

# ***SA1 Status Report to SA#31*** ***SP-060016***

**Michele Zarri, T-Mobile**  
**SA1 Chairman**

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# ***SA1 Leadership***

- **Chairman:**  
**Michele Zarri (T-Mobile)**
- **Secretary:**  
**Michael Clayton (MCC)**
- **Vice-chairs:**  
**Paul Carpenter (RIM),**
  - Elected at SA1#28 (April 2005)**Jörg Swetina (Siemens)**
  - Elected at SA1#31 (February 2006)

**New!**™

# SA1 Sub Working Groups

- **Active**
  - Priority Services
  - Machine 2 Machine Communication
  - MITE (IMS Multimedia Telephony service)
  - Network Selection Procedures
  - Personal Network Management
  - eCall
  - VCC
  - Network composition **New!**
- **Not convened during meeting SA1-31<sup>†</sup>**
  - LoCation Services (LCS)
  - Multi-system terminals

<sup>†</sup> the SWGs in this category will be closed if not meeting for two plenary cycles

# *Meetings Held*

- **SA1 Plenary**
  - **SA1#31: 13 Feb – 17 Feb 2006**
  - **Denver, Colorado, USA**
  - **North American Friends of 3GPP**

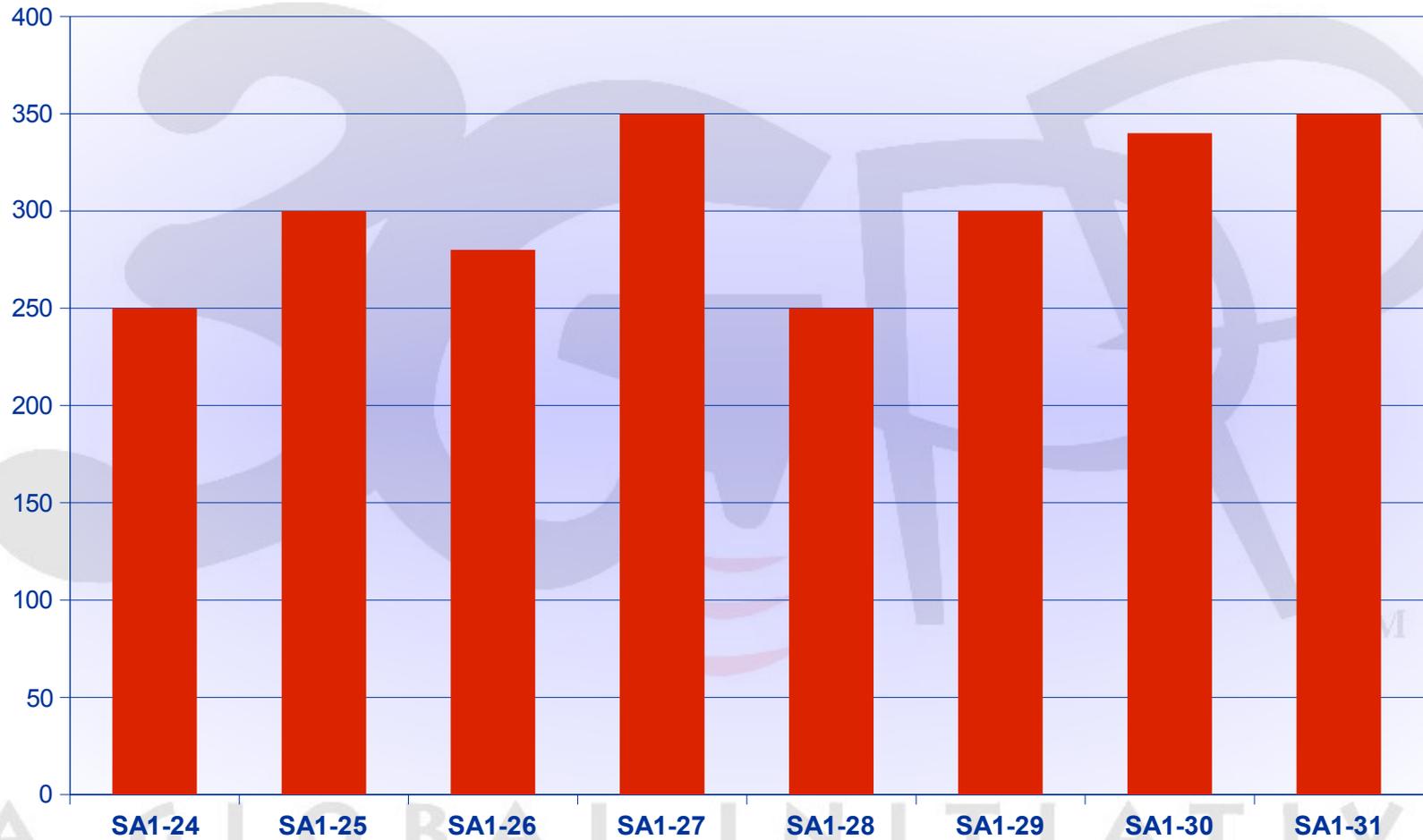
# SA1 General Progress

- **Jörg Swetina elected vice chairman of TSG SA WG 1**
- **Resolved all but two actions allocated by SA plenary**
- **Still focussing on Rel-7**
- **Excellent progress of the work on Multimedia Telephony**
- **Clarifications to VCC requirements**
- **New work item on network selection enhancements started**
- **Refined several other work items**

# *SA1 General Progress statistics*

- Received **44** Liaison statements
- Agreed **34** Change requests
- Agreed **4** new work items or revised WIDs
- Sent **17** liaison statements
- Agreed **5** TS and/or TR for information or approval
- Handled **350** documents

# SA1 Documents



# *Sub working groups summaries (I/II)*

- **eCall**  
(chaired by Steve Vardy from Motorola)
- **VCC**  
(chaired by Chuck Bailey from Cingular)
- **Machine 2 Machine**  
(chaired by Kurt Bischinger from T-Mobile)
- **Multimedia Telephony**  
(chaired by Peter Bleckert from Ericsson)

# *Sub working groups summaries (II/II)*

- **Network Selection Principles**  
