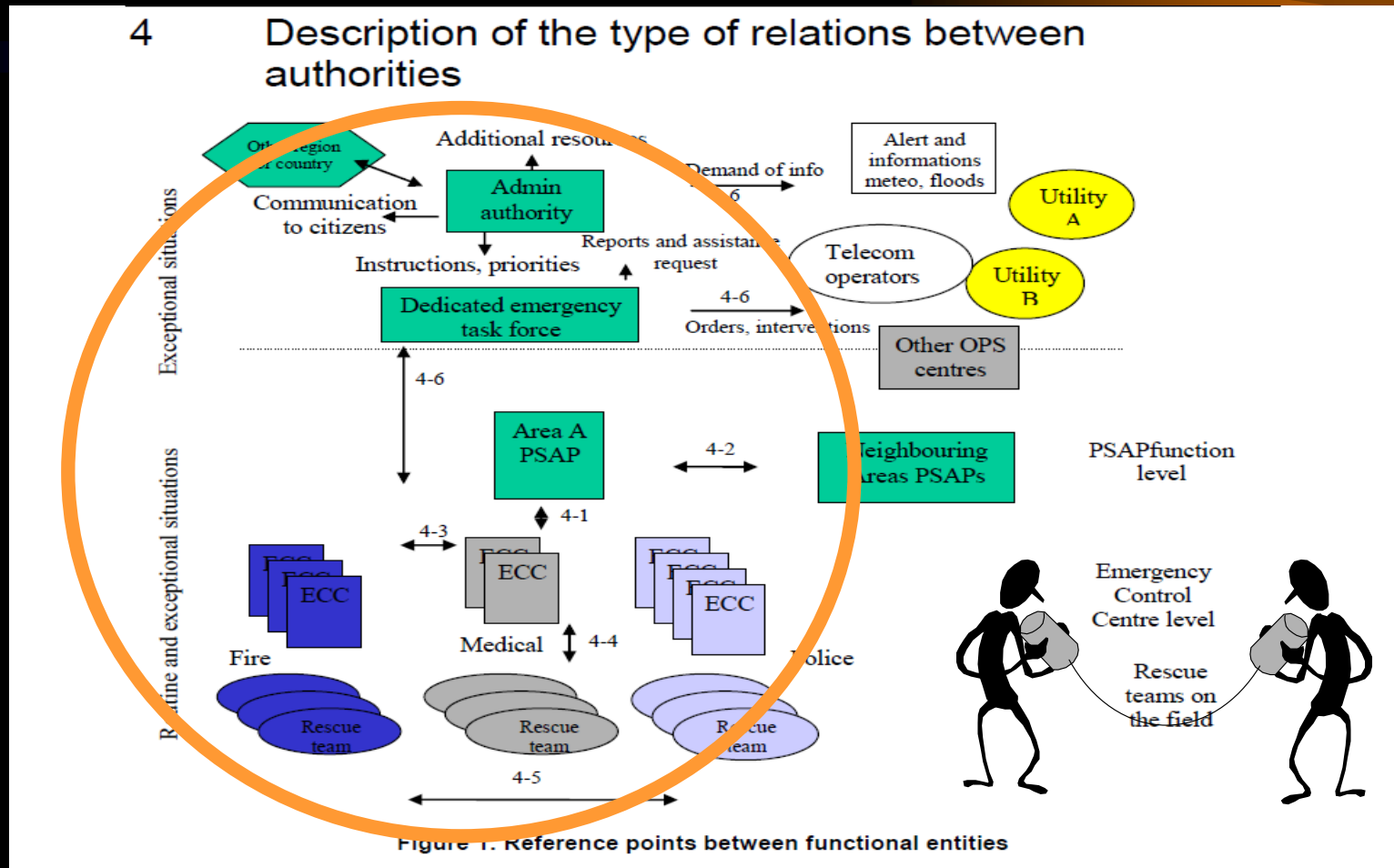
2. *Current generic requirements*

Typology of communication requirements:

- Inside and in between authorities and organizations
- Citizens to authorities and organizations
- Authorities and organizations to citizens
- Amongst citizens



