

Title **WG 2 Meeting Report**

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Document for:

Decision	X
Discussion	X
Information	

Late submission	
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A Meeting Results

A.1 List of ongoing Deliverables

The list below contains the status of all work items before and after the meeting.

- White-background cells: contain general info. Corrections possible - use pink background for modified cells.
- Green-background cells: contain the data in WPM at the time this template is issued or automatically-generated data. Not to be modified.
- Blue-background cells: place holder to be used to update the status of all the WIs progressed or modified during the meeting.
- Newly approved WIs: use new line in pink background.

Un. ID	Title	Level	Class	Type	Reference	Release	ETSI Pub Number	Rapporteur	Meeting input			Meeting output				
									Pre-WG status	WG compl target date / status	Plan Shift since 07/11/2008	Output Version in TD n.	Output version	Output Status	new WG complet. date, if postponed	
0	Rel-3	1														
0	Rel-3 Overall Description	1														
28410	NGN Functional Architecture	2	R	ES	02067	R3	282 001	bruno.chatras@orange-ftgroup.com	Draft available as V.3.2.0 since 2008-11-14	30/03/2009	Unchanged	19TTD276	3.2.1			
28852	Release 3 definition	2	D	TR	02007	R3		AGamelas@PTINOVACAO.PT	ToC & Scope as V.? since 2008-07-07	30/09/2009	Unchanged	-	-			
28853	Service and Capability Requirements	2	R	TS	01061	R3	181 005	Gianluca.Gritella@TelecomItalia.it	Start of work as V.3.1.0 since 2008-07-04	10/06/2009	Unchanged	19TTD121	3.1.2	Stable draft		
0	IP TV Rel-3	1														
28196	Service Layer Requirements to integrate NGN services and IPTV	2	R	TS	01059	R3	181 016	hexiaoyan@huawei.com	Draft available as V.3.1.3 since 2008-11-06	28/02/2009	Postponed 5 month(s)	19TTD220	3.2.2	Stable draft		

19rTD012r2

ETSI TISPAN#19 Ter
Sophia Antipolis, 19 - 23 January 2009

Un. ID	Title	Level	Class	Type	Reference	Release	ETSI Pub Number	Rapporteur	Meeting input	Meeting output
28398	IPTV functions supported by the IMS	2	R	TS	02070	R3	182 027	mischa.schmidt@nw.neclab.eu	Draft available as V.3.1.0 since 2008-11-14	19rTD212 3.1.3 Postponed 6 month(s)
28854	IPTV Architecture: Dedicated subsystem for IPTV functions	2	R	TS	02074	R3	182 028	Andrey.Kisel@alcatel-lucent.com	Draft available as V.3.0.2 since 2008-11-06	19rTD216 3.1.2 Unchanged
28878	Peer-to-peer for content delivery for IPTV services: Analysis of mechanisms and NGN impacts	2	D	TR	02075	R3	182 010	oskar.vandeventer@tno.nl	Draft available as V.0.0.3 since 2008-11-14	19rTD087 0.0.5 Postponed 9 month(s)
	Content Delivery Network (CDN) architecture – interconnection with TISPAN IPTV architectures	2	D	TS	02076	R3		Mauro.Cabutto@telecomitalia.it		
0	Resource and Admission Control Subsystem (RACS) Rel-3	1								
28616	RACS Functional Architecture	2	R	ES	02072	R3	282 003	AGamelas@PTINOVACAO.PT	Draft available as V.3.2.0 since 2008-11-13	19rTD123 3.2.2 Unchanged
0	Network Attachment Sub-System (NASS) Rel-3	1								
28411	NASS Functional Architecture	2	R	ES	02068	R3	282 004	fbrockne@cisco.com	Draft available as V.3.2.0 since 2008-11-14	- - Unchanged
0	Mobility	1								
28413	Mobility Control Impacts	2	D	TR	02069	R3	182 026	tena@huawei.com	Draft available as V.0.1.2 since 2008-05-30	19rTD117 0.1.6 Postponed 3 month(s)
0	Rel-2	1								
0	Rel-2 Overall Description	1								
29095	Services and Capabilities Requirements	2	R	TS	01062	R2	181 005	P.Kotar@alcatel-lucent.com	NEW WI as V.2.1.0 since 2008-09-26	19rTD279 2.4.3 New
0	IP Television (IPTV) Rel-2	1								
28614	IPTV functions supported by the IMS	2	R	TS	02071	R2	182 027	mischa.schmidt@nw.neclab.eu	Draft available as V.2.2.0 since 2008-11-14	- - Postponed 7 month(s)

19tTD012r2

ETSI TISPAN#19 Ter
Sophia Antipolis, 19 - 23 January 2009

Un. ID	Title	Level	Class	Type	Reference	Release	ETSI Pub Number	Rapporteur	Meeting input	Meeting output
0	Rel-1 Overall NGN Stage 1	1							14	
28618	Services and Capabilities Requirements	1							Draft available as V.1.1.2 since 2008-07-07	
		2	R	TS	01060	R1	181 005	P.Kotar@alcatel-lucent.com	28/02/2009	1.1.3
									Postponed 8 month(s)	Stable draft
									19tTD278	

A.2 List of WG CRs

A.2.1 Agreed CRs

The following tables list the new WG approved CRs during TISPAN 19ter meeting, forming part of the input to the next plenary meeting.

