Source: **T2 Secretary**

Title: **TSG-T2 Progress Report**

Agenda item: **5.2.1**

Document for: **Information**

Progress Report

TSG-T2 "Mobile Terminal Services and Capabilities"

1 Meetings held

T2 had one plenary meeting since TSG-T#9. The T2#11 meeting was held 27 November - 1 December 2000 in Shin Yokohama, Japan kindly hosted by Panasonic. More than 100 delegates attended the meeting.

SWG1 (MExE) had two meetings: One meeting was held 26-28th September, 2000 in Vuokatti, Finland hosted by Nokia. Another meeting was held 24-26th October, 2000 in Chicago, USA hosted by Motorola.

SWG3 (Messaging) had an MMS ad hoc meeting on 10-12 October 2000 in Sophia Antipolis, France hosted by ETSI.

2 T2 Organisation

T2 chairman:	Kevin HOLLEY (BT)
T2 vice-chairmen:	Peter NEUMANN (Siemens) Toshihiro SHIMIZU (Matsushita)
T2 secretary:	Friedhelm RODERMUND (ETSI MCC)
T2 SWG chairmen:	
SWG1 Mobile Execution Environment (MExE):	Mark CATALDO (Motorola)
SWG2 UE Capabilities and Interfaces:	Kazuya HASHIMOTO (NEC)
SWG3 Messaging:	Ian HARRIS (Vodafone - Airtouch)

The terms of office of the T2 chairman and vice-chairmen expires in March 2001. At the next T2 meeting a call for candidates for chairmen and vice-chairmen of T2 and SWG1, SWG2, SWG3 will be made. An election may be held at the T2 meeting in May 2001.

3 Results and Issues

T2 had completed the outstanding R99 issues at TSG-T#8. The current work is focussing on Rel 4 and on the maintenance of the older releases. Thinking about Rel 5 has started and for TSG-T#11 first WIC(s) can be expected.

Two R99, and 30 Rel 4 change requests are presented to TSG-T#10 for approval. A proposal for revised Terms of Reference for T2 is presented for approval. A draft version of the new TS "vObjects and Other Constructs for Use in Data Synchronisation" is presented for information. Six LSs were send to or copied to TSG-T.

Please find below a summary of the results of each sub working group (SWG) and a summary of other issues.

3.1 SWG1 Mobile Execution Environment

SWG1 Mobile Execution Environment has the responsibility for developing, approving and maintaining specifications for a terminal execution environment using wireless, fixed, and cordless access.

Work Item: MExE

T2 is happy to report that the work on MExE Rel 4 is completed. At this T meeting, 28 change requests for MExE Rel 4 are presented for approval. Only some minor issues are outstanding for March 2001. MExE Rel 4 includes the introduction of a third MExE classmark for a new small-footprint Java platform. Another enhancement are extensions of the existing MExE specifications to include SDR Forum proposal to support the downloading of core software. Support of the WAP UAProf user profile is included and further enhancements regarding MExE security have been achieved.

The MExE Rel 5 work item cover sheet (WIC) is almost complete. Major work is planned on the creation of a fourth MExE classmark for the ECMA "Common Language Infrastructure (CLI)" as proposed by Microsoft. Work is also planned on the VHE User Profile support.

Two additional SWG1 ad hoc meetings have been scheduled so far in 2001 (see meeting calendar for details) in addition to T2 meetings.

3.2 SWG2 UE Interfaces and Capabilities

SWG2 Terminal Interfaces is responsible for the development of specifications relating to terminal interfaces, terminal system aspects, terminal functionality allocation within subsystems, synchronisation of devices with internal and external datastores, development of AT commands for control of devices, terminal capability requirements, terminal regulatory aspects (except EMC and RF) and for multi-mode terminal aspects.

T2 had a debate on proprietary features at some of its recent meetings. Many operators expressed concerns about the incompatibilities which are caused by proprietary features of mobile manufacturers. No conclusion on how to solve the problem was reached. At its last meeting (T2#11), T2 did not receive any input on this issue and therefore the work on this issue has stopped for the time being.

TP-000245 is an LS to SA3, T, T3, CN1 cc SA, SA1, SA2 on UE functionality split. It is a discussion document on UE functionality split over physical devices and tries to further the debate on this issue.