(chaired by Paul Carpenter from RIM)
- **Personal Network Management**  
(chaired by Armin Toepfer from Vodafone)
- **Priority**  
(chaired by Jim Garrahan from Telcordia)

# eCall SWG

- **Statistics:**
  - Approx **14** attendees, handled **11** Documents
- **TR 22.967 completed and submitted for approval**
- **Changes implemented:**
  - Reviewed and updated section 6 Discussion of Requirements Identified
  - Drafted New Section 8 Recommendations
  - Drafted New Section 9 Considerations capturing issues identified not of direct 3GPP concern
  - Drafted New Section 10 Conclusion

# VCC SWG

- **Statistics**
  - **28** delegates from 21 companies attended.
  - Processed **2** liaison statements
- The meeting worked based on the assumption that Rel-7 requirements could still be clarified
- The meeting agreed two liaison statements to SA2:
  - response on 'Identification of an IMS session candidate for voice call continuity procedures'
  - response on 'Clarification on Domain selection for MO and MT Operations'
- They were later revised and agreed in SA1

# *M2M communications*

## *SWG*

- **Statistics**
  - **13** participants, handled **5** documents
- **The meeting continued to work on TR 22.868 producing version 0.3.0**
  - Introduction of new use cases
  - Implication of use cases described
  - Enhancements for handling of large numbers of terminals
  - Considerations on security
  - Considerations on addressing
- **The TR is still not considered 60% complete and is not presented to this meeting.**

# *IMS Multimedia telephony SWG*

- **Statistics**
  - **24** delegates, **13** input contributions
- **The SWG addressed three areas of work:**
  - **Update of the IMS Multimedia Telephony WID**
  - **TR 22.973 Multimedia Telephony Capabilities for IMS**
  - **TS 22.173 IMS Multimedia Telephony service**
- **Update of the IMS Multimedia Telephony WID**
  - **The output of this WID is now an additional TS**
  - **Added more supporting companies (9 in total)**
  - **Time scales are as agreed in TSG SA-30**