A.2.1.1 WI 1059 – TS 181 016 release 3

CR n.	TD n.	Cat.	Draft ver.	Title	WG agr.	TB app.
053	19tTD204r3	C	3.2.1	Linking Presence Information, IPTV channels, content and personalized EPG services	19ter	
054	19tTD217r3	B	3.2.1	Channel Change Clarifications	19ter	

A.2.1.2 WI 1060 – TS 181 005 release 1

CR n.	TD n.	Cat.	Draft ver.	Title	WG agr.	TB app.
002	19tTD067r1	F	1.1.2	Common IMS references	19ter	

A.2.1.3 WI 1061 – TS 181 005 release 3

CR n.	TD n.	Cat.	Draft ver.	Title	WG agr.	TB app.
004	19tTD051r1	A	3.1.1	Corrections and editorial modifications	19ter	
005	19tTD052r1	B	3.1.1	Reference to IPTV specifications	19ter	
006	19tTD059r1	B	3.1.1	QoS requirements revision	19ter	
007	19tTD070r1	A	3.1.1	Common IMS reference for Annexes A and B	19ter	
008	19tTD053r2	B	3.1.1	Service requirements for PUC	19ter	

A.2.1.4 WI 1062 – TS 181 005 release 2

CR n.	TD n.	Cat.	Draft ver.	Title	WG agr.	TB app.
004	19tTD050r1	F	2.4.2	Corrections and editorial modifications	19ter	
005	19tTD069r1	F	2.4.2	Common IMS reference for Annexes A and B	19ter	

A.2.1.5 WI 2067 – TS 282 001 release 3

CR n.	TD n.	Cat.	Draft ver.	Title	WG agr.	TB app.
004	19tTD191r2	B	3.2.0	Clarification of BTF behaviour for policy enforcement	19ter	

A.2.1.6 WI 2068 – TS 282 004 release 3

None

A.2.1.7 WI 2070 – TS 182 027 release 3

CR n.	TD n.	Cat.	Draft ver.	Title	WG agr.	TB app.
085	19tTD197r1	D	3.1.2	Editor's note on relationship between Xc and BC tasks	19ter	
086	19tTD078r3	C	3.1.2	Clarification of UGC Creation Procedure	19ter	
087	19tTD079r2	C	3.1.2	Clarification of UGC Watching Procedure	19ter	
088	19tTD080r4	B	3.1.2	Procedure for Personal Service Composition	19ter	
089	19tTD081r2	C	3.1.2	Synchronization of Shared Content	19ter	
090	19tTD082r2	B	3.1.2	Synchronization Procedures	19ter	
091	19tTD147r1	C	3.1.2	Playlist parameters	19ter	
092	19tTD202r2	D	3.1.2	Cleanup of IPTV Bookmark Terminology	19ter	
093	19tTD149r3	B	3.1.2	Shared Service Control procedure	19ter	
094	19tTD183r2	F	3.1.2	Modification on procedures for shared content	19ter	
095	19tTD101r1	F	3.1.2	Modifications to Flows and Assumptions in Session Transfer	19ter	
096	19tTD107r2	B	3.1.2	Signalling Flows for IPTV Favourites procedures	19ter	
097	19tTD185r3	B	3.1.2	Reuse Media Channel for CoD Services	19ter	
098	19tTD076r3	B	3.1.2	Service Commands for Shared Room Procedure	19ter	

A.2.1.8 WI 2071 – TS 182 027 release 2

None

A.2.1.9 WI 2072 – TS 282 003 release 3

CR n.	TD n.	Cat.	Draft ver.	Title	WG agr.	TB app.
025	19tTD190r3	B	3.2.1	Clarification of BTF – RCEF interaction/BTF behaviour for policy enforcement	19ter	
026	19tTD055r2	D	3.2.1	Editorial enhancement to the first two sub-clauses of x-RACF	19ter	
027	19tTD056r3	B	3.2.1	Applicability of sub-clauses 6.2.2.x to C-RACF	19ter	
028	19tTD057r2	B	3.2.1	Applicability of further sub-clauses 6.2.y to C-RACF	19ter	
029	19tTD122r2	B	3.2.1	Admission Control Process for C-RACF	19ter	
030	19tTD058r2	B	3.2.1	Reference points associated with C-RACF	19ter	
031	19tTD068r2	F	3.2.1	Clarification on Rr features	19ter	
032	19tTD193r3	B	3.2.1	RACS CPN interaction requirements	19ter	
033	19tTD194r4	B	3.2.1	RACS CPN interaction, network deployment scenarios	19ter	

A.2.1.10 WI 2074 – TS 182 028 release 3

CR n.	TD n.	Cat.	Draft ver.	Title	WG agr.	TB app.
014	19tTD083r1	B	3.1.1	Synchronization Procedures	19ter	
015	19tTD176r1	C	3.1.1	Functional architecture	19ter	
016	19tTD177r1	C	3.1.1	R3 tasks for MCF & MDF	19ter	
017	19tTD219r1	F	3.1.1	Remote control of NGN integrated IPTV services from mobile or other NGN UE	19ter	
018	18tTD218r2	F	3.1.1	Fixed mobile service continuation	19ter	

A.2.2 Draft CRs

List of Draft CRs, WG agreed at TISPAN19ter, but no maintenance WI provided yet.

None

A.3 Liaison Statements

A.3.1 Incoming

TD number	From	Subject/Title	Action/comment
19tTD037	DVB	LS about the publication of a DVB bluebook on QoS	Outgoing liaison 19tTD263r1
19tTD039r1	STQ	Guidance on objectives for Quality related parameters at VoIP interconnection points	None
19tTD040	STQ	IP/SDP based remote control of jitter buffer, echo canceller & other speech processing devices	Handled by WG3
19tTD044	MSF	Re-Proposed Collaboration for IPTV Plugtest	Handled by WG3 Outgoing liaison 19tTD261r1
19tTD244	DVB	Response to Liaison Statement on peer to peer	Outgoing liaison 19tTD259r2
19tTD256	DVB	Response to Liaison Statement on IPTV requirements	The feedback will be provided by DVB by the next meeting

A.3.2 Outgoing

TD number	To	Cc	Subject/Title	Action/comment
19tTD259r2	DVB		Liaison from TISPAN to DVB – Concerning peer-to-peer content delivery	Answer to incoming liaison 19tTD244 Fast approval requested
19tTD261r1	MSF		Re-Proposed Collaboration for IPTV Plugtest	Answer to incoming liaison 19tTD044 Handled by WG3
19tTD263r1	DVB		Response to DVB IPI on the publication of a DVB bluebook on QoS	Answer to incoming liaison 19tTD037 Handled by WG5

A.4 Working Group Decisions

A.4.1 New Work Items

TD number	Type	Title	Supporting companies
19tTD146r6	TS	Content Delivery Network (CDN) architecture – Interconnection with TISPAN IPTV architectures	France Telecom, Telecom Italia, Huawei, ZTE, Thomson, TNO, KPN, Alcatel-Lucent, NEC

A.4.2 Closed Work Items

None

A.4.3 Work Items WG agreed

None

A.4.4 Other

There was a proposal to have Gianluca Gritella has Co-chairman. This proposal has been WG agreed by acclamation.