Inside and in between authorities and organizations



Citizens to authorities and organizations

4 Description of the type of relations between authorities

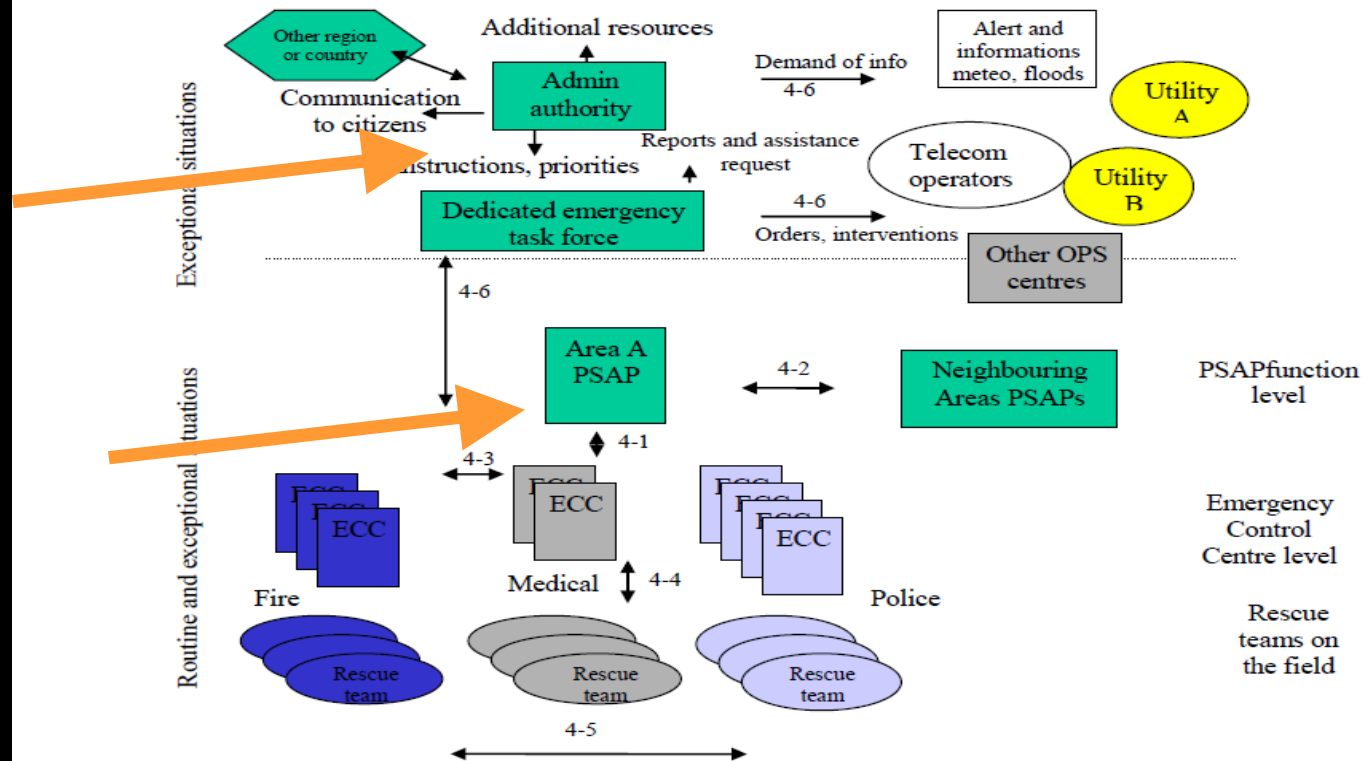


Figure 1: Reference points between functional entities

Authorities and organizations to citizens

4 Description of the type of relations between authorities

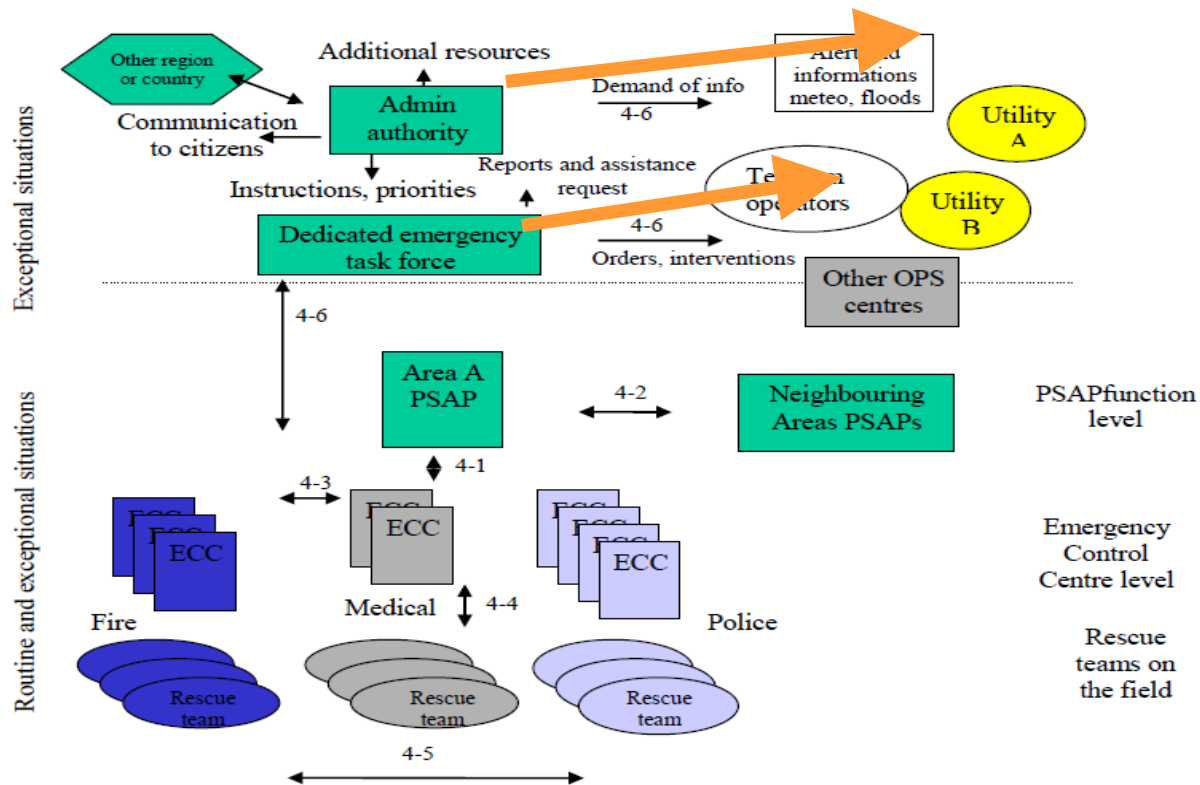


Figure 1: Reference points between functional entities



Amongst citizens

Description of the type of relations between authorities

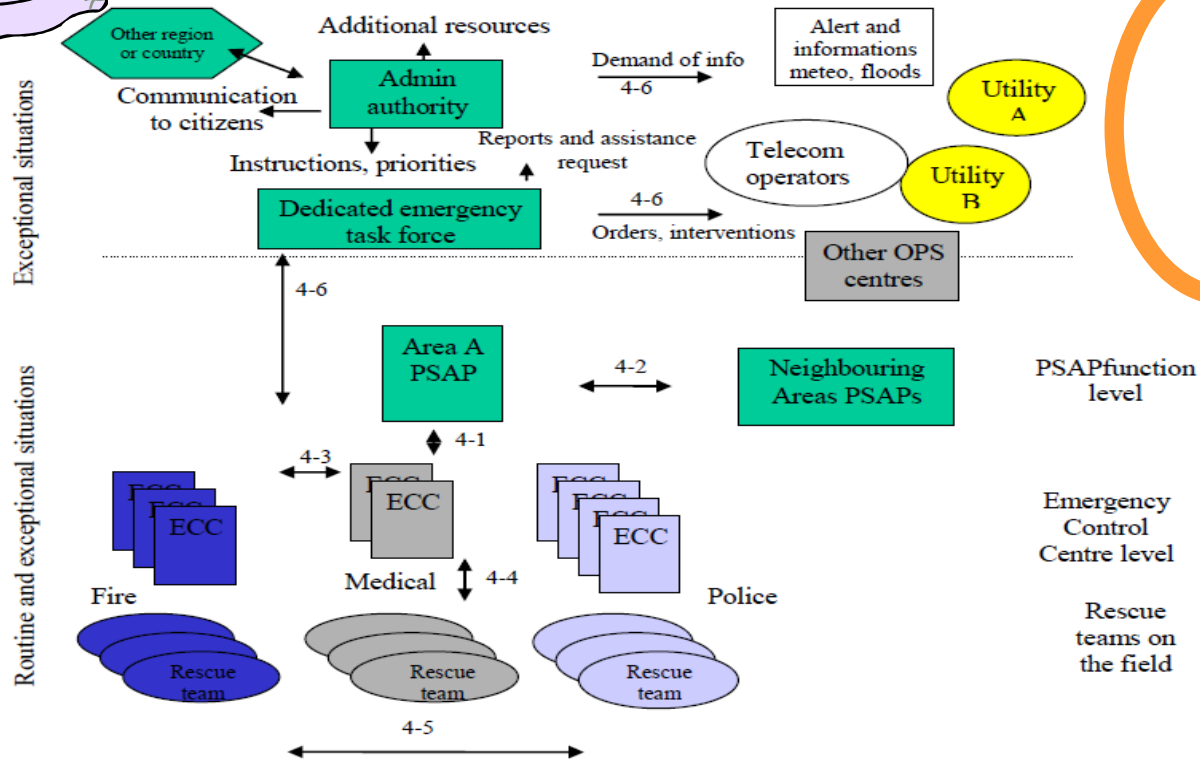


Figure 1: Reference points between functional entities

3. Generic requirements addressed by the TETRA system

- Public safety
- Government
- Military
- Utilities
- Commercial and industry
- Oil and gas
- Secure (encryption)
- Group call
- Prioritisation
- Broadcasting
- PTT (fast)
- Direct mode
- Listen in
- Access to public networks
- Short data service

4. Emerging generic requirements



- 4.1. Generic requirements from ETSI MESA
