

**Source: TSG SA Chairman**

**Title: MCC Review of the Work Plan at Plenaries #13**

**Agenda item: 5.2**

**Document for:**

|             |          |
|-------------|----------|
| Decision    |          |
| Discussion  |          |
| Information | <b>X</b> |

3GPP TSGs, Meeting #13  
Beijing, China, 18-27 September 2001

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# ***MCC Review of the Work Plan at Plenaries #13***

**This presentation includes the results of TSG RAN, T  
and CN #13**

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# List of Rel 5 Features (1/2)

| <b>Unique ID</b> | <b>Title</b>  |
|------------------|---|
| 2                | Evolutions of the transport in the UTRAN                  |
| 4                | Evolutions of the transport in the CN                     |
| 2476             | High Speed Downlink Packet Access                         |
| 34001            | Extended Transparent End-to-End Packet Switched Streaming |
| 1216             | Improvements of Radio Interface                           |
| 9                | RAN improvements  |
| 1273             | Provisioning of IP-based multimedia services              |
| 1652             | Emergency call enhancements                               |
| 1517             | Global Text Telephony                                     |
| 1367             | VHE enhancements  |
| 1637             | OSA enhancements  |
| 1638             | CAMEL phase 4   |
| 2464             | MExE enhancements Rel-5                                   |
| 1625             | Wideband Telephony Service - AMR                          |
| 1826             | Terminal interfaces                                       |

# List of Rel 5 Features (2/2)

| <b>Unique ID</b> | <b>Title</b>  |
|------------------|---|
| 1536             | Location Services enhancements                            |
| 1560             | UICC/(U)SIM enhancements and interworking                 |
| 1800             | (U)SIM toolkit enhancements                               |
| 1571             | Security enhancements                                     |
| 1365             | Support of Push Services                                  |
| 1142             | Charging and OAM&P  |
| 2062             | Subscription Management                                   |
| 2243             | Intra Domain Connection of RAN Nodes to Multiple CN Nodes |
| several          | GERAN issues  |
| 2499             | Support of Presence Capability                            |
| 2507             | Display of Service Provider name on UE                    |
| 2520             | User Equipment Management                                 |
| 2527             | Emergency calls without UICC/SIM in netw. with IMS        |
| 2556             | End to End QoS for PS Domain (including IMS)              |
| 2569             | Messaging enhancements Rel-5                              |
| 2544             | Enhancement of Broadcast and Introduction of Multicast    |

# ***Evolutions of the Transport in the UTRAN***

## ***IP Transport in the UTRAN (R3) – Rel-5.***

- Ad Hoc meeting #4 in August. Most of the study areas are complete. TR 25.933 v1.4.0 presented to RAN #13 for information. **WI is not complete.**
- Agreements have been reached for the following topics:
  - Iu-CS user plane protocol stack: RTP/UDP/IP/Data Link Layer/Physical Layer with RTCP as optional.
  - Iu-PS user plane protocol stack: GTP-u/UDP/IP/Data Link Layer/Physical Layer.
  - Header compression based on RFC 2507 and its negotiation on RFC 2509.
- **Contentious issues:**
  - Signalling bearer protocol stack: Despite long discussions, no agreement could be reached.

## ***Evolution of transport in UTRAN and GERAN (R3) – Rel-5.***

- No work was done on this WI. **WI is not complete.**

# *Evolution of the transport in the CN*

## Feasibility Study on SCCP-User Adaptation:

### Work on schedule:

- The TR 29.903 on FS on SS7 signalling transportation in the CN with SCCP-User Adaptation (SUA) is 50 % complete.
- To be presented for approval at CN#14.

