

3GPP TSG SA #18  
New Orleans, USA, 9-12 December 2002

Tdoc SP-020845



# ***Review of the Work Plan at Plenaries #18***

**This presentation includes updates from  
TSG T, CN, RAN and SA#18**

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# Content

- Review of testing activities
- Review of pre-Rel-6 work still on-going (other than corrections)
- Review of on-going features (Rel-6)
- Conclusion

In **Black**: Name of the task

In **Red**: important statement

In **Green**: question to plenary

In **Turquoise**: late modifications at end of SA#18

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# *Testing activities*



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## ***UE testing R99 (1/2)***

- **90% of prose test cases updated to Sep 02 core specifications.**
  - Package 1 100% (98 TC / 98 TC)
  - Package 2 95% (84 TC / 88 TC)
  - Package 3 90% (63 TC / 70 TC)
  - Package 4 95% (69 TC / 73 TC)
  - Low 85% (310 TC / 363 TC)

» Note : Radio Bearer test cases are not included in this calculation.
- **First TTCN test cases presented for approval at this meeting.**

## ***UE testing R99 (2/2)***

- **Ongoing activities (% complete, foreseen completion date):**
  - ***Extensions to R99 Test cases (SIG, covers the completion of FDD prose and TTCN) (60%, Dec 02 for prose; 30%, Mar 04 for TTCN)***
  - ***Maintenance of the R99 test specification and test cases (SIG) (90% ongoing for prose; 30% ongoing for TTCN)***
  - ***Creation of the Release 99 TCs for TDD, prose and TTCN (SIG) (50%, July 03 for prose; 0% Dec 03 for TTCN)***

# UE Testing Rel-4 (1/2)

- **Not started yet:**
  - **Testing of RAB support for RoHC** (*March 03 for prose; June 03 for TTCN*)
  - **Feasibility study on conformance testing of UE MExE capability.** *No support so has been deleted at T#18*

## ***UE Testing Rel-4 (2/2)***

- **Ongoing activities (% complete, foreseen completion date):**
  - *LCR\_TDD, Testing Layer 2 and 3 protocol aspects (SIG) (50%, 7 month delayed July 03 for prose; 0% Dec 03 for TTCN)*
  - *Testing of IETF aspects of 3GPP RoHC (10% Sept 03 for prose; 0% Dec 03 for TTCN)*

# ***UE Testing Release Independent***

- **Testing UMTS 1800/1900:**
  - RF & SIG part **already completed**
  - TTCN expected for Mar 03
- **Optimisation of Test Time, RF Aspects (FDD and TDD)**
  - 70% completed, March 03



# UE Testing Rel-5 (1/2)

- **Not started yet :**
  - *Testing of support for IMS (March 03 for prose, Sep 03 for TTCN)*

# ***UE Testing Rel-5 (2/2)***

**WI under study and seeking supporting companies  
(no change since TSG T#14)**

## **–Improvements of Radio Interface**

- Testing improvement of inter-frequency and inter-system measurement
- Testing Hybrid ARQ II/III
- Testing Terminal Power saving features
- Testing DSCH power control improvement in soft handover

## **–RAN Improvements**

- Testing Radio access bearer support enhancements – except ROHC (ROHC belongs to Rel-4)

## **–Emergency call enhancements**

- Stage 3 for emergency calls and packet emergency calls in general (Core requirement and testing moved to Rel6)

***Review of pre-Rel-6 work  
still on-going  
(other than corrections)***

# *High Speed Downlink Packet Access*

- **FDD:**
  - Complete: Node B and UE Fixed Reference Channel
  - New QPSK class added
  - In progress: UE Variable Reference Channel. Simulations finished, work to be completed over the reflector and (possibly) an Ad Hoc in January
- **TDD:**
  - 3.84 Mcps TDD complete
  - 1.28 Mcps TDD: FRC complete, VRC Simulations to be presented and work finished for RAN#20
- Expected completion by RAN#19, the Work Item is kept in Release 5