T2 received an LS from CN4 on Codec Requirement to UMTS UEs. CN4 proposes that all UEs for Rel 4 shall support AMR-FR codec, and TSG-T and T2 are asked to endorse the requirement. T2 is asked to include these changes in its specifications. However, T2 decided not to have a Rel 4 version of TR 21.904 "UE Capabilities" and therefore this change cannot be inlcuded.

Work Item: Synchronisation

For Rel 5, T2 is currently investigation a smooth upgrade path from Rel 99 Sync like currently specified in TS 27.103 to "SyncML" compatibility.

Work Item: vObjects and other constructs for use in data synchronization

A new draft TS "vObjects and Other Constructs for Use in Data Synchronisation" is presented for information to T#10. T2 wants to raise awareness of the document and needs input from other groups. The specification is highlighting the types of data which need to be synchronised either locally or between UE and network application. T2 needs information from all groups on any data types required to be synchronised within the UE or between UE and Network and therefore proposes the document to be forwarded to SA. This is particularly relevant to VHE. There is some risk that this work cannot be completed within Rel 4.

Work Item: AT commands

Some recent work on AT commands relates to SIM functions. One CR on this issue is presented for approval to this TSG-T meeting.

No input has been received on a possible AT command for Bearer Modification without pre-notification.

Not much input has been received on the specification of AT commands for new services.

Work item: Alternatives to AT Commands

There were discussions at Oxford Workshop and follow-on but so far no substantial work in T2 has been done. This would be a possibility for Rel 5 but this depends on getting an agreed framework.

Work Item: Terminal Local Model

Some progress was made on the draft TS 23.227 "Terminal Local Model". This TS defines a reference model for the ME, and explains the interactions between the different peripherals (e.g. infrared, bluetooth, USIM, radio interface, MMI etc.). This work item is at risk for completion within the Rel 4 time frame. TSG-T is asked to note that companies need to provide resources to further this work.

Work Item: UE capabilities

One CR is presented for approval to TR21.904 UE Capabilities. No further work is planned beyond T#10. No Rel4 version as created and T2 decided to stop updating of the R99 version. TP-000247 is an LS to T1 cc RAN2, T on future plan for TR 21.904 which report on this issue.

3.3   SWG3 Messaging

SWG3 Messaging has the responsibility for defining UMTS-specific messaging applications to allow non-real time multimedia messaging, a Short Message Service, and Cell Broadcast Services.

Work Item: Multimedia Messaging Service (MMS)

Good progress has been achieved on the Rel 4 stage 2 for MMS. A huge baseline CR for Rel 4 is presented to this meeting for approval. This baseline document defines levels 1, 2 and 3 of the MMS description – the Multimedia Messaging framework including MMS service behaviour, the application protocol framework including abstract messages which are necessary for the MMS service provision as well as the technical realisation of these MMS service features. The specification has been updated to be less WAP-specific. IP and WAP implementations have been moved into the Annexes. Streaming was added. The service behaviour of MMS is under further elaboration. Work on charging issues in MMS has started also in cooperation with SA5. T2 is liaising with the WAP Forum's MMS group to ensure that there is convergence of work being done by the WAP forum.

One SWG3 MMS ad hoc meeting is scheduled (see meeting calendar for details) before the next T2 meeting.

Further refinements likely to be needed in Rel 5.

Work Item: Global Text Telephony (GTT)

No input on the terminal aspects of GTT was received at the last two T2 meetings. This work item is for Rel 5.

Work Item: Technical Enhancements and Improvements (TEI)

A change request to TS 23.038 is presented for approval which adds the data coding scheme value for the Icelandic language.

Work Item: Advanced Cell Broadcast

This work item was deleted at TSG-T/SA#9.

3.4   Other Issues

3.4.1   Possible SMS/EMS enhancements

During the last T2 plenary meeting, T2 has been approached by a UK-based company called Magic4, who would like to have some codepoints assigned to them in the standard for SMS to enable a world-wide standard for "thin client" based content delivery to mobiles. An extract of their presentation slides can be found in the T2 presentation to TSG-T (TP-000192). Operators would like a single standard to be able to implement what is contained in Magic4 presentation. One possible avenue would be for the Magic4 specification to become a 3GPP specification (with modification as required by 3GPP members). There are also IPR issues to be considered.