- 4.2. Generic requirements from the User cabinet
- 4.3. Generic requirements from BAPCO
- 4.4. Generic requirements from OLES SAFECOM, and COPS (US)
- 4.5. Generic requirements from ITU-T PCP-TDR
- 4.6. Generic requirements from IETF ECRIT

4. *Emerging generic requirements*



General topics

- Broadband
- Sensors
- Activators
- Machine to machine

4.1. Generic requirements from ETSI

MESA



- US and Europe see migration towards broadband!
- “Joint requirements” mean integrated solution for all agencies!!!
- NGN’s as Backbones?
- Software defined radios or cognitive radio
- Pre-emption and priorities for PSC

4.2 Generic requirements from the User cabinet



- Avoid stovepipe systems
- Trans agencies and trans service cooperation
- Common data and imagery repositories
- Harmonized inventories of capabilities
- Simplified taskforce buildup

4.3. Generic requirements from BAPCO

Improvements on TETRA systems:

- Interoperability: Roaming, access to legacy systems, PSTN
- IP packet data
- Repeaters and gateways
- Location services
- Directory service

4.4. Generic requirements from OLES

OLES: Office of Law Enforcement Standards
Strives for interoperable deployments of PSC
equipments

Has decision making power on budget
spending

Develops “Public Safety Architecture
Framework (PSAF)” with OLES and
SAFECOM

4.5. Generic requirements from ITU-T PCP-TDR

- Enhanced priorities
- Secure networks
- Restorability
- Network connectivity
- Interoperability
- Reliability
- Mobility
- Ubiquitous coverage
- Survivability
- Voice transmission
- Scalable bandwidth
- Availability

Rem.: see also Next generation networks!!!!

4.6. Generic requirements from IETF ECRIT

Internet Engineering Task Force (IETF)

Emergency Context Resolution with Internet
Technologies (ECRIT)

- Requirements for Citizen to Authority
Communications
- Requirements for Authority to Citizens
(Individuals) Communications

5. *Conclusions*

Voice communications inside authorities in the incident area are served by TETRA coverage

- Interoperability
- Improved decision making process (IM)
- Localization
- Broadband