

eCall status in SA1

Michele Zarri, T-Mobile
SA1 Chairman



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A GLOBAL INITIATIVE

Presentation outline

- **What is SA1 and what does it do?**
- **Current activity to support eCall**
- **Issues and questions**
- **Conclusions**

Who is SA1 and what does it do?

- SA1 is the service requirements working group of the third generation partnership project (3GPP)
- SA1 (also known as S1) reports to the technical specification group services and system aspects (TSG SA)
- SA1 defines the service requirements for the 3GPP system i.e. Using the ITU terminology, SA1 develops stage 1 technical specifications

SA1 mandate

- **SA1 responsibilities are:**
 - Definition of service and feature requirements
 - Framework (architecture) for services
 - Specification of services (stage 1)
 - Specification of service capabilities (stage 1)
 - **Identification of technical and operational issues to meet market requirements**
 - Charging and accounting requirements.
- **Note that the market requirements are received by the Market Representation Partners (MRP) as well as by the 3GPP members.**

SA1 and “external” requirements

- **SA1 (and 3GPP in general) work is contribution driven**
- **SA1 (and 3GPP in general) strives to define globally applicable solutions i.e. Specification work to cater for regional variations, although allowed, is not encouraged**
- **Development of technical specifications in SA1 (and 3GPP in general), unlike standards institutes cannot be mandated (although the partners and the members strive to fulfill every request).**

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The story so far for eCall

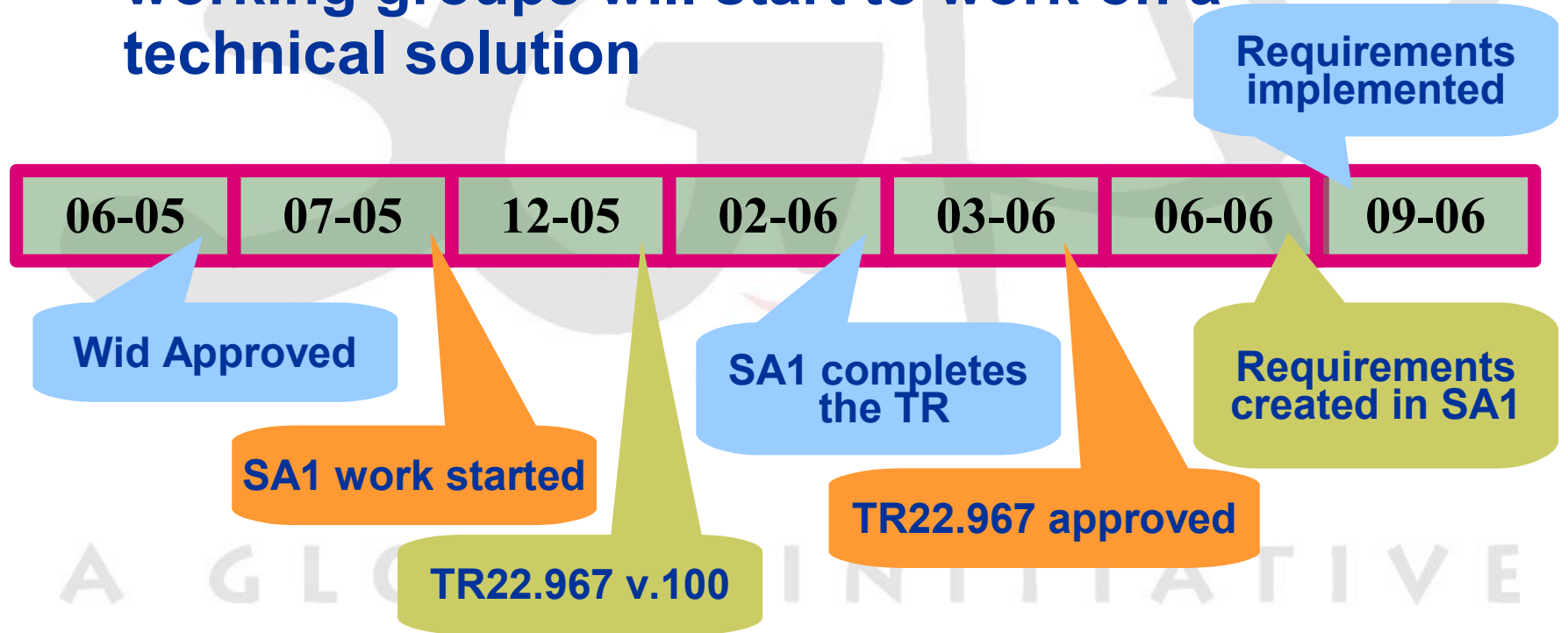
- ETSI (one of the partners of 3GPP) has requested via the MSG that SA1 develops requirements for the support of eCall
- In June 2005, a work item on eCall has been approved by TSG SA
- SA1 has started in July 2005 to develop a technical report TR 22.967