3.4.2   External Interfaces (USB, IrDA, Bluetooth)

Furthermore, presentations have been received on external interfaces from the USB Forum, IrDA, and Bluetooth. Key slides are presented in TP-000192. The issues on external interfaces for T2 are the need for common high level protocols interfacing to specific low level interface, the need for overall system security thinking in development of external interfaces outside 3GPP, and the questions of if we should perpetuate the multiple-serial-link model or move to a completely IP-based model for UE architecture.

3.4.3   Terminal Capabilities

T2 had some discussion on terminal capabilities. Operators are concerned that information about Terminal Capabilities is not available in the application layer of the network. A Liaison Statement on this issue to CN, SA, and T (TP-000198) was prepared to raise awareness and seek a solution. A workshop across WGs might be a possible way to elaborate on this issue.

3.4.4   External Fora

External Fora are being set up which have some overlap with T2. The latest examples are the MExE Forum (http://www.mexeforum.org) and the MMS Forum. T2 wants to encourage technical work to be done within T2 and not in external for a. Some other activities (e.g. Marketing) are more appropriate to external for a. T2 will seek PCG approval for Liaison Partnerships with appropriate fora, to enable close working.

3.4.5   Application Testing

T2 has currently some discussion on Conformance Test Requirements for Application Layers. Some work in this area might have to be started. An LS to T1 cc SA1, SA2, SA4, T was produced on this issue in TP-000197.

4 Status of deliverables under T2 responsibility

Spec	Title	Current Version
03.38	Alphabets and Language Specific Information for GSM	4.0.1
03.38	Alphabets and Language Specific Information for GSM	5.6.1
03.38	Alphabets and Language Specific Information for GSM	6.0.1
03.38	Alphabets and Language Specific Information for GSM	7.2.0
03.40	Technical Realization of the Short Message Service (SMS) Point-to-poin (PP)	3.7.0
03.40	Technical Realization of the Short Message Service (SMS) Point-to-poin (PP)	4.d.0
03.40	Technical Realization of the Short Message Service (SMS) Point-to-poin (PP)	5.8.1
03.40	Technical Realization of the Short Message Service (SMS) Point-to-poin (PP)	6.1.0
03.40	Technical Realization of the Short Message Service (SMS) Point-to-poin (PP)	7.4.0
03.41	Technical Realization of Short Message Service Cell Broadcast (SMSCB)	3.4.0
03.41	Technical Realization of Short Message Service Cell Broadcast (SMSCB)	4.b.0
03.41	Technical Realization of Short Message Service Cell Broadcast (SMSCB)	5.9.1
03.41	Technical Realization of Short Message Service Cell Broadcast (SMSCB)	6.1.0
03.41	Technical Realization of Short Message Service Cell Broadcast (SMSCB)	7.4.0
03.42	SMS Compression	5.2.0
03.42	SMS Compression	6.0.0
03.42	SMS Compression	7.1.1
03.43	Support of Videotex	3.0.1
03.43	Support of Videotex	4.1.2
03.43	Support of Videotex	5.0.0
03.43	Support of Videotex	6.0.0
03.43	Support of Videotex	7.0.0
03.44	Support of Teletex in a GSM Public Land Mobile Network (PLMN)	3.0.1
03.44	Support of Teletex in a GSM Public Land Mobile Network (PLMN)	4.0.1
03.44	Support of Teletex in a GSM Public Land Mobile Network (PLMN)	5.0.0
03.44	Support of Teletex in a GSM Public Land Mobile Network (PLMN)	6.0.0
03.44	Support of Teletex in a GSM Public Land Mobile Network (PLMN)	7.0.0
03.47	Example Protocol Stacks for Interconnecting Service Centre(s) (SC) and Mobile Services Switching Centre(s) (MSC)	4.4.0
03.47	Example Protocol Stacks for Interconnecting Service Centre(s) (SC) and Mobile Services Switching Centre(s) (MSC)	5.0.0
03.47	Example Protocol Stacks for Interconnecting Service Centre(s) (SC) and Mobile Services Switching Centre(s) (MSC)	6.0.0
03.47	Example Protocol Stacks for Interconnecting Service Centre(s) (SC) and Mobile Services Switching Centre(s) (MSC)	7.0.0
03.49	Example protocol stacks for interconnecting Cell Broadcast Centre (CBC) and Base Station Controler (BSC)	4.6.0
03.49	Example protocol stacks for interconnecting Cell Broadcast Centre (CBC) and Base Station Controler (BSC)	5.7.0
03.49	Example protocol stacks for interconnecting Cell Broadcast Centre (CBC) and Base Station Controler (BSC)	6.1.0
03.49	Example protocol stacks for interconnecting Cell Broadcast Centre (CBC) and Base Station Controler (BSC)	7.0.0
03.57	Mobile Station Application Execution Environment (MExE); Functional description; Stage 2	7.2.0
07.05	Use of Data Terminal Equipment - Data Circuit Terminating Equipment (DTE-DCE) Interface for Short Message Services (SMS) and Cell Broadcast Services (CBS)	4.8.1
07.05	Use of Data Terminal Equipment - Data Circuit Terminating Equipment (DTE-DCE) Interface for Short Message Services (SMS) and Cell Broadcast Services (CBS)	5.5.0
07.05	Use of Data Terminal Equipment - Data Circuit Terminating Equipment (DTE-DCE) Interface for Short Message Services (SMS) and Cell Broadcast Services (CBS)	6.0.0
07.05	Use of Data Terminal Equipment - Data Circuit Terminating Equipment (DTE-DCE) Interface for Short Message Services (SMS) and Cell Broadcast Services (CBS)	7.0.1
07.07	AT Command set for GSM Mobile Equipment (ME)	4.4.1
07.07	AT Command set for GSM Mobile Equipment (ME)	5.9.1