## ***MMS Rel-4***

- Storage of MMS info on the (U)SIM – clarified at TSG-SA#18 and CR to be provided at TSG-T#19

## ***Messaging Enhancements: MMS Rel-5***

- **MMS (Multimedia Messaging Service) enhancements**
  - 3GPP part completed at TSG-T#16 but**
    - **Still Open item:**
      - MM1 (interface MMS User Agent and MMS Server/Relay) stage 3, under development in OMA
      - Storage of MMS info on the (U)SIM – clarified at TSG-SA#18 and CR approved

# *Adaptive Multi Rate Wide Band*

**Completed** Work Item AMR-WB for Release 5:

TR 26.976 version 2.0.0 "Performance characterization of the Adaptive Multi-Rate Wide-Band (AMR-WB) speech codec" (Release 5) presented for **approval. AMR-WB now completed.**

# *Extended Transparent Packet Switched Streaming Services*

**STILL On-going :**

**TR 26.937 version 1.2.0 "RTP Usage Model" (Release 5)  
presented for information (not ready, yet)**

# ***GERAN Rel-5 (1/2)***

## **Completed Work Items for Release 5 (at SA#17):**

- GERAN/UTRAN interface evolution
- GERAN Inter BSC NACC improvements over the Gb Interface
- Alignment of 3G functional split and Iu
- Flow control supporting an MS with multiple data flows with different QoS over the Gb interface
- Enhanced Power Control
- 8PSK AMR HR
- GERAN enhancements for streaming services
- Intra Domain Connection of RAN Nodes to Multiple CN Nodes:  
Overall System Architecture (accept changes for Gb over IP)



# GERAN Rel-5 (2/2)

## GERAN Work Items for Release 5 (status update) :

- GERAN Improvement 3: Evolution of the transport for A interface: **TERMINATED (NOT STANDARDISED)**
- GERAN support for IP multimedia: Header adaptation was completed, but other WI aspects (control signalling for conversational Multi Media Services, MS & BTS tests) were **TERMINATED (NOT STANDARDISED)**
- Multiple TBF A/Gb mode: **50% ready**



# *Review of on-going features*

**Planned to belong to Rel-6**

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# List of Rel-6 Features (1/3)

<b>UID</b>	<b>Feature</b>
2	<b>Evolutions of the transport in the UTRAN</b>
4	<b>Evolutions of the transport in the CN</b>
1216	<b>Improvements of Radio Interface</b>
9	<b>RAN improvements</b>
1652	<b>Emergency call enhancements [using PS domain]</b>
2527	<b>Emergency calls without UICC/SIM in netw. with IMS</b>
32023	<b>Location Services enhancements 2</b>
1800	<b>(U)SIM toolkit enhancements</b>
1571	<b>Security enhancements</b>
1861	<b>Miscellaneous UE Conformance Testing Activities</b>
32021	<b>IMS Phase 2</b>
1365	<b>Support of Push Services</b>
42009	<b>Multimedia Messaging (MMS) enhancements</b>



## List of Rel-6 Features (2/3)

<b>UID</b>	<b>Feature</b>
42005	Rel-6 MExE enhancements
35010	Rel-6 OAM&P
35016	Charging Management
2062	Subscription Management
2499	Support of Presence Capability
50056	Enhanced A/Gb feasibility study
50063	Flexible Layer One for GERAN
50041	Uplink TDOA feasibility study
2544	Multimedia Broadcast and Multicast Service
31006	Speech Recognition and Speech Enabled Services
31008	Generic User Profile
31010	Digital Rights Management

## List of Rel-6 Features (3/3)

<i>UID</i>	<i>Feature</i>
31012	FS on WLAN-UMTS Interworking
31015	Priority Service
31018	Network Sharing
32016	QoS Improvements
33002	Support for subscriber certificates
15010	Rel-6 OSA enhancements
50401	Addition of frequency bands to GSM
50130	Seamless support of streaming services in A/Gb mode
34300	Performance characterisation of default codecs for PS conver
31029	Study of Feature Interactions Requirements
31030	Study on Privacy Capability

# ***Evolutions of the transport in UTRAN***

- No work assigned to this Feature, its status will be re-evaluated in next TSG RAN.