No activities on peer to peer (WI 2075 TR 182 010) during TISPAN 20WG meeting (23-25 February 2009)

No Activities related to Mobility WI (2069) handled during the next TISPAN 20WG meeting (23-25 February 2009)

RACS stage 2 and stage 3 will be handled during TISAPN 20WG with 3 virtual conference calls lunch time

- 13:00 – 15:00 Monday (stage 2 and 3);
- 13:00 – 15:00 Tuesday (stage 3)
- 13:00 – 15:00 Wednesday (stage 2)

A.5 Working Group Actions

Number	Action	Assigned to	Due by	Status
17W-WG2-AP02	MI 2054 Gq'/Rx: WG 2 noted that there was lack of progress in this work at SA2. This is causing concern to some members of the working group, and the TISPAN chairman is asked to clarify the situation openly and to report any progress back to the WG.	TISPAN chair	20 Plenary	To be determined by SA2#71
17W-WG2-AP05	A Liaison to the WiMAX Forum was suggested to inform about the works TISPAN is performing on mobility and to inquire about the best way of cooperation.	WG 2	20 Plenary	
A-17-03	Service requirement WG should come up with stage 1 WI corresponding to WG2 WID - NASS for Release 3 contained in 17PTD093	WG2		To be defined by close of R3
A-17-05	Service requirement group is strongly encouraged to correct R2 IPTV TS 181 016 stage 1 document to reflect what was not implemented in stage 2 and 3 specifications. This will allow a consistent set of R2 IPTV specifications	WG2	20 Plenary	
18b-WG2-AP04	Liaison from ITU-T on newly consented recommendations: 18bTD152	WG 2	20 WG	Later reply
A-19-07	Take into account regulatory requirements as described in 19PTD092 into the Release 3 definition and Service and capability requirements	WG 2	Release 3 definition	Ongoing
19b-WG2-AP01	Find a possible work around to show on the ETSI portal the WIs 1xxx (stage 1) even if the WG1 does not exist anymore and they are in charge to WG2	ETSI secretariat	20 Plenary	In progress
19b-WG2-AP03	Potential outgoing liaison to new TC MCD on 3 rd Party Content	WG Vice chair	19 ter	Done by contribution not by LS
19t-WG2-AP01	Check off line if the release 1 specifications relevant for release 2 with no changes are re-published as V2.x.x or not	WG management and ETSI secretariat	20 Plenary	
19t-WG2-AP02	Start an official e-mail Thread on IPTV on Naming Addressing Resolution (NAR). Thread number 094 (announced on WG2, 3, 4 and 7)	WG Vice chair G. Engström	26 th Jan – 17 th Feb	
19t-WG2-AP03	Start an official e-mail Thread CPN-RACS. Thread number 095 (announced on WG2 - 5)	WG Vice chair G. Gritella	26 th Jan – 17 th Feb	
19t-WG2-AP04	Start an official e-mail Thread IPTV service state detection. Thread number 096	WG chair R. Brennan	26 th Jan – 17 th Feb	
19t-WG2-AP05	Review the DVB document on QoS (19tTD263r1)	WG2 - 5	20 WG	
19t-WG2-AP06	Stage 1 WIs should be reviewed by 20WG in order to be WG agreed	WG2	20 WG	
19t-WG2-AP07	Coordinate with WG8 on management aspects for IPTV and determine further actions	WG2 management	20 WG	

A.5.1 Draft CRs from previous meetings

List of Draft CRs, WG agreed, but no maintenance WI provided. Those shall be considered as ongoing actions.

Spec. number	Rel.	TD number	Draft CR num.	Title of the CR	WG approved
282 003	2	18bTD112r1	D001	ES 282 003 v2.0.0 - Proposal of text alignment in 6.4.2.2 of RACS R2	18bis
282 004	1	18bTD225r2	D001	Correction to PPP attach procedure example	18bis

A.6 Documents NOT Handled

The following documents were not considered during the meeting. They will be reopened at the next meeting.

TD number	Source	Title
19tTD178	Slovak Telekom	Procedures for UGC
19tTD179	Slovak Telekom	Metadata update

A.7 STF requests

None

A.8 Future meeting plan

Date	Number	Location	Notes
23-25 February 2009	20WG	Sophia Antipolis	
26-27 February 2009	20Plen	Sophia Antipolis	
16-20 March 2009	20bis	Sophia Antipolis	
08-10 June 2009	21WG	Sophia Antipolis	
11-12 June 2009	21Plen	Sophia Antipolis	
17-21 August 2009	21bis	Sophia Antipolis	
28-30 September 2009	22WG	Sophia Antipolis	
01-02 October 2009	22Plen	Sophia Antipolis	
02-06 November 2009	22bis	Sophia Antipolis	
14-16 December 2009	23W	Sophia Antipolis	
17-18 December 2009	23Plen	Sophia Antipolis	

B Detailed Minutes

B.1 Opening session

This document is the official report of the TISPAN WG 2 sessions at the TISPAN 19ter meeting in Sophia Antipolis. The report is a compilation of the various sessions on technical discussions and projects.

B.2 IPR call

TD 003 "Call for IPR" was made. No IPRs were claimed at this time.

B.3 Agenda

The agenda in 19tTD005r2 was approved.