# ***HSDPA (1/2)***

***Or “High Speed Downlink Packet Access”***

- **General issues (R2)**
  - **On schedule.**
  - Joint R2/R3 meeting in August.
  - Substantial progress. TR 25.855 approved at RAN #13:
    - Stage 2 description near-complete.
    - Transferred to TS 25.308 (approved in RAN #13) to cover normative text (and for reference purposes by ITU).
- **Physical Layer (R1)**

Agreements on:

  - TTI length for FDD and 1.28 Mcps TDD
  - Signalling scheme
  - HARQ combining schemes
  - Control channel structure

## ***HSDPA (2/2)***

- **Layer 2 and 3 aspects (R2)**  
Major decisions on HARQ protocol:
  - Asynchronous downlink
  - Synchronous uplink
- **Iub/Iur protocol aspects (R3)**  
Work has started:
  - TR 25.877 contains proposed study areas for Iub and Iur interfaces.
  - Issue of flow control over Iub discussed.
- **RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing (R4)**
  - Presentation has been given, but work has not started.



## ***Improvements of Radio Interface (1/3)***

- **Items on schedule:**
  - ***BS Classification for 1.28 Mcps TDD option (R4)***
  - ***FDD BS classification (R4)***
  - ***Hybrid ARQ II/III (R2) – In progress as part of HSDPA WI***
  - ***Multiple Input Multiple Output antennas (MIMO) (R1)***  
TR outline created
  - ***Enhancement on the DSCH hard split mode (R1)***  
TR to be presented for information to RAN #13

## ***Improvements of Radio Interface (2/3)***

- **Items in progress:**

- *Improvements of inter-frequency and inter-system measurement (R1)*
- *UMTS 1800 (R4) – In progress (release independent)*
- *UMTS 1900 (R4) – In progress (release independent)*
  - *On UMTS 1800/1900, TS 25.307 (Requirements on UEs supporting a Release Independent Frequency Band) approved at RAN #13*

- **Items no progress on:**

- *Improved usage of downlink resource in FDD for CCTrCHs (R2)*
- *Terminal power saving feature (R2) – No work identified*

- **Out of schedule:**

- *TDD BS classification (R4) – finished in RAN#12 but discussion resumed*

## ***Improvements of Radio Interface - FS (3/3)***

### **Feasibility Studies on:**

- ***Fast Cell Selection (FCS) for HS-DSCH (R1) – Just started***
- ***Radio link performance enhancements (R1)***
  - Tx-diversity : In progress with MIMO discussion
  - Other topics : Enhancement of SSDF; RAN #13 agreed to include this as part of new WI *Beamforming*.
- ***Improved Common DL Channel for Cell-FACH State (R2) – RAN #13 decided results have to be ready by RAN #14, or FS to be deleted.***
- ***USTS (R1) – In progress. System simulation results have been presented for various cases. RAN #13 was asked to derive Rel-5 WI for this feature, but RAN #13 did not approve (study incomplete).***
- ***UE antenna efficiency test method performance requirements (R4) – In progress / On schedule***
- ***The re-introduction of the downlink SIR measurement (R4) – In progress / On schedule***
- ***UTRA Wide Band Distribution Systems(R4) – In progress but behind schedule***
- ***Mitigating the effect of CPICH interference at the UE(R4) – In progress but behind schedule***

# *RAN improvements (1/2)*

- **On schedule:**
  - **RL Timing Adjustment (R3)**
    - TR 25.878 v0.2.0; open issue on timing adjustment mechanism.
  - **Separation of resource reservation and radio link activation (R3)**
    - A proposal was included in the TR on how delayed activation could work when reserved resources remain tied to a certain UE context. The other case is FFS.
    - TR 25.879 v0.2.0; several open issues are left.
  - **Improvement of Radio Resource Management across RNS and RNS/BSS (R3)**
    - TR 25.881 v0.2.0; there were several open issues. RAN #13 was asked to move this FS to WI, but this was not approved.
  - **Node B synchronisation for 1.28 Mcps TDD (R1)**
    - TR 25.868 for information at RAN#13.