Future plans

- **TR 22.967 (Transferring of Emergency Call Data) is currently more than 50% complete and will be presented for information at TSG SA-30 in December 2005**
- **SA1 will continue to work on the TR in SA1-31 meeting and aims to complete the document**
- **The TR will be sent for approval at TSG SA-31 (March 2006)**

Future plans

- Once the TR is approved, SA1 will prepare the necessary change requests to the existing stage 1 specifications and the other 3GPP working groups will start to work on a technical solution



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The 4 seconds issue

ETSI MSG requires that the MSD be available to the PSAP operator within 4 seconds of it being sent by the eCall mobile.

- **SA1 is not clear on this requirement in particular:**
 - Why 4 seconds?
 - When does the timer starts? At call set up, once the call is answered
- **The current understanding is that 4 seconds are counted from the call set up time i.e. The time the eCall mobile needs to register on the network is not counted.**

Terminal capabilities

ETSI MSG requires that the terminal shall be dual mode GSM/GPRS and UMTS (WCDMA) in order to ensure full European coverage during the lifetime of the car

- **Since emergency calls in the PS domain are only fully supported in Rel-7, SA1 would like to understand the rationale for requiring that the terminal supports GPRS**

Timescales

ETSI MSG requires that 3GPP should aim at finishing the specification by December 2005.

- **SA1 is making good progress however, SA1 will not be able to complete the study by the deadline given**
- **At present it is expected that the report is approved (and then published) after TSG SA meeting 31 (March 2006).**
- **After the report is completed other working groups in 3GPP will need to devise a technical solution, this could take another 6 months.**

Roaming outside the EU

ETSI MSG requires that the solution shall work on all European GSM/3G networks (pan European solution, full roaming capability)

- **SA1 would like to have a clarification on whether it is required that the service is also available in networks not supporting eCall (e.g. Countries outside the EU) or not.**
- **A decision on this point is important because it may have profound implications on the choice of the most appropriate technical solution.**

Location information

- SA1 understand that the eCall data is intended to supplement a normal E112 emergency call.
- It is understood that the eCall system will deliver location information generated by in-car systems.
- Does that mean that the operator is exempt from the requirement to deliver Location Information for eCall E112 emergency calls?

Current use cases

- **The following use cases are being considered by 3GPP:**
 - Automatic eCall, the driver is able to speak
 - Automatic eCall, silent call
 - Manual eCall, driver is able to speak
 - Manual eCall, silent call
 - False eCall
- **Are there missing use cases?**

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Conclusions

- **The MSG deadline shall not be met**
- **Several open questions remain to be addressed urgently in order to complete the study:**
 - **is the operator is exempt from the requirement to deliver Location Information for eCall E112 emergency calls?**
 - **From when and up to when are the 4 seconds required for the MSD to be made available measured?**
 - **What are the precise requirements for availability of eCall capabilities while roaming?**

Conclusions

- SA1 would like to have an endorsement of the following preliminary deductions
 - eCall should be based on Circuit Switched rather than Packet Switched calls
 - eCall shall be designed to require no changes to existing 3GPP standards
 - The eCall mobile cannot be allowed to generate traffic on the network until an emergency situation is detected
 - Once an eCall is established it can only be released by the PSAP operator

– End of the presentation –