B.4 Liaisons

B.4.1 Incoming

- 19tTD037** **LS about the publication of a DVB bluebook on QoS** **DVB**
Liaison to WG2, 3 and 5. Probably WG3 and 5 have to lead the works to create a response
The QoS topic seems to be related to the QoS in home and so will be discussed jointly with the WG5.
- 19tTD039** **Guidance on objectives for Quality related parameters** **STQ**
R1
Presentation of an STQ approved TR.
No questions or comments.
- 19tTD040** **SIP/SDP based remote control of jitter buffer, ...** **STQ**
Related to topics handled by WG3.
- 19tTD044** **Re-Proposed Collaboration for IPTV Plugtest** **MSF**
A cross TISPAN coordination is needed
WG6 at the time being is not working on IPTV test definition. WG6 is working on SIP and IMS test, no experts on IPTV join WG6. If ETSI would develop IPTV testing, probably IPTV experts should join WG6.
This should be raised to the plenary attention. Since it could be related to interconnection issue the liaison will be discussed also during the 19ter Plenary.
- 19tTD244** **Response to Liaison Statement on peer to peer** **DVB**
DVB send the draft version of the document they are working on.
A liaison back could be sent thanking for the document and submitting the latest draft of the WI 2075
- 19tTD256** **Response to Liaison Statement on IPTV requirements** **DVB**
The liaison has been noted since no feedback provided on TISPAN IPTV requirements works

B.4.2 Outgoing

- 19tTD259** **Liaison from TISPAN to DVB – Concerning peer-to-peer content delivery**
Editorial modifications will be incorporated in R1

R2

The liaison has been WG agreed. Fast approval requested

19tTD261

R1

Handled by WG3

19tTD263

R1

Handled by WG5

B.5 Report

B.5.1 Previous meeting

The action point list from the TISPAN 19 bis meeting report has been checked

B.6 Release 1 Maintenance

B.6.1 Overall

B.6.1.1 WI 1060 – Overall requirements

19tTD067

Common IMS references

Telecom Italia

No questions or comments

Contribution accepted – CR number 002 assigned – R1 expected to include the CR number

R1

This contribution has been WG agreed as CR n. 002

19tTD278

Output draft

Rapporteur

This contribution contains the output draft

The output draft version is 1.1.3

Agreement on the output draft on mailing list

B.7 Release 2 Maintenance

B.7.1 Overall

B.7.1.1 WI 0005 – TR 180 002 – Release definition

19tTD181

Rapporteur Input

Rapporteur

The Rapporteur for the main topics will be contacted to provide an executive summary of what has been done during release2. Also the other WG chairs will be contacted.

Some part the document will be structured as a delta document with respect to release 1 definition. In other parts the complete list of the works done in release 2 will be included. This should clearly defined.

The analysis of the IPTV requirements covered by stage 2 should be done also in this document but it requires a dedicated analysis.

19tTD182 **Release 2 Stage 1 Analysis**
This contribution has been withdrawn

WG Chair

B.7.1.2 WI 1062 – TS 181 005 – Overall requirements

19tTD050 **Editorial correction and modifications** **Telecom Italia**
In addition to the changes, remove also the hyperlink present in reference 13.
It has also been requested the rewording of other 2 requirements in QoS section in order to make the text more clear.
Contribution accepted – CR number 004 assigned – R1 expected to include the CR number

R1
This contribution has been WG agreed as CR n. 004

19tTD069 **Common IMS ref for Annexes A and B** **Telecom Italia**
Editorial comments on a sentence in Annex B.
Contribution accepted – CR number 005 assigned – R1 expected to include the CR number

R1
This contribution has been WG agreed as CR n. 005

19tTD279 **Output draft** **Rapporteur**
This contribution contains the output draft
The output draft version is 2.4.3
Agreement on the output draft on mailing list

B.7.2 IPTV

B.7.2.1 WI 2071 – TS 182 027 – IPTV architecture IMS based

No contributions to this meeting

B.8 Release 3

B.8.1 New WI

19tTD144 **New Stage WI on Content Delivery Network (CDN)** **France Télécom**
It seems that creating a WI for IMS purposes only could be not a good solution since another WI for integrated solution is needed.
It is agreed that in some case different interfaces or procedures are needed to handle the 2 architectures.
One solution could be to create an unique WI and then differentiate some sessions of the new document.
Having an unique document on the other hand could bring to an architecture with too many differentiate options for the 2 different architectures.
A global scheme to integrate "IPTV integrated solution" with CDN could be useful
Coordination with requirements on IPTV needed
The contribution is noted

R1
Also the integrated solution is considered for CDN
The contribution has been general agreed and is noted

19tTD146 **new WI: CDN** **FT, TI, Huawei,ZTE,Thomson**

R6
This is intended to be an Release 3 document
During the discussion the scope has been clarified

It has been clarified that contributions could be provisional agreed already during the next 20WG meeting waiting for the TB approval at TISPAN 20. For this reason the WI number has already been assigned (WI 2076).

The new WI has been WG agreed

B.8.2 Overall

19tTD027 **Discussion Notes [092] R3 Stage1** **WG Chair**
No particular question or comment
The document has been noted

B.8.2.1 WI 0006 – TR 180 000 – Terminology

No contributions to this meeting

B.8.2.2 WI 0007 – TR 180 002 – Release definition

No contributions to this meeting

B.8.2.3 WI 1061 – TS 181 005 – Overall requirements

This WI is now considered as Stable draft. This WI is candidate for WG agreement at TISPAN20WG

19tTD051 **Corrections and editorial modifications** **Telecom Italia**
In addition to the changes, remove also the hyperlink present in reference number 13.
Contribution accepted – CR number 004 assigned – R1 expected to include the CR number

R1
This contribution has been WG agreed as CR n. 004

19tTD052 **Reference to IPTV** **Telecom Italia**
No questions or comments.
Contribution accepted – CR number 005 assigned – R1 expected to include the CR number

R1
This contribution has been WG agreed as CR n. 005

19tTD053 **PUC** **NEC**
Wrong version number
It should be checked if it is correct to add a clause dedicated to PUC (intended as stand alone service) or it should be incorporated in other already present sections
There was the sensation that PUC is limited to SPIT only and so the first sentence of the contribution should be modified in order to enlarge the concept.
This contributions should be reviewed during the joint meeting with WG7
The contribution has been discussed, potential revision to address the concerns

R1
No additional questions or comments
Contribution accepted – CR number 008 assigned – R1 expected to include the CR number

R2
This contribution has been WG agreed as CR n. 008

19tTD059 **QoS requirements** **Telecom Italia**
Remove the word “support” in the 4th requirements
Also rewording of other 2 requirements in order to make more clear the text.
Contribution accepted – CR number 006 assigned – R1 expected to include the CR number

R1

This contribution has been WG agreed as CR n. 006

19tTD070

Common IMS ref for Annexes A and B

Telecom Italia

Small rewording in the last proposed sentence in Annex B required.

