

IMS (1/8)

Or “IP-based Multimedia Services”

- **Stage 1 in 22.228 already in v.5.**
 - Corrections on ISIM, access independence, identities, messaging and group management.
 - Change to 22.115 for charging (including Pre-paid)
- **Overall Stage 2 in 23.228 in v.5 since SA#13.**
 - Remaining Stage 2 issue solved for:
 - Charging (including on-line charging): TR 23.815 to be presented in v.2 at SA#15
 - Lot of corrections and clarifications, e.g. on QoS handling, IP v4/v6 interworking (still not solved), mapping PDP context(s) <-> media component(s), Local services, use of pre-Rel-5 USIM, SIP compression (mandatory).
- **Detailed Stage 2 and Stage 3: see next slides**

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Now provided for **approval** (formal change control)
from CN1 :

- Stage 2 TS 23.218v201 on call model (100 %)
- Stage 3 TS 24.228v202 on information flows (85%)
- Stage 3 TS 24.229v201 on protocol details (85%)
- Freezing of TS 23.218 is requested, but **NOT freezing TSs 24.228 and 24.229 now.**
- Performance characterisation of codecs : a TR on the issue still to be started: not critical

Security aspects (“Access Security for IMS”):

- **Stage 3** targeted for **June 2002** approval

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- Lawful interception. 33.108 (Handover Interface, Stage 3) for information at SA#15: Target completion date is **June** but does not yet cover multimedia aspects. Multimedia aspects to be clarified by the SA3-LI group.

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- **Interfaces stable:**
 - Interface at Dx (to Service Location Function)
 - Interface at Mr (to Media Resource Function Controller)
 - Interface at Mc, Mp based on existing CN4 H.248 specifications - no work required

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- **Aspects not stable (i)**
 - decisions still required in CN1 on compression (**late addition to Rel-5**)
 - stage 2 and IETF information still required on user authentication to allow stage 3 work to complete - also some work on key transport required (**late addition to Rel-5**)
 - stage 2 work on integrity protection still required to allow stage 3 to start. **SA3 must resolve this issue in April 2002 (late addition to Rel-5)**
 - stage 3 work on 33.210 not yet started in CN1

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- **Aspects not stable (ii)**

- **IMS to PS interworking: CN3 has decided to move the finalisation date to **March 2003** => **Move to Rel6** or stay in **Rel5 >>??****

 - Done for user plane (use of transcoder)
 - Location of interworking function for the control plane still under discussion in SA2.
 - Interworking between 3GPP profile of SIP and IETF SIP still under discussion at CN3
 - IP v4/v6 interworking not solved at S2

- **IMS to CS interworking: CN3 has decided to move the finalisation date to << CN pushed to Dec 2002 >>**June 2003** => **can it pull in to late add to Rel-5****

 - Work for TS 29.163 is completed but ITU-T SG11 part on SIP to BICC / ISUP interworking (moved from February 2002 to November 2002) remains the blocking point

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- **Interfaces not stable**

- churn in contents of IETF specifications has delayed editorial completion of SIP interfaces (late addition to Rel-5)
- Dx interface dependent on IETF deliverables (late addition to Rel-5)
- Sh work item just defined, regarded subset of Cx (late addition to Rel-5)
- Si work item being defined (may be late addition to Rel-5)
- Go and interface: see slide on end-to-end QoS (late addition to Rel-5)

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- Other aspects << not yet stable>>.
- To be confirmed at TSG#15 if planned for Rel-5 or Rel-6:
 - Header removal/compression in UTRAN and/or GERAN
 - IMS local services: Stage 2 just defined (CR 149 to 23.228), Stage 3 not started ==> move to Rel-6
 - CAMEL in IMS (23.278): see separate slide (late addition to Rel-5)

Emergency call enhancements

For PS and IMS: for **Rel-6** as decided at SA#14.

- For **Rel-5** the decision is to use the CS emergency call feature, and changes to do this is included in the IMS TSs (24.229) now for **approval**

Features with Unclear Status (Rel-5 or Rel-6?)

Presence

- Stage 1 already **completed**, still in Rel-5 for SA1
 - Stage 2 **on-going** normally: TR 23.841 presented to SA#15 for information (v.1.0.0)
 - Stage 3 and other aspects (security, charging, testing) **not started**, to be started in <<April 2002>> at N1
- =>TSG CN#15 expect stage 3 deliverables September 2002
- =>TSG SA#15 to confirm to which release it belongs (SA#14 decision was to check at SA#15, SA1 says it's for Rel5)
- Presence Release 6 WID by SA1:
 - maintenance (other WG's will have PS as a R6 item)
 - enhancements (e.g. security, charging, attributes etc.)

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Release 6 features



A GLOBAL INITIATIVE

“IMS Enhancements”

- **WID not created yet**
- **It will include the Rel-5 postponed items and/or the newly created ones.**
- **Moved from Rel-5:**
 - **Identification portability (was number portability) in IMS**
- **Newly created:**
 - **Radio optimisation impacts on PS domain architecture**

Emergency call enhancements

Rel-6

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

- SA2 work completion target moved from TSG T#16 to TSG#18
- Stage 3 (mostly by CN1?) must re-target its completion date << major impact on stage 3 – completion date unknown probably after TSG#18 >>

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

- Requirements covered by SA1 in 22.228
- Stage 3 work has started in CN1, but completion depends on the related IMS progress still under discussion in SA2.