TM

# *IMS Multimedia telephony SWG*

- **TR 22.973 IMS Multimedia Telephony service**
  - Presented for approval in this plenary
  - Recommends the standardisation of a IMS multimedia telephony service
  - recommends 3GPP to endorse TISPAN service definitions for the supplementary services that are applicable to 3GPP Systems
  - The TR indicates also the possible need to add a "communication diversion: Communication Forwarding on Mobile Subscriber Not Reachable" supplementary service which is specific to 3GPP.
- **TS 22.173 IMS Multimedia Telephony service**
  - Presented for information in this plenary
  - Most of the text derived from the technical report

# *Network Selection Principles SWG*

- **Statistics**
  - **24** delegates, handled **29** contributions
- The meeting agreed a work item on network selection enhancements and a number of change requests in line with the agreements reached in the network selection workshop in Amsterdam
- The meeting also refined TR 22.811
- 9 change requests, two liaison statements and one work item description were in total agreed in SA1.

# *Network Selection Principles SWG*

## Topics covered by the SWG

- **Time to select a network**
  - It was agreed not to create change requests at this stage, but to invite the relevant groups to study this important aspect
- **Last RPLMN vs HPLMN**
  - This will allow a UE to select the HPLMN in preference to the RPLMN. The operator shall be able to control by USIM configuration whether an UE that is capable shall perform this alternative behaviour
- **HPLMN Control of VPLMN Selection**
  - After some debate a basic requirement was agreed with the intention of refining it once the technical solution selected is outlined

# *Network Selection Principles SWG*

- **Accidental Roaming**
  - A requirement was agreed to introduce a controlled roaming feature that allows for “confirmed roaming” in a certain countries as defined by the HPLMN. It is intended to avoid users in border areas accidentally ending up on a VPLMN
- **PLMN List Size**
  - The issue with the size of the PLMN list in the terminal was detected in TR 22.811 and corrected with a CR in this meeting
- **Manual network selection improvements (1)**
  - Consensus was reached to allow the display of all available EHPLMNs when the HPLMN chooses to allow this.

# *Network Selection Principles SWG*

- **Manual network selection improvements (2)**
  - A CR that allows the network operator to provide additional information on PLMNs when the user is in manual mode was agreed.
- **Mode selection**
  - A change request that allows the terminal to power on in the user preferred network selection mode of operation
- **EHPLMN Terminology**
  - A change request has been introduced to correct the EHPLMN terminology in the vocabulary document.
- **RAT preference**
  - Still no agreement on this point

# *Personal Networks Management SWG*

- **Statistics:**
  - **18** delegates handled **17** contributions
- **The SWG agreed to send TS 22.259 for approval to SA plenary.**
- **The following areas have been enhanced:**
  - Terminology
  - Phasing and functionality description
  - Addressing
  - Interaction with IMS and CS
- **SA3 replied to the LS on security sent from the previous SA1 meeting indicating that a thorough analysis will be carried out.**

# Priority SWG

- **Statistics:**
  - 9 participants, 9 documents processed.
- The meeting agreed in principle to a revised draft of the MPS Feasibility Study TR 22.953 (v 1.0.0) to be presented to SA#31 for information (document considered to be at least 60% complete).
- The meeting agreed in principle to an LS response to OMA on PoC Session Priority.

TM

# *New & updated Work Items and study items*

## **UPDATES**

- Revised WI for CAT (**SI**)
- Multimedia Telephony Service for IMS (**WI**)

## **NEW**

- Enhancements for VGCS Applications (**WI**)
- Network Selection Enhancements (**WI**)

**(WI = Work Item, SI = Study Item)**

# *Revised WID for CAT*

- **Adopted the new template for WI/SI**
- **Introduced the capability of sending customised video clips as well as ring tones**
- **Added three tasks in the objectives:**
  - Study the interaction with IMS telephony service
  - Study the charging aspects
  - Study the interaction with the generic user profile