Contribution accepted – CR number 007 assigned – R1 expected to include the CR number

R1

This contribution has been WG agreed as CR n. 007

19tTD121

Output draft

Rapporteur

This contribution contains the output draft

The output draft version is 3.1.2

Agreement on the output draft on mailing list

B.8.2.4 WI 2067 – TS 282 001 – Overall architecture

19tTD191

Clarification of BTF behaviour for policy enforcement

Cisco, Telecom Italia

The 2 different examples are related to unicast and multicast. A rewording in order to better explain which example is related to unicast and which one is related to multicast is requested

Contribution discussed – CR number 004 pre-assigned – R1 expected to include the CR number and cover the concerns expressed

R2

This contribution has been WG agreed as CR n. 004

19tTD276

Output draft

Rapporteur

This contribution contains the output draft

The output draft version is 3.2.1

The output draft has been WG agreed during the closing session

B.8.3 IPTV

19tTD072

Overview of TNO-KPN Contributions

TNO-KPN

The contribution contains an overview of the contribution from TNO-KPN.

The contribution has been noted

19tTD074

Discussion Resolution of Content Identifiers

TNO-KPN

R2

Refer to WG4 report since it has been discussed during the joint meeting.

The contribution has been noted

19tTD249

Questions related to IPTV Management

WG chair

This document contains a list of questions from the WG8 related to IPTV.

Additional information on this document could be found in WG8 report.

The contribution has been noted

B.8.3.1 WI 1059 – TS 181 016 – IPTV requirements

This WI is now considered as Stable draft. This WI is candidate for WG agreement at TISPAN20WG. The 3rd Party Content related aspects should be cleaned up during the next meeting (see aspects related to contributions 19tTD066, 19tTD073 and 19tTD266)

19tTD066

Thread [093] Third Party Content related to on IPTV

Vice chair

During the conference call it was not possible to reach consensus on the meaning of “third party content”.

The gap is mainly related to the role of the IPTV service provider.

Explanation of the term “third” has been given.

Before using the term “third party content” it is suitable to find an agreement on the meaning.

A new pictorial representation of the different roles is contained in 19tTD266
The contribution has been discussed and noted

19tTD073 **Discussion Third Party Content**

TNO-KPN

It is useful to distinguish the business-relationship axis from the technical axis
A third axis could be added, this identify 8 cubes, but probably not all the 8 cubes need to be considered
We need to distinguish between content that is currently managed by the service provider and content that is not.

The three questions are:

- 1) Where the content is currently stored? (already in the service provider network or not)
- 2) How the content is delivered to the user?
- 3) The business relationship is between the user and the IPTV service provider or between the user and the content provider?

There is an agreement that the content delivered via "Other service" is not within the scope of TISPAN
release 3

The contribution has been discussed and noted

19tTD204 **Linking Presence Info, IPTV channels, and other**

NEC

The presence information could be extended also to the content and not only related to the user.
Presence has been defined in other groups than TISPAN.

Difference between EPG and presentities associate to IPTV content has been specified.

A different section should be created since this presence concept is not related to the user.

Maybe an use case could be useful to better understand the concept

Section 6.1.1 should be splitted in 2 parts: User presence and other presence

The contribution has been discussed, potential revision to address the concerns is expected

R1

The division of section 6.1.1 into 2 sub clause could require the duplication of some requirements. A possible way forward is to have a generic session for presence and then section for user presence, network presence and a last one for watchers

Another way is to qualify each requirement indicating it they are user, network or both related

The contribution has been discussed, potential revision to address the concerns

R2

No additional question or comments

Contribution accepted – CR number 053 assigned – R3 expected to include the CR number

R3

This contribution has been WG agreed as CR n. 053

19tTD217 **Channel Change Clarifications**

Alcatel-Lucent

Wrong version number

No revision marks used

Discussion part should be removed

No clear what the explicit metric on time change (500 ms) means for stage 2 and stage 3 works.

No clear what "channel changes" means: which is the explicit part of the join action that should be measured

No clear if also the decoder time into the set top box should be considered or not but this is not under network provider control.

The "shall" in the first requirement is probably too strong probably should is more indicated

It should be clarified if the second document referenced is already public available or not

The term "pure broadcast" in the second requirement should be changed

The contribution has been discussed, potential revision to address the concerns

R1

Part of the requirement is related to the transport level (channel joining is in fact related to the IGMP join) and so it should clear that is not a service layer requirement, but it could affect.

