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|---|---|
| **Source:** | **MCC** |
| **Title:** | **Summary of outstanding issues in TSG-SA** |
| **Document for:** | **Information** |
| **Agenda Item:** | **6.6** |

This contribution summarises the work item stati based on submission forms and other information.  The source document is indicated at the head of each page.

From SP-99538

| Work Area / Item: | | 3G TS 23.060 | | | | | |
|---|---|---|---|---|---|---|---|
| Affects: | UE/MS: X | CN: X | | UTRAN: X | Compatibility Issues: | Yes: X | No: |
| Expected Completion Date: | | March 2000 (TSG SA#7) | | | | | |
| Services impacted: | | UMTS packet services, GPRS | | | | | |
| Specifications affected: | | - | | | | | |
| Tasks within work which are not complete: | | Shall anonymous access be supported for UMTS or GPRS 99? An LS has been sent to S1 to ask for guidance. Subclause 6.8.4: Shall the MS be able to send its IMSI encrypted? This issue is still being discussed in S3. Subclause 9.3: Shall the max N-PDU size be different from 1500 octets? Subclause 12.1.1: Is TCP support for UMTS on Gn and IuPS needed? S2-99D41 suggests that TCP is supported in the user plane for both Gn and IuPS. Subclause 15.1.3: Fair charging for UMTS to be determined. | | | | | |
| Consequences if not included in Release 1999: | | - | | | | | |
| Accepted by TSG# for late inclusion in Release 1999: | | | | | | | |

From SP-99540

23.107

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**Contentious Issues:**

There is discussion about which PDP context to keep when handing over from a 3G to a 2G network. While this discussion is an issue for 23.060, it may still affect 23.107 since it may be necessary to find mechanisms for the choice of the best PDP context which relate to the Quality of Service and this subject is still being discussed.

From SP-99541

| Work Area / Item: | | UMTS Access Stratum; Services and Functions (3G TS 23.110 version 3.2.0) | | | | | |
|---|---|---|---|---|---|---|---|
| Affects: | UE/MS: X | CN: X | | UTRAN: X | Compatibility Issues: | Yes: | No: |
| Expected Completion Date: | | Spring 2000, related to cell broadcast issues. | | | | | |
| Services impacted: | | Cell broadcast. | | | | | |
| Specifications affected: | | RAN2: 23.321(?), 23.322 (?), 23.301, 23.303, 23.304, 23.324. | | | | | |
| Tasks within work which are not complete: | | | New model to solve Contentious Issues (see below). | | | | |
| Consequences if not included in Release 1999: | | | The Cell Broadcast feature may be delayed. | | | | |
| Accepted by TSG# (SMG#28) | | For late inclusion in Release 1999: SA#7 | | | | | |

**Contentious Issues:**

- Broadcast/Multicast services can not be described using the services and functions defined in the 23.110. The nature of Broadcast/Multicast services ,like Cell Broadcast Service (CBS), are very different from other already described services. The following list highlights these differences:
    - CBS uses two segments with different QoS requirements to deliver CB messages to the UE
        1. From Cell Broadcast Center (CBC) to RNC, e.g. a segment with 1 second turnaround time, with interactive class, and reliable transport.
        2. From RNC to UE, e.g. a segment with maximum delay of 10 seconds and a background class.
    - The service primitives used between the two legs may also be different; i.e., the related SAPs to those primitives offered by the Access Stratum may be different in the two segments
    - CBS traffic is asymmetric in nature. The communication flow is only in one direction from the CBC to the UE. There is no uplink channel needed and the UE can not initiate a communication or request specific information.

Changes to be performed:

- Introduce a new SAP
- Mapping Example

From SP-99542

23.121

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## Outstanding Issues:

- Currently BSSAP is used for inter-3G_MSC SRNS Relocation.  There are proposals to replace this with RANAP.  Guidance is being sought from CN as to the issues with this proposal.