# ***Multimedia Telephony Service for IMS***

- **The WID is based on the text agreed in principle at TSG SA 30.**
- **Highlights of the objectives include:**
  - **to define the Multimedia Telephony service for IMS and the minimum set of capabilities required to secure multi-vendor and multi-operator interoperability for Multimedia Telephony and related Supplementary Services.**
  - **to reuse and build on IMS capabilities provided in Release 5 and Release 6 and the simulation services defined in TISPAN to avoid duplication of work.**
- **The work is targeting Release 7**

# ***Enhancements for VGCS Applications***

- The objective of the work item is to provide additional optional VGCS functions that can be used to meet, among others the following purposes:
  - Transfer of railways application-specific control information, requiring short round trip delay
  - A means to request dispatchers to rejoin a group call
  - Obtain listener identity information
- The intent should be to have a future-proof solution that can be used to meet potential future application needs.

**New!**

# *Network Selection Enhancements*

- The WID will cover the areas identified in the TR 22.811 as well as in the network selection workshop. These areas include:
  - enhancements to procedure to select the last registered PLMN
  - HPLMN control of selected VPLMN
  - mitigation of problem of accidental roaming in border areas
  - enhancements to EHPLMN
  - enhancements to REFRESH command
  - study on introduction of new RATs in the PLMN selector lists.

**New!**

# AIPN Progress

- SA2 asked SA1 to clarify the support of legacy services as well as the support for LCS
  - SA1 has produced a change request that creates a table in a normative annex of TS 22.258 where CS services that do not need to be replicated in AIPN are listed. The CR also gives examples of services that should instead still be supported. Note that the support for CBS is left for further study
- SA2 also asked SA1 to perform an evaluation of the relative importance handover for voice services between EUTRA and GSM/UMTS
  - SA1 has agreed that both directions of handover are to be supported.

# *Joint meeting on Videotelephony*

- SA1 called for a meeting to discuss how to progress the work on videotelephony now that the study item TR 22.903 has been completed.
- Experts from CT1, CT3, CT4 joined SA1 and agreed the following:
  - All the proposed enhancements can be realised regardless of the technical choice
  - Being some enhancements more complex than others, it was recommended that the WID prioritises them
- It is now expected that SA1 will produce a WID to start the specification work.

(back to action X )

# *Other Issues/highlights*

- **Generalising specifications for the benefit of TISPAN**
  - TISPAN proposed changes to the definition of UE and ISIM in 21.905, providing the standards required parameters to access IMS by other methods than UICC based ISIM. SA1 did not comply and suggested discussion with SA3.
- **Removal of roaming requirement from MBMS Release 6**
  - It was recognised that the roaming requirements in TS 22.246 have not been fulfilled in Rel-6, it was therefore proposed to remove them from the stage1 although the requirements remain valid for Rel-7

# *Other Issues/highlights*

- **Network Composition**
  - Work is progressing well and a SWG will be formed from the next meeting to handle the contributions to the study item
- **EUTRA – GSM/UMTS CS handover**
  - In reply to the question on the importance of handover in different directions SA1 agreed that handover in both directions should be available in the same timeframe.
- **eCall next steps**
  - SA1 has agreed to create an appropriate WID for further work, if required, once the results of the eCall technology study by GSME are known. It was also agreed not to change the name for the time being.

# *Actions on WG1 allocated during SA#30 (I/XI)*

- **A29-10: duplication of parameters for QoS profiling**
  - The change request in SP-050635 on QoS profile was approved, however TSG SA asked to investigate whether it is necessary to have the parameters both in the USIM and in the ME as it is likely to cause problems.
- **Status:**
  - SA1 has discussed the issue and reviewed two contributions from China Mobile. It was agreed that the functionality to prioritise parameters on the USIM already exists. **CLOSED**

# *Actions on WG1 allocated during SA#30 (II/XI)*

- **A30-01 Latency requirements for VoIMS**
  - TSG SA asked SA1 to define a value for the latency requirements for VoIMS. TSG SA decided that it is a task for SA1 to evaluate the current delay requirements for voice services and update them if necessary for VoIMS.
- **Status:**
  - SA1 has sent a liaison statement to RAN2 and SA4 confirming that the value of 150ms already contained in the specifications is still valid. SA1 also noted that for any access change the selected speech codec shall be capable of operating with minimum discernible loss of speech on handover between the GERAN and UTRAN. **CLOSED**