# *RAN improvements (2/2)*

- **Ongoing:**
  - Re-arrangement of Iub Transport Bearers (R3)
    - Several open issues have been identified.
- **No progress:**
  - RAB support enhancement (R2)
    - New work approved at RAN #13:  
RFC 3095 context relocation in SRNS relocation

# ***IP-based Multimedia Services (1/3)***

- **Stage 3 delayed until March 2002, Security aspects delayed until June 2002**
- **Stage 2 not fully stable for:**
  - Charging (prepay and “post pay”)
  - Emergency sessions
  - Signalling PDP context
  - ⇒ *Additional SA2 drafting meeting in October*
- **Stage 3 not yet defined for:**
  - The items above
  - SIP and SIP compression (IETF dependencies should be completed by March 2002)
  - Detailed stage 2 and Stage 3 progressing at N1: TS 24.228v120, 23.218v052 and TS 24.229v040 are planned for March 2002
  - Security (S3 and T3): see next slide

# *IP-based Multimedia Services (2/3)*

- **Security aspects (“Access Security for IMS”):**
  - Stage 2 targeted for March 2002 approval
  - **Stage 3** targeted for **June 2002** approval
  - Completion dependent upon progress in IETF on Extensible Authentication Protocol (EAP), Security Mode Set-up and Integrity Protection
  - Work on mechanism for integrity of SIP messages ongoing in SA3
  - Requirements draft developed by SA3 for input to IETF in October 2001
  - On T3 aspects: discussion has started, but little progress yet. Concept of ISIM being discussed.
  - The impact on compression in RAN has also to be investigated

# *IP-based Multimedia Services (3/3)*

- **Other aspects not yet stable:**
  - Header removal/compression in UTRAN and/or GERAN
  - Number portability in IMS (requirements to be clarified)
  - IMS local services
  - CAMEL and OSA in IMS and SIP Application Server (ISC interface)
  - interworking with external IP and CS networks
  - Specification of MRF
  - UE functionality split



# *Global Text Telephony*

- **Completed** and closed at SA#12

## *VHE enhancements*

- **“dormant mode”**: very little activity related to this WI

# ***Emergency call enhancements***

## **For IP & PS based calls**

### **Work ongoing**

- Requirements covered by S1 in 22.228
- Stage 3 completion by N1 depends on the related IMS progress now under discussion in S2

## ***Emergency calls from UEs without UICC/SIM in Networks containing an IMS***

- No work done in SA2 (impacts on 23.221, 23.060 and 23.228 still to be specified)
- Stage 3 targeted for TSG#15
- To be confirmed if it is still applicable to Rel5

# ***CAMEL phase 4 (1/3)***

- **Stage 2 and Stage 3: Draft TSs are under development.**
  - First official Rel-5 versions of CAMEL specs will be inputs for CN plenary in **March 2002** in form of one major CR to Rel-4 version.
  - IMS CAMEL needs adjustment in the target date taking the whole IMS work into account.

## ***CAMEL phase 4 (2/3)***

### **Progress on CAMEL4 BBs:**

#### **Almost complete:**

- Interactions with Optimal Routing
- Inclusion of flexible tone injection: CPH interaction is FFS
- Provision of location information of called subscriber

#### **On schedule for March 2002:**

- CAMEL control over MT SMS
- Call Party Handling
- Notification of GPRS mobility management to CSE

## ***CAMEL phase 4 (3/3)***

### **Delayed:**

- Charging notification to the CSE
- Enhancements of dialled services
- Inclusion of ODB data in the CSE-HLR interface
- Location information during an ongoing call
- GPRS Any Time Interrogation: no progress yet
- Mid call procedure for MO and MT calls

### **Work just started:**

- CAMEL support by the IMS (see slide on IMS)

“CAMEL support by the IMS” is added under WI “Provisioning of IP-based multimedia services” instead of BB “CAMEL applicability to media streams like VoIP” which is deleted