From SP-99543

| Work Area / Item: | | TS 23.127: Virtual Home Environment/Open Service Architecture | | | | | |
|---|---|---|---|---|---|---|---|
| Affects: | UE/MS: | CN: X | | UTRAN: | Compatibility Issues: | Yes: | No: X |
| Expected Completion Date: | | March 2000 | | | | | |
| Services impacted: | | ??? | | | | | |
| Specifications affected: | | TS 22.121, TS … (stage 3) | | | | | |
| Tasks within work which are not complete: | | - Registration of Service Capability Server.<br><br>- Support for GPRS and SMS online charging.<br><br>- Description of 'Load Balancing' service capability features<br><br>- Support for USSD/SMS user interaction | | | | | |
| Consequences if not included in Release 1999: | | Deployment of VHE not possible. | | | | | |
| Accepted by TSG# for late inclusion in Release 1999: | | yes | | | | | |

**Contentious Issues:**

- User profile handling, including secure access to user data.

- Description of 'Data download' service capability features (pending decision in TSG SA WG1)

- Description of 'Message Transfer' service capability features (pending decision in TSG SA WG1)

- CAMEL ph3 (TS 22.078, TS 23.078, TS 29.078) support (support is agreed, the way how is open for discussion)

From SP-99544

| Work Area / Item: | | Location services in UMTS/ Specification TS 23.171, Functional stage 2 description of location services in UMTS | | | |
|---|---|---|---|---|---|
| Affects: | UE/MS: X | CN: X | UTRAN: X | Compatibility Issues: | Yes: X        No: |
| Expected Completion Date: | | 23.171 by March 2000, complete stage 3 specifications by the end of year 2000. | | | |
| Services impacted: | | Location services in UMTS | | | |
| Specifications affected: | | 23.171, probably also TS 25.305: Stage 2 Functional Specification of Location Services in UTRAN, corresponding LCS Stage 3 specifications | | | |
| Tasks within work which are not complete: | | Issues for further study or open issues:<br>- LCS support for packet switched services.<br>- Further definitions of information content of location service request and response and corresponding Iu messages<br>- Addressing of target MS (possible IP addressing)<br>- LCS Privacy Verification Invoke and Response for PS services<br>- Mobile originated LCS request for PS services<br>- information transfer between SRNC and target UE<br>- information transfer between SRNC and LMU<br>- Handling of new accuracy classes being defined in SA1<br>- Support of UTRAN positioning methods in core network, e.g. charging and ciphering of LCS assistance information<br>- LCS information in HLR, VLR, RNC and GMLC<br>- Operational aspects of LCS<br><br>Adapting the final GSM 03.71 LCS stage 2 specification for 23.171 and 25.305 is still to be done. | | | |
| Consequences if not included in Release 1999: | | Discontinuity between LCS in GSM release (98) 99 and UMTS release 99. If LCS is not defined in UTRA, it might lead to backward compatibility problems with previous versions of UE. US regulatory requirement for provision of Location information with Emergency Calls will not be met. | | | |
| Accepted by TSG#            for late inclusion in Release 1999: | | | | | |

Contentious Issues:

Coordination between the two LCS Stage 2 specifications: 23.171 for system aspects and 25.305 for UTRAN.

Pending adaptation of the changing GSM LCS 03.71 for 23.171 (and to 25.305).

The handling and coordination of GSM LCS specifications and UMTS LCS specifications in rel 99 and rel 2000.

From SP-99575

| Specification: | **TS 26.104** | Title: | **AMR Speech Codec Floating Point ANSI-C Code** | | | |
|---|---|---|---|---|---|---|
| Last version available: | **0.0.1** | | | | | |
| Work Area / Item: | **Low Bit Rate Codec for Multimedia Telephony SErvice** | | | | | |
| Affects: | **UE/MS:X** | **CN:X** | **UTRAN:** | Compatibility Issues: | **Yes:** | **No: X** |
| Expected Completion Date: | **March 2000** | | | | | |
| Services impacted: | **None** | | | | | |
| Tasks within work which are not complete: | **Code has been distributed to contributing organizations for Checking, Verification and Testing.** | | | | | |
| Consequences if not included in Release 1999: | **None, but highly desirable** | | | | | |

**Contentious Issues:**

None.

The extension of the corresponding Work Item to include the production of a Floating-Point implementation of the AMR C-Code is a recent decision. The code must be verified and tested for equivalent quality and full compatibility with the Fixed-Point code provided in the 26.073.

