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**The basic requirements for emergency services via the Internet**
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Abstract

We present a short list of the basic requirements for emergency services via the Internet.

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## 1. Requirements notation

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119].

## 2. MUST Requirements

M1. From any with the Internet connected device it MUST be possible at any time to contact the ECC responsible for the current location with the most appropriate method for communication for the user and the device.

M2. The possibility to make contact to the proper ECC has to be verified and indicated to the user and/or the User Agent.

M3. The communication may be established on user request or by external events.

M4. To achieve this, the device MUST be able to retrieve its current location from the access provider, from the infrastructure, via GPS, ... or as last resort, from the user itself.

M5. The capability to locate the responsible ECC must be available in the public Infrastructure without the additional need for a service provider.

M6. For a transient time the device and the UA may use the help of servers (e.g. ESRP) to provide the connectivity to ECC, especially for ECC not yet connected to the Internet.

## 3. SHOULD Requirements

S1. Transmission of the current location of the contacting device to the ECC

S2. Capability to re-contact the contacting device from the ECC in case of disruption or later query for a tbd period of time. This should also be possible from conventional ECC via temporary (virtual) E.164 numbers

S3. Identification of the contacting person or device

S4. Safeguards to protect the emergency infrastructure and ECC facilities against malicious attacks, especially to prevent DoS attacks.

S5. Provide all possible means of communication, not only speech, but also text (IM), Video, etc., (for disabled persons and better display of the situation)

S6. Capabilities to contact ECC by automatic means and for the transfer of additional information (alarm equipment, cars, buses, trucks with dangerous loads, ...)

## 4. Security Considerations

None.

## 5. References

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997.

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