07.07	AT Command set for GSM Mobile Equipment (ME)	6.4.0
07.07	AT Command set for GSM Mobile Equipment (ME)	7.5.0
07.08	GSM Application Programming Interface	5.2.1
07.10	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	6.4.0
07.10	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	7.1.0
21.810	Report on multi-mode UE issues; ongoing work and identified additional work	3.0.0
21.904	UE Capability Requirements (UCR)	3.2.0
21.910	Multi-mode UE issues; categories, principles and procedures	3.0.0
22.945	Study of provision of fax service in GSM and UMTS	3.0.0
23.038	Alphabets & Language	3.3.0
23.038	Alphabets & Language	4.0.0
23.039	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	3.2.0
23.040	Technical realisation of Short Message Service	3.5.0
23.040	Technical realisation of Short Message Service	4.1.0
23.041	Technical Realization of Cell Broadcast Service	3.3.0
23.042	Compression algorithm for SMS	3.1.0
23.057	Mobile Station Application Execution Environment (MExE)	3.3.0
23.140	Multimedia Messaging Service (MMS)	3.0.1
23.140	Multimedia Messaging Service (MMS)	4.0.0
23.227	Terminal local model	0.1.0
27.005	Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	3.1.0
27.007	AT command set for 3G User Equipment (UE)	3.6.0
27.007	AT command set for 3G User Equipment (UE)	4.0.0
27.010	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol User Equipment (UE)	3.3.0
27.103	Wide Area Network Synchronisation	3.1.0
27.226	Global Text telephony;Terminal aspects	none
27.901	Report on Terminal Interfaces - An Overview	3.0.0
27.903	Discussion of Synchronisation Standards	3.0.0
34.907	Report on electrical safety requirements and regulations	3.0.0
34.925	Specific Absorption Rate (SAR) requirements and regulations in different regions	3.0.0
tbd	TS "vObjects and Other Constructs for Use in Data Synchronisation"	0.1.0

5 TSG-T2 Meeting Calendar

Meeting	Date	Location	Host
T2 SWG3 MMS ad hoc #6	8 - 12 Jan 2001	Düsseldorf, Germany	Mannesmann Mobilfunk
T2#12	12 - 16 Feb 2001	Beverly Hills, US	North American Friends of the 3GPP
T2 SWG1 MExE	27-29 Mar 2001	Whistler, Canada	Microsoft
T2#13	14 – 18 May 2001	Korea	Samsung
T2 SWG1 MExE	24-26 July 2001	Greece (?)	University of Athens department of Informatic (?)
T2#14	3 - 7 Sep 2001	UK (?)	BT, … (?)
T2 SWG1 MExE	9-11 October 2001	no host	no host
T2#15	12 – 16 Nov 2001	no host	no host