From SP-99577

| Work Area / Item: | | TS 32.101 - 3G Telecom Management principles and high level requirements | | | | | |
|---|---|---|---|---|---|---|---|
| Affects: | UE/MS: | CN: | | UTRAN: | Compatibility Issues: | Yes: | No: |
| Expected Completion Date: | | March 2000 for the outstanding issues mentioned below | | | | | |
| Services impacted: | | | | | | | |
| Specifications affected: | | | | | | | |
| Tasks within work which are not complete: | | 1. Resolve Inconsistency between 32.101 and 32.102 regarding the use of X.25 as a Network Layer Protocol<br><br>2. Add a Security Management Section | | | | | |
| Consequences if not included in Release 1999: | | | | | | | |
| Accepted by TSG:    SA#6    for late inclusion in Release 1999: | | | | | | | |

From SP-99578

| Work Area / Item: | | TS 32.102 - 3G Telecom Management architecture | | | | | |
|---|---|---|---|---|---|---|---|
| **Affects:** | **UE/MS:** | **CN:** | | **UTRAN:** | **Compatibility Issues:** | **Yes:** | **No:** |
| **Expected Completion Date:** | | March 2000 for the outstanding issues mentioned below | | | | | |
| **Services impacted:** | | | | | | | |
| **Specifications affected:** | | | | | | | |
| **Tasks within work which are not complete:** | | 3. Review IRP framework issues;<br><br>4. Resolve issue of consistency with TS 32.102 on X.25 as a network layer | | | | | |
| **Consequences if not included in Release 1999:** | | | | | | | |
| **Accepted by TSG: SA #6 for late inclusion in Release 1999:** | | | | | | | |

From SP-99579

| Work Area / Item: | | TS 32.104 - 3G Performance Management | | | | | |
|---|---|---|---|---|---|---|---|
| **Affects:** | **UE/MS:** | **CN:** | **UTRAN:** | | **Compatibility Issues:** | **Yes:** | **No:** |
| **Expected Completion Date:** | | March 2000 for the outstanding issues mentioned below | | | | | |
| **Services impacted:** | | | | | | | |
| **Specifications affected:** | | | | | | | |
| **Tasks within work which are not complete:** | | 5. Review some IRP framework issues; <br><br> 6. Granularity period starting and end point synchronization; <br><br> 7. Tune some 3G performance measurement parameters; <br><br> 8. Finalization of Annexes A and about performance measurement report files. | | | | | |
| **Consequences if not included in Release 1999:** | | | | | | | |
| **Accepted by TSG: SA #6  for late inclusion in Release 1999:** | | | | | | | |

From SP-99596

| Work Area / Item: | | 3G charging | | | | | |
|---|---|---|---|---|---|---|---|
| Affects: | UE/MS: | CN: | | UTRAN: | Compatibility Issues: | Yes: | No: |
| Expected Completion Date: | | June 2000 | | | | | |
| Services impacted: | | | | | | | |
| Specifications affected: | | 3G TS 32.005 - GSM charging for the circuit switched domain<br><br>3G TS 32.015 - GSM charging for the packet switched domain<br><br>3G TS 32.105 - 3G charging; Call event data | | | | | |
| Tasks within work which are not complete: | | 9. addition of CDRs for new or modified R99 services<br><br>10. incorporate references to 3G TS 32.005 and 32.015 | | | | | |
| Consequences if not included in Release 1999: | | Call Detail Records that are not compatible between operators | | | | | |
| Accepted by TSG: SA #6 for late inclusion in Release 1999: | | | | | | | |

From SP-99597

| Work Area / Item: | | 32.106 "3G Configuration Management" | | | | | |
|---|---|---|---|---|---|---|---|
| **Affects:** | **UE/MS:** | **CN:** | | **UTRAN:** | **Compatibility Issues:** | **Yes:** | **No:** |
| **Expected Completion Date:** | | June 2000 for the R99 issues mentioned below | | | | | |
| **Services impacted:** | | | | | | | |
| **Specifications affected:** | | | | | | | |
| **Tasks within work which are not complete:** | | - A number of Annexes to 32.106 are planned:<br><br>  - Notification IRP.<br><br>  - CORBA Solution Set for Notification IRP.<br><br>  - CMIP Solution Set for Notification IRP.<br><br>  - "CM IRP" Information Service (name TBD) and Network Resource Model with a scope that is limited to support FM and PM requirements. In general network objects will have names only identified; support objects will be modeled fully as required by the FM and PM requirements.<br><br>  - CORBA Solution Set to support the above "CM IRP" Information Service and Network Resource Model.<br><br>  - CMIP Solution Set to support the above "CM IRP" Information Service and Network Resource Model.<br><br>- A name convention definition.<br><br>- The CM IRP Information Service and Network Resource Model will be defined. | | | | | |
| **Consequences if not included in Release 1999:** | | | | | | | |
| **Accepted by TSG: SA #6 for late inclusion in Release 1999:** | | | | | | | |