# *Actions on WG1 allocated during SA#30 (III/XI)*

- **A30-02** Revision of change request for defining a global SIP URI
  - SA1 has been tasked to review the requirements for IMS emergency calls (especially the terminology used) and provide necessary updates to clarify some text still not sufficiently clear.
- **Status:**
  - SA1 has agreed a change request on the subject where the terminology has been cleaned up and improved the text of the section. **CLOSED**

# *Actions on WG1 allocated during SA#30 (IV/XI)*

- **A30-03 Prepaid charging for SCUDIF**
  - The change request on SCUDIF charging presented by SA1 has been approved, however it was noted that it does not answer one of the questions asked by CT3 on the support of prepaid charging. This was clarified only in the liaison statement to CT3. TSG SA tasked therefore SA1 to revise TS 22.115 to make sure that prepaid is supported there for the SCUDIF charging
- **Status:**
  - A change request has been agreed in SA1 and reviewed by SA5 SWG B. **CLOSED**

# *Actions on WG1 allocated during SA#30 (V/XI)*

- **A30-04 Definition of CDR**
  - The SA5 secretary noted that SA1 is still using an obsolete definition for the acronym CDR, therefore TSG SA asked SA1 to update this in TS 22.115 and wherever else applicable.
- **Status:**
  - See action A30-03 (previous slide). **CLOSED**

# *Actions on WG1 allocated during SA#30 (VI/XI)*

- **A30-05 Scope of the multisystem terminals TR 22.973**
  - TSG SA approved the technical report on multisystem terminal but at the same time asked SA1 to improve the scope section.
- **Status:**
  - A change request to the scope clause of 22.973 has been agreed in SA1. **CLOSED**

# *Actions on WG1 allocated during SA#30 (VII/XI)*

- **A30-06 Identification of communication services in IMS**
  - TR 23.816 on Identification of Communication Services drafted in SA2 was noted and TSG SA asked SA1 to review this document in order to determine if any associated service requirements exist. TSG SA also recommended SA1 to review the approved change request in document SP-050842 on the same subject.
- **Status:**
  - SA1 has analysed a proposed CR but agreed to investigate further how to best introduce this new concept in 22.228. It was agreed to try to complete this task by the next meeting. **OPEN**

# *Actions on WG1 allocated during SA#30 (VIII/XI)*

- **A30-07 Scope of the Network selection principles review TR 22.811**
  - TSG SA approved the technical report on network selection principles review TR 22.811 asking SA1 to review the scope of the TR and modify it so that it reflects more closely the contents of the document. A proposed agenda and scope for the workshop with other affected groups on Network Selection Principles was reviewed and approved by TSG SA in SP-050837.
- **Status:**
  - No change request agreed since the specification work for network selection has been prioritised.

**OPEN**

# *Actions on WG1 allocated during SA#30 (IX/XI)*

- **A30-08 Multimedia Telephony communication enabler for IMS (MITE)**
  - A company contribution proposed to update the WID for this work including converting the TR to a TS with approval at SA#32 (June 06). However, due to lack of time for companies to review this proposal the updated WID was not approved. As a result of this discussion TSG SA requested SA1 to investigate the way forward for this work, including production of a TS, taking into account that MITE is aimed for inclusion in Rel-7.
- **Status:**
  - The TS 22.173 is presented for information at this meeting. **CLOSED**

# *Actions on WG1 allocated during SA#30 (X/XI)*

- **A30-09 Videotelephony Teleservice**
  - Although no direct action was placed on SA1, in order to progress this work quickly enough for inclusion in Rel-7 it was suggested that SA1 consult with the affected Technical Groups (e.g. CT1) regarding the way forward for work based on the conclusions of the Videotelephony Teleservice Study (TR 22.903). As the next SA1 and CT meetings are co-located a joint session on this topic was suggested a possible method for achieving this.
- **Status:**
  - Workshop held, see here . **CLOSED**

# *Actions on WG1 allocated during SA#30 (XI/XI)*

- **A30-10SAE Work Plan**
  - Three actions were allocated to SA1 on the SAE workplan.
- **Status:**
  - Change requests and liaison statements produced to cover for this action. See here  . **CLOSED**