6 List of Tdocs submitted to TSG-T#10

Tdoc	Agenda item	Title	Source
TP-000191	5.2.1	T2 progress report	T2 secretary
TP-000192	5.2.1	T2 progress report (presentation slides)	T2 chairman
TP-000193	5.2.3	MExE Change Requests **for approval**	T2
TP-000194	5.2.3	Terminal Interfaces and Capabilities Change Requests **for approval**	T2
TP-000195	5.2.3	Messaging Change Requests **for approval**	T2
TP-000196	5.2.4	TS "vObjects and Other Constructs for Use in Data Synchronisation" Version 0.1.0 **for information**	T2
TP-000197	4.2	LS to T1 cc SA1, SA2, SA4, T: Conformance Test Requirements for Application Layers	T2 (T2-000772)
TP-000198	4.2	LS to CN, SA, T on Terminal capabilities	T2 (T2-000805)
TP-000243	4.2	LS to T3 cc T, S3 on USAT local link mechanism	T2 (T2-000689)
TP-000244	4.2	LS to T3 cc T, SA1: Introduction of features from the CPHS for 3G Rel-4	T2 (T2-000770)
TP-000245	4.2	LS to SA3, T, T3, CN1 cc SA, SA1, SA2 on UE functionality split	T2 (T2-000793)
TP-000247	4.2	LS to T1 cc RAN2, T on future plan for TR 21.904	T2
TP-000248	5.2.3	Proposed revised Terms of Reference for T2 **for approval**	T2 (T2-000797)

7 Change Requests submitted to TSG-T#10

7.1 MExE Change Requests

Change requests related to MExE can be found in **TP-000193**.

Spec	CR	Rev	Rel	Subject	Cat	Vers-Curr	Vers-New	T2 Tdoc	Workitem
23.057	013		R00	Support of blanket user permission	C	3.3.0	4.0.0	T2-000631	MEXE-ENHANC
23.057	014		R00	Update of WAP version MExE release 4 refers to	C	3.3.0	4.0.0	T2-000632	MEXE-ENHANC
23.057	015		R00	Application version number	C	3.3.0	4.0.0	T2-000633	MEXE-ENHANC
23.057	016		R00	Capability negotiation for browsing	C	3.3.0	4.0.0	T2-000634	MEXE-ENHANC
23.057	017		R00	Addition of the definitions of MExE API and MExE server	D	3.3.0	4.0.0	T2-000637	MEXE-ENHANC
23.057	018		R00	Generic MExE Classmark 1 aspects	D	3.3.0	4.0.0	T2-000639	MEXE-ENHANC
23.057	019		R00	Core software download support	C	3.3.0	4.0.0	T2-000640	MEXE-ENHANC
23.057	020		R00	Application connection information	C	3.3.0	4.0.0	T2-000641	MEXE-ENHANC
23.057	021		R00	Support of journalling	C	3.3.0	4.0.0	T2-000642	MEXE-ENHANC
23.057	022		R00	Support of the user profile	C	3.3.0	4.0.0	T2-000643	MEXE-ENHANC
23.057	023		R00	Capability Negotiation	F	3.3.0	4.0.0	T2-000644	MEXE-ENHANC
23.057	024		R00	Datagram recipient addressing	C	3.3.0	4.0.0	T2-000796	MEXE-ENHANC
23.057	025		R00	QoS support in MExE devices	C	3.3.0	4.0.0	T2-000646	MEXE-ENHANC
23.057	026		R00	Core software download	B	3.3.0	4.0.0	T2-000647	MEXE-ENHANC
23.057	027		R00	RDF and XML References	C	3.3.0	4.0.0	T2-000648	MEXE-ENHANC
23.057	028		R00	Support of VHE	C	3.3.0	4.0.0	T2-000649	MEXE-ENHANC
23.057	029		R00	High level architecture	C	3.3.0	4.0.0	T2-000794	MEXE-ENHANC