# ***Evolutions of the transport in CN***

- Preferred Framing Protocol
  - The new features will be added in existing specifications: TS 23.205, TS 29.205, TS 23.153, TS 29.007
  - Target is CN#20

## ***Rel-6 Improvements of Radio Interface***

- **Improvement of inter-frequency and inter-system measurement (R1).** Completion date delayed to **June 2003**
- **Multiple Input Multiple Output antennas (MIMO) (R1):** On progress. Joint discussion with 3GPP2 on channel modelling is going on regularly. Proposed completion date **September 2003** (old date was June 2003).
- **Improving Receiver Performance Requirements for the FDD UE (R4).** Scope (and completion date) to be revised, since new work areas have been identified. Completion date revised to **September 2003**
- **FDD BS classification (R4):** **Finished.**
- **Terminal power saving feature (R2):** Generic work item. **No progress**



## ***Rel-6 Improvements of Radio Interface.*** **Feasibility Studies**

- Radio link performance enhancements (R1): Completion date delayed to **September 2003**
- Improvement of inter-frequency and inter-system measurements for 1.28 Mcps TDD (R1) Work in progress. Several text proposals have been agreed for TR 25.888 v1.1.0. Completion date: **Mar. 2003**
- Fast Cell Selection (FCS) for HS-DSCH (R1) Initial study to establish the benefit of the feature against complexity is still commencing. Completion date: **Mar 2003.**
- Deployment of UTRA in additional spectrum arrangements (R4). Work in progress, completion date **March 2003.**
- UTRA Wide Band Distribution Systems (R4) No progress since RAN#16. Completion date **March 2003.**

## ***Rel-6 Improvements of Radio Interface.*** **Feasibility Studies**

- **Analysis of higher chip rates for UTRAN TDD evolution (R1)** In progress. Elements of the reference configuration have been completed for TR 25.895. Completion date: **June 2003**.
- **Uplink Enhancements for Dedicated Transport Channels (R1)** Work started. Traffic models to be used were agreed in principle. Completion in **June 2003**
- **OFDM analysis for UTRAN evolution (Study Item, R1):** A preliminary version of TR25.892 "Analysis of OFDM for UTRAN enhancement" was agreed. Contributions on requirements for the SI, simulation methodology and assumptions, and reference system for the evaluation of were discussed. Completion: **June 2003**

## ***RAN improvements – Rel-6***

- **Beamforming Enhancements (R1)** TR25.887 was raised to version 1.3.0 at RAN1#28bis including the measurements for Release'6, and has outlined the required signaling support over lub/lur for those measurements. Overall progress is estimated as 50%. Completion date delayed to **June 2003**.
- **RAB support enhancement (R2):** The Rel-5 part for RFC3095 was completed at RAN2#32. Rel-6 work not identified yet.
- **Improvement of RRM across RNS and RNS/BSS (R3):**
  - TR 25.891 v0.1.0 was approved and work is on going. TR was restructured and includes introduction, requirement and one proposed solution.
  - Several contributions were not treated at RAN3 #33 due to lack of time.
  - Completion date shifted to RAN #20 **June 2003**

# *RAN improvements. Feasibility Studies*

- **Evolution of the UTRAN Architecture (R3):**
  - TR 25.897 skeleton was approved as v0.1.0 at RAN3 #32 meeting including introduction only.
  - Several contributions were submitted at RAN3 #33 meeting but not treated due to lack of time.
  - Completion date unchanged: RAN #20 **June 2003**

# Emergency call enhancements

Emergency call enhancements for IP & PS based calls with (U)SIM  
and

Emergency calls from UEs without UICC/(U)SIM in Networks containing  
an IMS

**No progress since several TSGs, and no change to WIDs.**

- Requirements covered by SA1 in 22.228
- SA2 work completion new target is **April 2003** (was January 2002)
- Stage 3 (mostly by CN1) must re-target its completion date. Major impact on GPRS and IMS stage 3 specs – completion date **TSG#21**.