# SA1 Plenary meetings calendar

SA1-32	24-Apr	▶	28-Apr	2006	Shanghai, P. R. of China
SA1-33 <sup>†</sup>	26-Jun	▶	30-Jun	2006	Lisbon, Portugal
SA1-34	23-Oct	▶	27-Oct	2006	Paris, France
SA1-35	Jan	▶	Feb	2007	Tbd

<sup>†</sup> Co-located with SA2

***Documents for information and approval***



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# Documents from SA1 to SA (I/III)

●SP-060016	SA1 status report to TSG SA.....	07.01
●SP-060017	CRs to 22.228 on Removal of requirement to redirect based on individual media (Rel-5, Rel-6).....	08.07
●SP-060018	CR to 22.246 on Clarification on Domain selection for MO and MT Operations.....	09.17
●SP-060019	CR to TS 22.146 to align stage 1 with MBMS stage 3 (rel-6, Rel-7).....	09.17
●SP-060020	CR to 22.115 - Making charging principles also applicable to prepay services.....	09.33
●SP-060021	CRs to 22.101 on Requirements on charging differentiation related to services (Rel-7).....	09.33
●SP-060022	CR to 22.101 to include AIPN within the 3GPP service principles specification (Rel-7).....	10.02
●SP-060023	CR to 22.129 on Introduction of reference to the AIPN Stage 1 in TS 22.129 (Rel-7).....	10.02
●SP-060024	CRs to 22.258 on Access system discovery, handover requirements and provision of legacy services (Rel-7).....	10.02

**Colour coding**

Information

Technical specification/report

Change request

Work Item Description

# Documents from SA1 to SA (I/III)

●SP-060025	TR 22 967 V.2.0.0 “Transferring of emergency call data (“eCall”)” (Rel-7).....	10.03
●SP-060026	CRs to 42.068 on VGCS (Rel-7).....	10.04
●SP-060027	CR to 42.069 on Increasing maximum number of dispatchers to 20 as an optional requirement (Rel-7).....	10.04
●SP-060028	CR to 42.069 on Modification to setup to remove the need for full conditions (Rel-7).....	10.36
●SP-060029	CR to 22.067 on EPRT Correction to priority requirement on setting up group call (Rel-7).....	10.36
●SP-060030	CR to 22.011 Clarification on MO and MT call handling for Voice (Rel-7).....	10.36
●SP-060031	New WID on Network selection enhancements.....	10.38
●SP-060032	CR to 22.811 on Clarification of using EHPLMN for Network Selection Principles (Rel-7).....	10.37
●SP-060033	CRs to 22.011 relating to Network selection principles (Rel-7) .....	10.37

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Information

Technical specification/report

Change request

Work Item Description

# Documents from SA1 to SA (I/III)

●SP-060034	CR to TS 22.101 on Clarification of the use of IMS emergency identifier” (Rel-7).....	10.37
●SP-060035	CR to 22.127 on application driven QoS (Rel-7).....	10.37
●SP-060036	New WI on Enhancements for VGCS Applications.....	10.38
●SP-060037	CR to 42.068 on Enhancements for VGCS Applications (Rel-7).....	10.38
●SP-060038	New WI for Multimedia Telephony Service for IMS.....	10.38
●SP-060039	TR 22.953 DRAFT - Multimedia Priority Service Feasibility Study (MPS) Feasibility Study V1.0.0.....	11.02
●SP-060040	Revised WI for Study of Customised Alerting Tone (CAT) Requirements.....	11.03
●SP-060041	TR 22.973 v2.0.0 “IMS Multimedia Telephony service and associated supplementary services for IMS”.....	11.05
●SP-060042	TS 22.173 v1.0.0 “IMS Multimedia Telephony Service”.....	11.05
●SP-060043	CR to 22.936 on Revision of the Scope.....	11.08
●SP-060044	TR 22.259 v2.0.0 “Service Requirements for Personal Network Management”.....	11.16

**Colour coding**

Information

Technical specification/report

Change request

Work Item Description