## ***MExE Enhancements Rel-5***

- **MExE Improvements and Investigations on schedule for December 2001**
  - **main enhancements**
    - investigate ECMA “Common Language Infrastructure” Support as Classmark 4
    - investigate support of terminal management
    - General enhancements and improvements
    - security enhancements
- **MExE Security Analysis no progress due to lack of input, rescheduled for June 2002**

## *Wideband AMR*

- AMR-WB Algorithm + test sequences: **completed** (c/o S4)
- AMR-WB Characterisation : Phase 1A is **completed**, Phase 1B is **on-going**, Characterisation Phase 2 is **under way** (c/o S4)
- Tandem Free Operation: inclusion of AMR-WB is **under way** in S4
- AMR-WB Floating-Point version: new WID presented at SA#13

### **AMR-WB work in progress:**

- A list of Network / Security / Charging Aspects of the AMR-WB Feature to be progressed c/o related WGs; in particular:
- Signalling related to AMR-WB under discussion in CN; expected resolution at CN#13
- AMR-WB Service requirements c/o S1: no input received so far
- AMR-WB architectural aspects c/o S2 : no input received so far

## ***Extended Transparent End-to-End Packet Switched Mobile Streaming Applications***

- WI approved at previous SA plenary (work just started).
- TS 26.233 and TS 26.234 in Release 5: **work in progress** to be concluded **by March** (one major CR to be provided on Rel-4 version of both specs)
- Discussion between S4 and S1 (all requirements potentially not provided in the first release)
- There were 2 entries for this feature in the Work Plan (under S1 and under S4 responsibilities): this has been re-arranged into one and the main responsibility is assigned to S4.
- **Multimedia Codecs and Protocols for Conversational PS Services:**
  - TS 26.235 in Release 5: **under Change Control**
  - Transport Protocols for PS conversational multimedia applications: to be completed at SA#14
  - Performance characterization of default codecs for PS conversational multimedia applications: to be started (completed at SA#14 or SA#15)



## *Other codec issues*

- Work **in progress** on Acoustic issues, e.g. Ambient Noise Rejection, Speech and Noise Bandwidth, ...
- Audio visual terminal characteristics: Work **in progress** on Harmonization of requirements for terminal “acoustics” in GSM/GERAN and 3G (specifically TS 43.050 / TS 26.131 in Release 5); test methods in TS 51.010 / TS 26.132.

## *Terminal Interfaces Rel-5*

- **Wide Area Data Synchronization**
  - vObjects and Other Constructs for Use in Data Synchronization  
**little progress, rescheduled for June 2002**
- **Terminal Local Model enhancements**
  - **little progress, rescheduled for March 2002**
    - aspects of UE Functionality Split to be accommodated

## ***LCS in Rel-5***

- **Re-submission to SA#13 of the WID on LCS for Rel-5 (was rejected at SA#12 because of not enough supporting companies and unclear description of some of the proposed items)**
- **LCS activities for Rel-5 are:**
  - **LCS in GERAN PS domain,**
  - **Event driven deferred LCS request,**
  - **Periodic location reports,**
  - **Standardization of the Le interface (a stand-alone WI was already approved on this topic in SP-010180),**
  - **Enhanced support for user privacy and subscriber data handling.**
  - **UE positioning:**
    - **UE positioning enhancements for 1.28 Mcps TDD – RAN#15**
    - **Open interface between the SMLC and the SRNC within the UTRAN to support A-GPS Positioning – finished at RAN#13 (TS 25.452 + CRs to existing specifications)**
    - **Open interface between the SMLC and the SRNC within the UTRAN to support UTRAN Rel-4 Positioning – RAN#14 but could be delayed to RAN#15**
- **Work on-going, Stages 1, 2 and 3 planned to be completed by March 2002**

## ***UICC/(U)SIM enhancements and interworking***

- work has started on “UICC/USIM Transport Protocol” but some **risk of delay until March 2002.**

## ***(U)SIM toolkit enhancements***

- “USAT Interpreter” now Rel-5 (was Rel-4). Two new specifications for **approval at T#13 and** a further one for approval is expected at **T#14.**
- work on the test specification for “USAT Interpreter” not yet started.