*Note on emergency calls in Rel-5:* CN1 has CRs to CN#18 on the remaining open points on conflicts between service and emergency numbers, and GGSN in HPLMN for roaming UEs.

This still means no specific IMS/PS emergency calls for Rel-5 and further progress on this in Rel-6 is dependant on SA2 input.

# ***LCS enhancements 2 (1/2)***

- **Building blocks progressing normally.**
- **List of improvements for Rel-6 already approved at SA#16 and 17:**
  - **Improvement on Le interface, Enhanced support for user privacy and subscriber data handling, Enhanced inter-GMLC interface, Support of the Presence Service Architecture, New events for triggered location reports, FS on applicability of GALILEO for LCS**
  - **New items for SA#18: addition of consumer oriented categories and service types (CRs SA #18)**

# *LCS enhancements 2 (2/2)*

- **RAN aspects (called “UE positioning”):**
  - **Study Item on Enhancements to OTDOA Positioning using advanced blanking methods: Several discussions on the simulations assumptions in RAN1. Suggested delay of 3 months for the completion date: March 2003, Circulation of draft TR for review. **New proposed date: June 2003, completion.****
  - **“Open SMLC-SRNC Interface within the UTRAN to support Rel4 positioning” : Due to lack of time no documents were treated in RAN3. No progress on the WI. Completion date **March 2003****



# ***UICC/USIM enhancements and interworking for Rel-6***

## **USIM toolkit enhancements**

- **C SIM API: ‘C’-language binding for (U)SIM API for Release 6. Approved at T#17.**
- **Test specification for ‘C’-language binding for (U)SIM API. New specification presented for information at T#17. Approval delayed to TSG T#19.**

## **UICC enhancements**

- **Enhancement of UICC-Terminal interface communication speed: approved at T#17.**



# Security Enhancements Rel-6

- **Network domain security**
  - **NDS/IP:**
    - Feasibility study TR 33.910 v 2.0.0 to SA#18 for **approval**.
    - WID for specification work to be presented to SA#18 for **approval** (based on TR 33.910 study).
  - **GERAN A/Gb mode security enhancements :**
    - WID to be presented to SA#18 for **approval**.
  - **G-MILENAGE Algorithm:**
    - Completed by ETSI SAGE, approved by SA WG3#26 for presentation to SA#18 for **Approval**.
- **Rel-6 MAP application layer security**
  - **Security signalling flows for the Ze interface:**
    - WID presented at TSG#18
    - The first draft of 3GPP TS 29.200 will be present in CN4#18, February 2003
    - Target is CN#21

## **IMS Phase 2 (1/2)**

- **Different independent items, listed in a single WID approved at SA#17:**
  - **Identity portability in IMS (SA1 CRs SA #18), IMS local services, IMS Group management (22.250 approved at SA #18), IMS Conferencing, PSS alignment to IMS, IMS Messaging (22.940 and 22.340 approved at SA #18), Additional SIP Capabilities Support, Emergency Calls in IMS, Commonality and Interoperability between IMSs**
  - **Work ongoing at SA1 and SA2 on these issues, global completion date for Stages 1 and 2 in June 2003**
  - **Ongoing work at CN on IMS to IP and PS interworking, IMS to CS interworking,**
  - **Other items (no work for the time being): Service continuity IMS to UMTS/GSM CS**
- **A WID in NP-020385 with 8 subtasks was agreed in TSGN#17 for stage 3 work led by CN1.**

# IMS Phase 2 (2/2)

- ***Mn interface (IM-MGW to MGCF) enhancements***
  - WID approved in TSG#17, Target completion date is CN#20
  - The work of new specification 3GPP TS 29.332 is going on.
- ***Mp (MRFC - MRFP) interface protocol definitions***
  - WID approved in TSG#18, Target is CN#20
  - The first draft of 3GPP TS 29.333 will be present in CN4#18, February 2003
- ***[added at SA#18] Study of subscriber and operators relationship in IMS and related ISIM requirements***
  - WID presented by SA1 and approved in SA#18, Target is SA#19
  - Implication of other groups not identified so far. SA1 chair anticipates that at least SA2 needs to be involved.