23.057	030		R00	Personal Java Reference	C	3.3.0	4.0.0	T2-000666	MEXE-ENHANC
23.057	031		R00	Deletion of unnecessary text	C	3.3.0	4.0.0	T2-000740	MEXE-ENHANC
23.057	032		R00	User Profile CC/PP tags	C	3.3.0	4.0.0	T2-000744	MEXE-ENHANC
23.057	033		R00	Service management	C	3.3.0	4.0.0	T2-000745	MEXE-ENHANC
23.057	034		R00	Classmark 3 non-security and conformance	B	3.3.0	4.0.0	T2-000746	MEXE-ENHANC
23.057	035		R00	Classmark 3 security and conformance	B	3.3.0	4.0.0	T2-000747	MEXE-ENHANC
23.057	036		R00	Update of HTTP RFC Reference	C	3.3.0	4.0.0	T2-000748	MEXE-ENHANC
23.057	037		R00	Table of UAProf tags	C	3.3.0	4.0.0	T2-000752	MEXE-ENHANC
23.057	038		R00	Added Annex about MExE Executable Life Cycle	C	3.3.0	4.0.0	T2-000753	MEXE-ENHANC
23.057	039		R00	Update to security section for R4	C	3.3.0	4.0.0	T2-000754	MEXE-SEC
23.057	040		R00	Conformance Table	B	3.3.0	4.0.0	T2-000755	MEXE-ENHANC

7.2 Terminal Interfaces Change Requests

Change requests related to Terminal Interfaces can be found in **TP-000194**.

Spec	CR	Rev	Rel	Subject	Cat	Vers-Curr	Vers-New	T2 Tdoc	Workitem
21.904	008		R99	Reflection of the decision to stop work on the TR after December 2000, and miscellaneous editorial corrections	F	3.2.0	3.3.0	T2-000678	UCR
27.007	049		R99	Incorporation of UICC/USIM references	F	3.6.0	3.7.0	T2-000803	TEI

7.3 Messaging Change Requests

Change requests related to Messaging can be found in **TP-000195**.

Spec	CR	Rev	Rel	Subject	Cat	Vers-Curr	Vers-New	T2 Tdoc	Workitem
23.038	005		R00	Data coding scheme value for the Icelandic language	B	4.0.0	4.1.0	T2-000726	TEI
23.140	002		R00	High-level description of MMS	B	4.0.0	4.1.0	T2-000791	MMS

8 Liaison Statements sent from T2#11

The following LSs have been sent from T2#11:

TDOC	Subject
T2-000612	LS to SA5, GSMA on charging / billing in Multimedia Messaging Service (MMS)
T2-000689	LS to T3 cc T, S3 on USAT local link mechanism
T2-000738	LS to S3: MExE group's comments to "MExE security issues"
T2-000770	LS to T3 cc T, SA1: Introduction of features from the CPHS for 3G Rel-4
T2-000772	LS to T1 cc SA1, SA2, SA4, T: Conformance Test Requirements for Application Layers
T2-000773	LS to SA1. MMS stage 1
T2-000777	LS to SA4. MMS Media Codecs/Formats
T2-000779	LS to SA4. File Format for MMS
T2-000780	LS to SA1 cc CN2, SA5: Support for prepaid in MMS
T2-000786	LS to WAP. Support for prepaid services in MMS

T2-000793	LS to SA3, T, T3, CN1 cc SA, SA1, SA2 on UE functionality split
T2-000797	LS to T1 cc RAN2, T on FUTURE PLAN FOR TR21.904
T2-000798	LS reply to the SyncML initiative's responses to T2's Questions Concerning SyncML Technology
T2-000799	LS to WAP WAG Sync cc SyncML initiative requesting 'the Matrix'
T2-000800	LS to WAP Forum cc T3 on Standardised Methods of Identifying 'Bookmarks'
T2-000801	LS to IrDA cc T3 on Potential Use of IrMC's vBookmark'
T2-000804	LS to S2, T3, N1, S3 on IMS Storage USIM
T2-000805	LS to CN, SA, T on Terminal capabilities

Additionally, several LSs have been sent from the SWG1 and SWG3 ad hocs after T2 e-approval.

9 Decisions requested from TSG-T#10

T2 kindly requests the following decisions from TSG-T#10:

− Approval of "MExE" CRs in **TP-000193**

− Approval of "Terminal Interfaces and Capabilities" CRs in **TP-000194**

− Approval of "Messaging" CRs in **TP-000195**

− Approval of proposed revised Terms of Reference for T2 in **TP-000248**

− Forward the draft TS "vObjects and Other Constructs for Use in Data Synchronisation" to TSG-SA to make 3GPP aware of this document and ask for comments.