# Presence

## Potential delay:

- Requirements being defined by S1
- S2 just starting the related work: a WID is presented at SA#13 to clarify S2 involvement
- T3: work has not yet been identified.

# *Display of Service Provider Name*

- **Graphical representation (Rel-5 part):**
  - Requirements defined
  - T3 part not done
- **All the other items are Rel-4 and have been completed**

# Security Enhancements Rel-5 (1/2)

- Network domain security
  - MAP application layer security (Automatic Key Management):
    - material available, but no proposal for Zb interface at present. **Contribution needed to 33.200 to meet Rel-5 target date**
  - Control plane protection IP-based CN (e.g., GTP, CAP, MAP/IP, provided by IPsec)
    - TS 33.210 expected completion **June 2002**

# *Security Enhancements Rel-5 (2/2)*

- Protection for user plane data (GTP-U)
  - WI deleted due to lack of support
- FIGS
  - No contribution to SA WG3 and no progress. Consideration of deletion if no support.



# Push Services

**Work delayed until March but clear willingness to still have it in Rel5**

- At SA2, only the question of the bearer to support Push Service has been addressed so far and is still not solved: “always on”, NRCA or SMS-based. TR 23.974 is presented for approval at SA#13 : there is no agreement to introduce any changes on Bearer level in Rel-5 due to Push.
- It is hoped that the Stage 1 will allow S2 to solve this question (the Stage 1 is expected to be approved by December 2001).
- SA2 will come back to the Stage 2 of push services standardisation when Stage 1 has been approved, with potential re-consideration of the conclusion on the bearer issue.

## ***Charging and OAM&P***

- Rel-4 **completed** and closed at SA#13
- Rel-5 **25%** complete at SA#13; none under CR
- TSG approval target remains **03/2002**

## ***Subscription Management***

- **50%** complete at SA#13 (32.140)
- Co-ordination with VHE Enhancements & User Profile (SA1), HSS Interface (CN4). Awaiting feedback from SA1, CN4.
- Co-ordination with UE Management (SA5) on terminology relating to actors and roles
- TSG approval target remains **12/2001**

## ***FS on User Equipment Management***

- **10%** complete at SA#13 (32.802)
- Draft TR 32.802 V0.0.2 submitted to TSG-T#13 (09/01)
- Joint SA5-T2 leadership of the WI progressing with a joint meeting in Cancun (11/01)
- TSG approval target remains **03/2002**

## OSA enhancements

- CN#13 approved a set of CRs which align 3GPP OSA Rel4 as delivered to CN#12 with ETSI's SPAN version 1.0 and Parlay 3.0 (NOTE: CN5's OSA API is a sub-set of the Parlay/SPAN specifications)
- Rel-4 **completed** and closed at TSG#13
- Rel-5 **25%** complete at TSG#13
- TSG approval target (SA1/2, CN5 in co-operation with SA3/5,CN1,T2) remains **03/2002**
- Parlay/SPAN/CN5 work schedule vs. target delivery date for 3GPP Rel5 (12/2001) may result in CN5's Rel5 OSA Stage 3 delivery in **03/2002**

### Stage 3 OSA APIs by 3GPP CN5 (OSA)

- BB WI (OSA Stage 3) submitted to CN#13 for approval (**NP-010535**)
- **Service Aspects** - aligned with the service provisioning architecture specified by SA1 and SA2 (enable the provision of 3<sup>rd</sup> Party services for UMTS)
- **Charging Aspects** - satisfy the charging requirements from SA1 and SA2 in co-operation with SA5 (22.127 v.5.0.0 available) and TR 23.815 (draft)
- **Security Aspects** - satisfy the security requirements from SA1 and SA2 in co-operation with SA3 (22.127 v.5.0.0, 22.121 v.5.1.0, TR 23.955 v.0.1.0 and in the security architecture)
- Mapping of Multi-party CC to SIP/ISC - co-operation with CN1 (23.218 v.0.6.0)