# ***Performance evaluation of multimedia codecs for PS conversational services***

- **Main results:**

- *Conversational testing methodology selected*
- *UMTS simulator under definition*
- *Input on packet loss model/values needed*
- *Test plan & experiment design under definition*
- *Budget defined up to 160 kEURO (+ 34 kEURO contingency left from AMR-WB exercise)*

# *Push Services*

- **CRs on Charging, Delivery Class against TS 22.174 (Stage 1)**
- **WID presented for approval at SA#18 for Stage 2 aspects.**
  - **Discussions at SA2 on whether to re-sue “old” TR on the feasibility study or to start new TR from scratch.**
- **Stage 3 not started**

# ***MMS (Multimedia Messaging Service) Enhancements***

- **Enhancements of the following and other areas are under consideration:**
  - MM1, MM4 reference points enhancements
  - interworking and transcoding enhancements
  - terminal capability negotiation enhancements
  - alternative User Agent capabilities
  - detailed description of User Profile mechanisms (CR from S1 at SA #18)
  - security and privacy enhancements
  - Digital Rights Management
  - enhanced charging methods (CR from S1 at SA #18)
  - enhancements of the interworking with VAS applications (CR from S1 at SA #18)
  - enhancements for streaming

- **work has started**

# ***MExE Enhancements Rel-6***

- ***WID MExE Rel-6 Improvements and Investigations***
  - **Considered as 90% complete.**
  - if there is no input at TSG-T#19, the work item will be closed (i.e. no major new improvement allowed)
- ***WID MExE Run-Time Independent Framework Feasibility Study***
  - **Completed at TSG-T#18.**  
TR 22.857 Runtime Independent Framework Feasibility Study approved at TSG-T#18.



# OAM&P

- Was previously (Rel-4/5) Feature “Charging and OAM&P”, split in Rel-6 in two separate Features “OAM&P” and “Charging”
- Rel-6 OAM&P **20%**
  - Principles, high level Requirements and Architecture **10%**
  - Performance Management (32.41x, 52.402) **15%**
  - User Equipment Management **10%**
  - Network Infrastructure Management **5%**
  - Trace Management **50%**
- User Equipment Management (**impacts other TSGs & OMA**) **10%**
  - Started 32.150 (SA5) EM requirements and architecture; Stages 1 and 2
  - Awaiting start of 27.150 (T2) UEM protocol specification; Stage 3. Note: **not sufficient support to start work in T2, interested companies should contribute**
  - Ongoing joint meetings with T2 SWG2
  - Liaison with the Open Mobile Alliance
- Trace Management (**impacts other TSGs**) **50%**
  - 32.421 Trace Concepts and Requirements – sent v200 to SA#18 for Approval (**SP-02xyxw**); sent with LS to CN, GERAN, RAN, SA2
  - 32.422 Trace Control and Configuration Management enhancement (45% complete)
  - 32.423 Trace Data Definition and Management (30% complete)
  - Trace Impacts on Network Signalling Interfaces: 11/2002 sent requirements to RAN (JM with RAN2/3 in Feb 2003) and will send requirements to CN/GERAN early 2003.
  - 52.008 GSM Subscriber and Equipment Trace (50% complete)



# Subscription Management

- **Subscription Management 45%**
  - 32.140 (stage 1) submitted to SA#15 is now re-submitted as v110 to SA#18 for Information
  - 32.141 (stage 2/3) is 20% complete
  - SM is closely linked to GUP