The second requirement could be intended as a better performance that traditional TV is required: a more generic requirement is suitable

The second reference should be informative

It should be checked if the first reference is used or not in the document

The contribution has been discussed, - CR number 054 pre-assigned – R2 expected to include the CR number and address the concerns

R3

This contribution has been WG agreed as CR n. 054

19tTD266

Discussion Notes IPTV Content

WG chair

This document contains a graphical representation of the agreement reached during the 3rd party discussion. One possible solution is to move the 3rd Party Content text into a new document (e.g. the CDN WI proposal contained in 19tTD146) removing the text from 1059. The MF-MF inter-domain is partially documented in 2070. We have to decide where to fully document this stuff. "Fully document" means define the information flows, for Control, Media, Security and digital rights. **The contribution has been discussed and noted**

19tTD220

Output draft

Rapporteur

This contribution contains the output draft
The output draft version is 3.2.2
Agreement on the output draft on mailing list

B.8.3.2 WI 2070 – TS 182 027 – IPTV architecture IMS based

19tTD075

Resolving Control Command Conflicts for Shared Content TNO-KPN

Comments about the existing approach and text:
- the content control could not be shared since if a client put a content in pause another client could not resume the content.
- The state between different UEs and a server should be synchronized.
- The proposed procedure does not work with the today client, but in some cases we have already changed the behaviour of a client before.
Other comments:
It should be clarified if the step 4 is from the MF to a single UE or toward all the UEs
A simple solution should be considered in order to not increment the delay to perform the different operations
The first step of the diagram has to be reviewed.
The contribution has been discussed and noted

19tTD076

Resolving Control Command Conflicts for Shared Content TNO-KPN

A R1 should cover the concerns expressed during the presentation of the companion contribution 19tTD075
The contribution has been discussed, potential revision to address the concerns

R1

Step 5 in 8.21.4.1 should be changed since it is incorrect
The first editor's note should be removed
The management of busy situation should be considered
Again comments related to the clients behaviour
The last figure should be modified and step 2 should be clarified
The contribution has been discussed, potential revision to address the concerns

R2

Contribution accepted – CR number 098 pre-assigned – R3 expected to include the CR number

R3

Concern on trick play commands management
It was discussed that the room based SSC concept was developed during the TISPAN 19ter meeting and there is concern whether this concept is technically feasible. Concerns were also raised about having to send Trick Play/Media Commands through the IMS which is implied by this concept. Alternative solutions to the room concept should be investigated.
This contribution has been WG agreed as CR n. 098

19tTD077

Alignment of IPTV Service State Detection Mechanism

TNO-KPN

The editor's note in the first proposed change could not be necessary
Discussion on procedures after figure 37 are needed
To detect the service status, presence should be the principal method, but also other mechanisms are present
The contribution has been discussed, potential revision to address the concerns

R1

Additional discussion required. E-mail thread needed
The contribution is deferred to mailing list discussion

19tTD078 **Clarification of UGC Creation Procedure** **TNO-KPN**

Clarification on the distinction between "Publication" and "Description"
Relation with MF for publications
The contribution has been discussed, potential revision to address the concerns

R1

Additional off line explanations on the meaning of the Editor's note are needed
Contribution accepted – CR number 086 pre-assigned – R2 expected to include the CR number

R3

This contribution has been WG agreed as CR n. 086

19tTD079 **Clarification of UGC Watching Procedure** **TNO-KPN**

Generic request for off line clarifications
The contribution has been discussed, potential revision to address the concerns

R1

Editorial numbering issues
Contribution accepted – CR number 087 pre-assigned – R2 expected to include the CR number

R2

This contribution has been WG agreed as CR n. 087

19tTD080 **Procedure for Personal Stream Composition** **TNO-KPN**

R1

Some issues related to the terminology used
The terminology should be aligned with DVB terminology
The contribution has been discussed, potential revision to address the concerns

R2

Improvements are requested in stage 1
Contribution accepted – CR number 088 assigned – R3 expected to include the CR number

R4

This contribution has been WG agreed as CR n. 088

19tTD081 **Synchronization of Shared Content** **TNO-KPN**

No questions or comments on the content, only editorial clarifications.
Contribution accepted – CR number 089 assigned – R1 expected to include the CR number

R2

This contribution has been WG agreed as CR n. 089

19tTD082 **Synchronization Procedures** **TNO-KPN**

Off line editing needed
Contribution accepted – CR number 090 assigned – R1 expected to include the CR number

R2

This contribution has been WG agreed as CR n. 090

19tTD090 **Missing specification of the role of BGF in IPTV flows** **Ericsson**

R1

This contribution is for discussion only. A CR could be provided if there is agreement on the concept. Multimedia telephony always requires BGF, in IPTV there could be cases where BGF is not used. The text in 182 027 implicitly assume that BGF shall be always used so an option to bypass it should be inserted, The solution on how to bypass is a stage 3 issue
It is possible that the CR should be done against Overall architecture work item (WI 2067)

This contribution has also been discussed during RACS sections. There is no disagreement on the fact that it is possible to bypass the BGF. In the current RACS definition the bypass possibility is already covered, but a contribution to make this assumption more explicit could be provided
The contribution is noted

19tTD100 *Limitations in IPTV services related data structures* *Ericsson*

R1

This contribution is for discussion only. A CR could be provided if there is agreement on the concept
Additional off line discussion are needed
The contribution is noted

19tTD101 *Modifications to Flows and Assumptions in Sess. Transfer* *Ericsson*

At the time being in 3GPP sessions transfer seems to be possible only within the same subscription. In this procedure session transfer between 2 different subscriptions is envisaged that is out the current 3GPP specifications.

Contribution accepted – CR number 095 assigned – R1 expected to include the CR number

R1

This contribution has been WG agreed as CR n. 095

19tTD107 *Signalling Flows for IPTV Favourites procedures* *NEC*

This is also related to the discussion on terminology.
Clarifications why for bookmarks it is necessary to go through the IMS and for other similar information other interface are used are necessary

The contribution has been discussed, potential revision to address the concerns

R1

Clarifications given
Contribution accepted – CR number 096 assigned – R2 expected to include the CR number

R2

This contribution has been WG agreed as CR n. 096

19tTD147 *Playlist parameters* *France Télécom*

No questions or comments

Contribution accepted – CR number 091 assigned – R1 expected to include the CR number

R1

This contribution has been WG agreed as CR n. 091

19tTD149 *Shared Content Information Publication* *France Télécom*

Clarification on entity that generate the identifier.

It is not clear if the procedure is related to share the content or the control of the content

Definition of Content Identifier is useful in order to avoid confusion

“Content Identifier” and “Shared Content Identifier” should not be confused.