# *Iu-Flex*

*Also known as “Intra Domain Connection of RAN Nodes to Multiple CN Nodes”*

## **Work potentially delayed:**

- The Stage 2 in TS 23.236 is presented to SA#13 for approval. An LS is sent to RAN3, RAN2, GERAN2, CN1 and CN4 to ask them to review the Stage 2 and provide the corresponding Stage 3.
- Stage 3 expected on:
  - RAN node selecting CN node in A / Gb / Iu interface mode (RAN has not yet started work, awaiting SA2 input)
  - New (resp. old) CN node selecting old CN (resp. new) node
  - SGSN selecting MSC

## ***GERAN Work Items (1/2)***

### **All on-going (most to be completed by March /June 2002)**

- Evolution of transport in UTRAN and GERAN (BB of UTRAN Feature)
- GERAN/UTRAN interface evolution of lu-ps : impacted by TR on OVS, i.e. “optimised speech” (in progress)
- GERAN/UTRAN interface evolution of lu-cs
- Evolution of the transport for A interface: define a new A/Ater interface
- GERAN support for IP multimedia: header adaptation, RAB design, signalling, MS & BTS Conformance tests
- Alignment of 3G functional split and lu: GERAN user / control plane, lu-rg, voice over PS and CS concept, NB speech, MS & BTS Conformance tests
- GERAN enhancements for streaming services: SDU discard, use of ECSD
- Real Time QoS for packet services including VoIP (UTRAN): Handover PS
- Wideband telephony services: support in GERAN, MS + BTS Conformance test for AMR Wideband
- Location service (UMTS) : LCS interoperability aspects to GERAN, LCS in A/Gb mode, lu mode, MS + BTS Conformance test for LCS

## ***GERAN Work Items (2/2)***

### **Features or Building Blocks removed from the WP :**

- **Low chip rate TDD interworking with GERAN**
- **Gb over IP (GERAN improvements 1)**
- **Gb enhancements (Intra NACC Building block) (GERAN improvements 2)**
- **Delayed TBF (GERAN Improvements 4, Gb enhancements 2)**

## ***GERAN “New/updated” Work Items***

**All on-going (most to be completed by March /June 2002)**

- **Work Item for the "GERAN MS Conformance test for inter-system and intra-system Packet Data real time Handover"**
- **Update of GERAN LCS Work Item for A/Gb mode**
- **Update of GERAN LCS Work Item for lu mode**
- **Building Block WI GERAN user/control plane**

# *End-to-End QoS*

## **Work ongoing**

- Stage 2 in TS 23.207 already in version 5 (v.5.1.0)
- Main issues on Stage 2: try to reduce the number of options
- Potential reduction on the scope of End-to-end QoS
- Stage 3 work started by CN3 (TS 29.207), foreseen to be **completed by March 2002**
- Work with GERAN on Optimised Speech Transport under discussion (joint meeting S2/GERAN beginning of August)



## *Messaging Enhancements Rel-5*

- **MMS** stage 2 enhancements **behind schedule but still planned for December 2001**
  - main enhancements
    - MM7 VAS server interface
    - enhanced interworking issues
    - extended User Agent capabilities for MMS
    - support of network based mailbox model in MMSE
  - Part of Stage 3 might again be defined by WAP Forum
- **EMS** enhancements **on schedule for December 2001**
  - main enhancements
    - line or vector based image format under discussion
    - monophonic and polyphonic sound formats
    - more complex elements (forms, menus, session ID etc)
    - hyperlink IE
    - EMS delivery request

## ***Enhancement of Broadcast and Introduction of Multicast***

- **Service renamed Multimedia Broadcast/Multicast Service (MBMS)**
- **Stage 1 (22.146 v.2.0.0): presented at this meeting for approval.**
- **Stage 2: S2 present a WID at SA#13 on S2's work for this feature. Discussions at SA2 to **check whether it should be Rel-5 or Rel-6** (no firm decision).**
- **Security section is minimal but S3 expertise is required**
- **Charging section has basic requirements defined**