# Charging Management

- Future joint activities (GSMA CPWP on LCS charging, SA2 on bearer charging)
- Rel-6 WIDs for Feature and 3 BBs sent to SA#18 for Approval:  
Charging Management (CH)
  - Charging Management for Bearer level (CH-BC)
  - Charging Management for the IMS (CH-IC)
  - Charging Management for the Service domain (CH-SC)
- Some Work Tasks:
  - Align PS domain online charging with WLAN
  - WLAN offline and online charging
  - Alignment of existing charging specifications
  - Alignment of existing stage 2 charging specification
  - MMS enhancements
  - LCS Enhancements
  - Alignment of existing charging specifications
  - Evolution of IMS charging to generic applications
  - Enhancements to IMS charging
  - Analysis of implications on IMS charging from service charging
- WID on “Overall architectural aspects for IP flow based bearer level charging” presented by SA2 approved at SA#18

# ***Presence***

- **Stage 1 approved at SA#13 in TS 22.141.**
- **Refinement of Stage 2: CR on TS 23.141 from SA2 (23.141 approved at SA#17)**
- **Stage 3: Work progress quickly in CN1(40%). To be completed by TSG#20.**
- **Work ongoing in SA3. Active contribution on Presence Security issues.**
- **Other aspects (charging, testing) not started technically.**

## ***Multimedia Broadcast/Multicast Service (MBMS)***

- Stage 1 in 22.146 stable, approved at SA#13.
- Stage 2 progressing (some delay): TS 23.246 now planned to be presented for approval at SA#20
- RAN aspects: Some requirements added in TR 22.992. LS sent to SA2 outlining the architectural discussions and asking some clarifications on "tracking" and MBMS service creation. Due to lack of time for MBMS discussions in RAN2/3#33, a Rel-6/MBMS 2 days Adhoc is planned to take place in January (before SA2#29, 20-24 January 2003). RAN3 decided to create a RAN3 internal TR (TR R3.013) for RAN3 MBMS issues.
- GERAN aspects: just started (10 %).
- Stage 3 in the CN: Work not started.
- Work **ongoing** in SA3.

# GERAN Rel-6 (1/3)

## GERAN Work Items for Release 6 :

- Enhanced A/Gb feasibility study: **75% ready**
- Seamless support of streaming services in A/Gb mode: **~ 20% ready**
- Flexible Layer One for GERAN: **30% ready**
- Addition of frequency bands to GSM: **80% ready**
- Uplink TDOA feasibility study **COMPLETED**
- Support of the Multimedia Broadcast Multicast <sup>TM</sup> Service (MBMS) in GERAN: **10% ready**

## ***GERAN Rel-6 (2/3) Testing activities***

***(all just started, or even not started, yet)***

- MS conformance tests for Intra BSC NACC: **50%** ready
- GERAN MS / BTS tests support of IP multimedia : **TERMINATED**
- GERAN MS / BTS tests for GERAN interface evolution : **0%**
- Multiple TBF in A/Gb mode – MS tests : **0%**
- GERAN MS Conformance tests for the Flexible Layer One : **0%**
- Addition of frequency bands to GSM – Conformance tests : **0%**
- GERAN MS / BTS Conformance tests En. Power Control : **0%**
- GERAN MS Conformance tests for 8-PSK Half Rate: **0%**
- GERAN BTS Conformance tests for 8-PSK Half Rate : **100 %**
- GERAN MS Conformance tests for Wide Band AMR: **0%**
- GERAN BTS Conformance tests for Wide Band AMR: **100 %**
- GERAN MS / BTS Conformance test for LCS : **on-going**

# ***GERAN Rel-6 (3/3): New/reviised GERAN WID***

- **GP-023316 : Uplink TDOA location determination for GSM and GPRS**
- **GP-023400 : Feasibility Study for Single Antenna Interference Cancellation (SAIC)**
- **GP-023424 : A/Gb Streaming: MS conformance testing**



# *Speech Recognition and Speech Enabled Services*

## Work **ongoing**

- Stage 1: TR 22.977 and TS 22.243 on SES already approved at SA #17. Changes for Proposed default codec on the TS.
- Stages 2 and 3: Work not started. Anticipated completion date for SA2 (March 2003) to be confirmed
- New WID SA4 on Codec Work to Support Speech Recognition Framework for Automated Voice Services **approved** at SA #18