The contribution has been discussed, potential revision to address the concerns

R1

The concept of Shared Service Control Room shall be explained

It has been clarified that only one content at time is present in the room, but the content could be changed

Also a relation between room and service should be clarified

The contribution has been discussed, potential revision to address the concerns

R2

No additional questions or comments

Contribution accepted – CR number 093 assigned – R3 expected to include the CR number

R3

It was discussed that the room based SSC concept was developed during the TISPAN 19ter meeting and there is concern whether this concept is technically feasible. Concerns were also raised about having to send Trick Play/Media Commands through the IMS which is implied by this concept. Alternative solutions to the room concept should be investigated.

This contribution has been WG agreed as CR n. 093

19tTD179 *Metadata update*

Slovak Telekom

Contribution not discussed since the author was not present at the meeting.
The contribution is deferred to the next meeting

19tTD183 *Modifications on Procedure for Shared Content*

Huawei, Alcatel-Lucent

It should be clarified what the "shared group identifier" identifies.
The reference to the content shared should be kept.
Different views of what is remote controlled

The contribution has been discussed, potential revision to address the concerns

R1

Clause 8.21.4 should be removed since covered by contribution 19tTD076.
Editorial revision on the style of the figure: step 1 and 3 should be solid lines since they are mandatory steps, step 2 is optional so dotted line is correct.

Contribution accepted – CR number 094 assigned – R2 expected to include the CR number

R2

It was discussed that the room based SSC concept was developed during the TISPAN 19ter meeting and there is concern whether this concept is technically feasible. Concerns were also raised about having to send Trick Play/Media Commands through the IMS which is implied by this concept. Alternative solutions to the room concept should be investigated.

This contribution has been WG agreed as CR n. 094

19tTD184 *Procedure for Acquiring User's Service Access History* *Huawei*****

Add an explicit step to check the privacy information if the information could be accessed.
Also in this case the procedure is done using IMS but other interfaces could be used so more detailed analysis is needed.

The contribution has been discussed, no consensus so contribution has been withdrawn

19tTD185 *Reuse Media Channel for CoD Services*

Huawei

The generic case should be solved first and the particular cases consequently.
Additional comment off line

The contribution has been discussed, potential revision to address the concerns

R1

The first sentence of the paragraph should be modified
Styling problem, minor editorials required
Additional comments

Contribution discussed – CR number 097 pre-assigned – R2 expected to include the CR number and to address the final comments

R2

Additional comments on step 3

R3 expected to address the final comments

R3

Styling problems

This contribution has been WG agreed as CR n. 097

19tTD188 *CPN NAT traversal investigation for IMS based IPTV*

NEC, FT-Orange

This contribution has been discussed during the WG2-WG5 meeting (see section Joint meeting in this agenda)

Further contribution for WG3 and 5 was anticipated.

19tTD197 *Editors note on relationship between Xc and BC tasks*

Rapporteur

No question or comments

Contribution accepted – CR number 085 assigned – R1 expected to include the CR number

R1

This contribution has been WG agreed as CR n. 085

19tTD202 **Cleanup of IPTV Bookmark Terminology** **NEC**
Different opinions if the term bookmark is or not confusing. The term favourites seems to not be so suitable.
A possible solution is to differentiate between user and network generated bookmarks.
Content mark could be a possible solution
The contribution has been discussed, potential revision to address the concerns

R1
No additional questions or comments
Contribution accepted – CR number 092 assigned – R2 expected to include the CR number

R2
This contribution has been WG agreed as CR n. 092

19tTD252 **Shared Service Control** **TNO**
This document contains a snapshot of the drafting discussion related to the shared service control.
This represent an overview picture of the shared control and then the other single contributions propose solution for the different aspects
It was discussed that the room based SSC concept was developed during the TISPAN 19ter meeting and there is concern whether this concept is technically feasible. Concerns were also raised about having to send Trick Play/Media Commands through the IMS which is implied by this concept. Alternative solutions to the room concept should be investigated.
The contribution has been discussed

19tTD212 **Output draft** **Rapporteur**
This contribution contains the output draft
The output draft version is 3.1.3
Agreement on the output draft on mailing list

B.8.3.3 WI 2074 – TS 182 028 – IPTV architecture integrated

19tTD215 **Input draft** **Rapporteur**
It is the same of the output draft
The contribution has been noted

19tTD083 **Synchronization Procedures** **TNO-KPN**
No questions or comments
Contribution accepted – CR number 014 assigned – R1 expected to include the CR number

R1
This contribution has been WG agreed as CR n. 014

19tTD176 **Functional architecture** **Slovak Telekom**
Wrong version number
No questions or comments
Contribution accepted – CR number 015 assigned – R1 expected to include the CR number

R1
This contribution has been WG agreed as CR n. 015

19tTD177 **R3 tasks for MCF&MDF** **Slovak Telekom**
Wrong version number
No questions or comments
Contribution accepted – CR number 016 assigned – R1 expected to include the CR number

R1
This contribution has been WG agreed as CR n. 016

19tTD178 **Procedures for UGC** **Slovak Telekom**
Wrong version number
Editorial problem in the figure: 2 step 2 are present and no step 3
Harmonization with 2070 WI on the same topic is needed

The contribution is deferred to the next meeting

19tTD218 **Fixed mobile service continuation** **Alcatel-Lucent**

No revision marks used
An editor's note saying that alignment with 3GPP shall be maintained should be added
The numbering step should be review
UE1 will be indicated as 3GPP device
The contribution has been discussed, potential revision to address the concerns

R1

The diagram flow 14 and 15 need to be adjusted
It should be added an editor's note referencing 3GPP and saying that a single subscription should be considered.
Contribution accepted – CR number 018 assigned – R2 expected to include the CR number and address the editorial comments

R2

This contribution has been WG agreed as CR n. 018

19tTD219 **Remote control of NGN intergrated IPTV services** **Alcatel-Lucent**

No revision marks used
Editorial comments
Contribution accepted – CR number 017 assigned – R1 expected to include the CR number and address the editorial comments

R1

This contribution has been WG agreed as CR n. 017

19tTD216 **Output draft** **Rapporteur**

This contribution contains the output draft
The output draft version is 3.1.2
Agreement on the output draft on mailing list