From SP-99598

| Work Area / Item: | | 32.111 "3G Fault Management" | | | | | |
|---|---|---|---|---|---|---|---|
| **Affects:** | **UE/MS:** | **CN:** | **UTRAN:** | **Compatibility Issues:** | **Yes:** | | **No:** |
| **Expected Completion Date:** | | June 2000 for the R99 issues mentioned below | | | | | |
| **Services impacted:** | | | | | | | |
| **Specifications affected:** | | | | | | | |
| **Tasks within work which are not complete:** | | 11. Complete the discussion and agreement of all existing contributions with a target to provide the body of TS 32.111 (without appendices)<br><br>12. The body of the document will contain the FM concepts and requirements that apply to all the TM interfaces, and the specific requirements that apply to the Itf-N interface.<br><br>13. IRP Alarm Information Service<br><br>14. CORBA Alarm Solution Set<br><br>15. CMIP Alarm Solution Set<br><br>16. Review some IRP framework issues;<br><br>17. Clarification of management capability requirements over N-interface;<br><br>18. IRP alarm information service;<br><br>19. Solution sets for notification IRP. | | | | | |
| **Consequences if not included in Release 1999:** | | | | | | | |
| **Accepted by TSG:    SA #6    for late inclusion in Release 1999:** | | | | | | | |

From SP-99568

| Specification: | **TR 26.915** | Title: | **Transmission planning aspects of the services in 3G PLMN System** | | | |
|---|---|---|---|---|---|---|
| Last version available: | | **-** | | | | |
| Work Area / Item: | | **QoS for Speech & Multimedia Codecs** | | | | |
| Affects: | **UE/MS:X** | **CN:X** | **UTRAN:X** | Compatibility Issues: | **Yes:** | **No: X** |
| Expected Completion Date: | | **March 2000** | | | | |
| Services impacted: | | **None** | | | | |
| Tasks within work which are not complete: | | | **Report must be prepared on the basis of existing documents** | | | |
| Consequences if not included in Release 1999: | | | **None, but highly desirable** | | | |

From SP-99569

| Specification: | TS 28.062 | Title: | **Tandem Free Operation (TFO)** | | | |
|---|---|---|---|---|---|---|
| Last version available: | **-** | | | | | |
| Work Area / Item: | **Tandem Free Operation in 3G and between 2G and 3G systems** | | | | | |
| Affects: | **UE/MS:** | **CN:X** | **UTRAN:?** | Compatibility Issues: | **Yes:** | **No: X** |
| Expected Completion Date: | **June 2000** | | | | | |
| Services impacted: | **None** | | | | | |
| Tasks within work which are not complete: | **Specification must be prepared on the basis of GSM 08.62, taking into account the 3G aspects.** | | | | | |
| Consequences if not included in Release 1999: | **No TFO in Release 99** | | | | | |

**Contentious Issues:**

None.

The completion of the specifications for Tandem Free Operation for R98 and R99 is significantly lacking resources. Although a first CR is presented at TSG-SA#6 for approval, this activity is not yet considered complete. The simultaneous definition of the Iu interface (UP) and Transcoder Free Operation has not allowed to complete this work on time for Release 99. It is critical that TFO is specified to take into account the different possible network architectures. The AMR CR to 08.62 was prepared with that objective. Additional work is required to complete this activity for 3G.

From SP-99620

| Work Area / Item: | | Security Architecture | | | | |
|---|---|---|---|---|---|---|
| **Affects:** | **UE/MS:** yes | **CN:** yes | **UTRAN:** yes | **Compatibility Issues:** | **Yes:** | **No:** X |
| **Expected Completion Date:** | | March 2000 | | | | |
| **Services impacted:** | | | | | | |
| **Specifications affected:** | | 33.102 | | | | |
| **Tasks within work which are not complete:** | | A conclusion is required as to whether "No encryption" is an option in the list of UEAs. | | | | |
| **Consequences if not included in Release 1999:** | | . | | | | |
| **Accepted by TSG#** 6 **for late inclusion in Release 1999:** | | At TSG-SA#7 | | | | |