# *Enhanced Tandem Free Operation*

**New WID SA4 on Enhanced Tandem Free Operation  
presented for approval at SA #18**

**Not approved at SA#18: sent to SA2 for evaluation  
of the global impact on the system.**

# ***Packet Switched Streaming Rel-6***

- **New WID SA4 on new set of enhancements on Packet Switched Streaming presented for approval at SA #18**
- **Modifications to Stage 1 in TS 22.233 (SA #18)**
  - **capability for Real Time monitoring of application level feedback**
  - **support of Digital Rights Management**
  - **standard communication protocol between PSS and MMS**
  - **asset information capability to be included**
  - **Clarification of transport of streaming media, avoiding degradation and handling of errors**
  - **parameter to measure the quality of a link in terms of packet loss**
  - **Addition of the requirement for Content Cache and its function**

## *High Audio Quality*

- New WID SA4 on AMR-WB extension for High Audio Quality approved at SA #18. Text on enhancements of AMR-WB to be reviewed by SA4.

# *Generic User Profile*

## Work **ongoing**

- Stage 1: 22.240 planned to be presented for approval at SA#19
  - Update of WID for co-ordination with ongoing work in OMA and other bodies (in SP-020816)
- Stage 2: TS progressing well, planned to be presented for approval at SA #20
- WID identifying T2 related work approved at T#18.
- Stage 3: no work started.

# *Digital Rights Management*

- TS on Stage 1 22.242 stable,
- CRs to 22.140 on MMS for MMS/DRM relationship approved at SA#18
- For Stages 2 and 3, it has been decided to refer to OMA work

# *WLAN/UMTS interworking*

## Work ongoing

- Stage 1 TR 22.934 approved at SA#17. Outstanding issues:
  - <void>,
  - use cases for access to 3GPP services from WLAN
  - CR (SA #18) to provide clarification of support of APNs for Scenario 3, 4 and 5
  - CR (SA #18) on WLAN-LCS interworking requirement
- Stage 2 (TS 23.234) will be presented at SA#19 for approval. Scenarios 4 and onwards not for Rel-6.
- Stage 3 not started

# Priority Service

- **Stage 1 TR 22.950 approved at SA #16**
  - addition of references to SIM Application Toolkit and Access Service Classes (ASC)
  - Proposal to add a new High Level Requirement to support Priority Queuing of Trunk resources to increase the probability of call completion (CR SA #18).
  - Open issue in TR 22.950 for the ability to distinguish Priority Users and eMLPP Users (CR SA #18)
  - Addition priority service and emergency calls interactions
  - Clarification of the high level requirement given in priority call origination and termination sections
- **Other work started**
  - CRs to 22.067 Rel-5 for Priority
- **No other work started in other WGs.**

# Network Sharing

- **Stage 1 TR 22.951 Presented for Approval at SA #18**
  - **Open Issues:**
    - **Security Requirements**
    - **Limitations for Scenario1: Multiple core networks sharing common radio access network in R99**
  - **Main conclusions have been drafted**
- **Stage 2 work anticipated to be started at next S2 meeting**
- **No other work started**



# QoS Improvements

- **This Feature consists in:**
  - a Feasibility Study on Dynamic Policy Control Enhancements for End-to-End Quality of Service (QoS)
    - Stage 2: WID revised at SA#17 to clarify that a FS is initially proposed, in TR 23.917 (intended completion date in SA#19). Technical work ongoing at SA2.
    - Stage 3: Initial CRs presented – awaiting clarifications from SA2.
  - A new WID approved at SA#18 on Policy-based control of DiffServ.
    - Work just starting at SA2.
    - Commented at SA#18 that SA1 should be involved.