# ***RAN new Work Items***

- **WI "Beamforming" (RP-010711)  
[R1; for TSG-RAN #16]**
- **SI "Feasibility study considering  
deployment of UTRA in additional and  
diverse spectrum arrangement" (RP-  
010718)  
[R4, for TSG-RAN #17]**

# *Summary of Completion Dates*

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# Summary

- The two following slides provide a summary of the Foreseen Completion Dates, sorted by date
- Abbreviations used in next slides:
  - “UID” = Unique ID (Reference in the Work Plan)
  - “FCD” = Foreseen Completion Date
  - “/” = or (no clear estimation)
  - “+” = and (the feature can be split and the resulting BBs can be completed independently)
  - “several” = the feature consists in a lot of independent BBs with different completion dates
  - When the year is omitted: Dec = Dec 01, Mar = Mar 02, June = June 02
  - In **Red**: Features particularly relevant



# Foreseen Completion Dates (1/2)

| UID   | Title   | FCD        |
|-------|---|------------|
| 1517  | Global Text Telephony                                     | Completed  |
| 4     | Evolutions of the transport in the CN                     | Dec-01     |
| 1625  | Wideband Telephony Service - AMR                          | Dec-01     |
| 1800  | (U)SIM toolkit enhancements                               | Dec-01     |
| 2569  | Messaging enhancements Rel-5                              | Dec-01     |
| 2464  | MExE enhancements Rel-5                                   | Dec+June   |
| 2243  | Intra Domain Connection of RAN Nodes to Multiple CN Nodes | Mar-02     |
| 1536  | Location Services enhancements                            | Mar-02     |
| 1638  | CAMEL phase 4   | Mar-02     |
| 2476  | High Speed Downlink Packet Access                         | Mar-02     |
| 34001 | Extended Transparent End-to-End Packet Switched Streaming | Mar-02     |
| 1652  | Emergency call enhancements                               | Mar-02     |
| 1560  | UICC/(U)SIM enhancements and interworking                 | Mar-02     |
| 1365  | Support of Push Services                                  | Mar-02     |
| 2556  | End to End QoS for PS Domain (including IMS)              | Mar-02     |
| 2499  | Support of Presence Capability                            | Mar/June   |
| 1273  | Provisioning of IP-based multimedia services              | Mar*+later |
| 1571  | Security enhancements                                     | Mar+June   |

\* Except the **IMS Security, to be completed by June**

# Foreseen Completion Dates (2/2)

| <b>UID</b> | <b>Title</b>   | <b>FCD</b>  |
|------------|--|-------------|
| several    | GERAN issues   | Mar+June    |
| 2544       | Enhancement of Broadcast and Introduction of Multicast | No estimate |
| 1367       | VHE enhancements                                       | No info     |
| 1637       | OSA enhancements                                       | Mar-02      |
| 1142       | Charging and OAM&P                                     | Mar-02      |
| 2062       | Subscription Management                                | Dec-01      |
| 2520       | User Equipment Management                              | Mar-02      |
| 2507       | Display of Service Provider name on UE                 | No Prog     |
| 2527       | Emergency calls without UICC/SIM in netw. with IMS     | No Prog     |
| 2          | Evolutions of the transport in the UTRAN               | several     |
| 1216       | Improvements of Radio Interface                        | several     |
| 9          | RAN improvements                                       | several     |



# ***Conclusion***

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## *Conclusion*

- **Given the data provided in the slide “Foreseen Completion Dates (1/2)”, it is proposed to define the Completion Date of Release 5 as March 2002, with an exception for IMS Security (“stable” stage 3 to be approved in June).**
- **To achieve this, some discussions are encouraged to release the work load of some WGs by pushing out to Rel-6 some IMS aspects strictly speaking not required.**