## *Radio optimisation impacts on PS domain architecture*

- SA2 has started working on the issue
- No other group involved so far, **except some LSs exchanged with some WGs.**

# ***OSA Improvements***

- **Reintroduction in Rel-6 stage 1 (TS 22.127) of functions previously removed from Rel-5:**
  - User Data Management (CR SA #18)
- **New OSA functions to be introduced in Rel6:**
  - CR to enforce the alignment with Parlay, by introducing the possibility OSA includes even higher level web-service based APIs
  - CR to announce to interested applications that a new SCS is registered to the Framework related CR to announce information about backward compatibility of the new SCS compared to already registered SCS(s).
  - Provision of detailed requirements on capabilities for an OSA application relating to IP Sessions
  - enhancement of the support that an OSA gateway can provide to end-user authentication
  - Introduction of flexibility to allow access to the SCF by applications in another administrative domain

# OSA Improvements

## Stage 3:

- SA1#18 (11/02) added new & removed existing requirements in 22.127 (subject to SA#18 approval)
- Correspondingly aligned the CN5 WID submitted to CN#18 (NP-020537)
- Good working spirit in the Joint WG (Parlay, 3GPP CN5, ETSI SPAN with 3GPP2 & JAIN participation)

### Rel-6 OSA enhancements **10%**

(WID approved at CN#17 in NP-020438; update in NP-020537 sent to CN#18)

Support of a Generic Network Interface Function

User Data Management / User data security management (changed from GUP)

Retrieval of Visited Network capabilities

Access to IP Session information

Multi Media Messaging function

Enhanced user privacy in LCS

Policy management extensions

Presence and Availability Management (linked to CN1's Feature WI "Rel-6 Presence Service Enhancements" )

Information Services

Information Transfer

## ***Privacy Capability***

- Work started in SA1, no output
- No other work started

## ***Feature Interaction***

- Work started in SA1, no output
- No other work started

# *Support for Subscriber Certificates*

**Progressing in SA3 (with SA1 & SA2 involvement).**

- **TR in progress (Active contribution at SA3#25 and SA3#26). To be presented for information**

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***New Information added between  
CN/RAN/T and SA#18***

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## ***New Work Items approved at TSG RAN #18***

- **New WI under the Radio Interface Improvements feature:**
  - WI on “UMTS 850”, expected completion March 2004
- **New SIs under the RAN Improvements feature:**
  - SI: “Improved Access to UE Measurement Data for CRNC to support RRM”, expected completion June 2003

## ***IMS Commonality and Interoperability***

- **Work on Operator’s scenario in SA1 related to this issue**
- **SA2 has started work:**
  - drafting an internal place-holder TR.
  - CR against 23.228 expected at SA#19.
  - Requirements and considerations for Service-Based Local Policy and QoS issues have been included in TR.
- **Stage 3: WID covering all CN aspects approved at CN#18**



## ***Handling of Early UEs***

**Full name: Provision of UE Specific Behaviour Information to Network Entities**

**– General aspects:**

- “Retroactive” WID approved at SA#18 in SP-020795
- In SA2: TR approved in v.6.0.0 at SA#18 (SP-020797) analysing different solutions for handling indications regarding UE maturity

**– RAN aspects:**

- In R2: RAN agreed on the so called "Early Hooks on the Air Interface" solution and approved a set of CRs (RP-020726) defining the containers for the SBI (Specific Behaviour Information) IEs (Information Element), to be used when the need arises.
- RAN also agreed to implement an lu based solution, which will allow the transfer of IMEI-based information from the Core Network to the RNC. Two proposals are available: IMEI-SV as such or a bitmap based on IMEI-SV. Expected completion date March 2003, after agreement on the lu based solution. Dedicated ad-hoc meeting to take place in January on this topic.



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# ***Conclusion***



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# ***Conclusion***

- The majority of the WID target March or June 2003 for completion of the Stage 2.
- An average of six months after completion of the Stage 2 should be anticipated for providing the Stage 3.
- Clearer views on Rel-6 time frame should be provided by TSG#19, based on a more precise analysis (feature by feature).