B.8.3.4 WI 2075 – TR 182 010 – Peer 2 peer for IPTV

19tTD084 **Introduction to Peer to Peer Architectures** **TNO**

This contribution add an introduction on the different architectures for peer to peer and some informative references.
No questions or comments
The contribution has been agreed and will be incorporated in the output draft

19tTD085 **Structured versus Unstructured Peer to Peer** **TNO**

No questions or comments
The contribution has been agreed and will be incorporated in the output draft

19tTD086 **Peer to Peer Challenges** **TNO**

No questions or comments
The contribution has been agreed and will be incorporated in the output draft

19tTD087 **Output draft** **Rapporteur**

This contribution contains the output draft
The output draft version is 0.0.5
The output draft has been agreed during the closing session

B.8.4 RACS and NASS

B.8.4.1 WI 2054 – MI XXX XXX – Gq'/Rx harmonization

No contributions to this meeting.

B.8.4.2 WI 2068 – ES 282 004 – NASS

No contribution to this meeting to this WI. Mobility impacts on NASS and clause 7 “Information flow” seem to be the 2 open areas remaining and contributions are invited for the next meeting.

B.8.4.3 WI 2072 – ES 282 003 – RACS

During the 19tTD190 discussion it has been agreed that a section related to the definition of “BTF main functionalities” should be added. This is for further contributions

19tTD055 Editorial en. to the first two sub-clauses of x-RACF Portugal Telecom

Wrong version number

The first sentence of existing text applies both for push and pull

A more generic text valid both for push and pull could be more suitable. A different solution could be to add and editor’s note

The second change proposed has general agreement

The contribution has been discussed, potential revision to address the concerns

R1

No additional questions or comments

Contribution accepted – CR number 026 assigned – R2 expected to include the CR number

R2

Due to the server failure this CR was not available for final review and should go to the mailing list approval

This contribution has been WG agreed as CR n. 026

19tTD056 Applicability of sub-clauses 6.2.2.x to C-RACF Portugal Telecom

Wrong version number

The note in the 3rd modification should not be changed

The text in the 1st modification that applies only to A-RACF (all except the first 3 paragraphs) could be moved into the A-RACF sub-clause 6.2.3. Editorial revision on the first change needed

The contribution has been discussed, potential revision to address the concerns

R1

In the first modification there is a wrong substitution before the bullet list (A-RACF should be x-RACF)

Another editorial modification needed

Contribution accepted – CR number 027 assigned – R3 expected to include the CR number

R3

Due to the server failure this CR was not available for final review and should go to the mailing list approval

This contribution has been WG agreed as CR n. 027

19tTD057 Applicability of further sub-clauses 6.2.y to C-RACF Portugal Telecom

Wrong version number

In section 6.2.5.1 modifications are needed. A drafting to find these modifications is needed or it should be possible to add an editor’s note asking clarifications for the next meeting

The contribution has been discussed, potential revision to address the concerns

R1

2 editorial modifications suggested

Contribution accepted – CR number 028 assigned – R2 expected to include the CR number

R2

Due to the server failure this CR was not available for final review and should go to the mailing list approval

This contribution has been WG agreed as CR n. 028

19tTD058 Reference points associated with C-RACF Portugal Telecom

Wrong version number

The reason why Rr is not applicable is since the C-RACF should be a very simple functional entity and the procedures related to the Rr are very complicated.

Some companies envisages use cases for having a distributed C-RACF and so using Rr interface

This affect also contributions 19tTD056 and 19tTD122

The contribution has been discussed, potential revision to address the concerns

R1

No additional questions or comments

Contribution accepted – CR number 030 assigned – R2 expected to include the CR number

R2

Due to the server failure this CR was not available for final review and should go to the mailing list approval
This contribution has been WG agreed as CR n. 030

19tTD068

Clarification on Rr features

PT, TI, Huawei, Ericsson,

ALU

Additional sentence to better clarify the delegate mode are needed

The contribution has been discussed, potential revision to address the concerns

R1

No additional questions or comments

Contribution accepted – CR number 031 assigned – R2 expected to include the CR number

R2

Due to the server failure this CR was not available for final review and should go to the mailing list approval
This contribution has been WG agreed as CR n. 031

19tTD122

Admission Control Process for C-RACF

Portugal Telecom

Wrong version number

All the text is new text since a new clause is proposed. The revision marks highlight the difference with the existing section dedicated to the A-RACF

Some companies say that step 1 does not apply to the C-RACF.

The QoS profile concept for the core should be more clarified

The contribution has been discussed, potential revision to address the concerns

R1

Editorial modifications

Contribution accepted – CR number 029 assigned – R2 expected to include the CR number

R2

Due to the server failure this CR was not available for final review and should go to the mailing list approval
This contribution has been WG agreed as CR n. 029

19tTD190

Clarification of BTF – RCEF interaction/BTF behaviour

Cisco, Telecom Italia

R1

It has been clarified that this text is enough to address the concerns expressed by the WG3 in the past meeting

For some companies the BTF should also be specified in the RACS document, a paragraph could be added, to specifies the BTF.

The text proposed does not imply a new interface: the interface already exist. A note could be added saying that this interface is out the scope of the current document.

Contribution discussed – CR number 025 pre-assigned – R2 expected to include the CR number and cover the concerns expressed

R2

An editors note saying also in the draft that the BTF should be specified should be added somewhere in the document (this section or a new section)

Contribution discussed – CR number 025 pre-assigned – R3 expected to include the CR number and cover the concerns expressed

R3

This contribution has been WG agreed as CR n. 025

19tTD193

RACS CPN interaction requirements

NEC

A first pass of the document has been done during the joint WG2-WG5 meeting. Revision expected to address the comments and concerns

The contribution has been discussed, potential revision to address the concerns

R1

Requirements on security should be removed. A reference to the security document should be added. An editor's note saying what requirements should be covered in WG7 is added in order to not lost the topic
Editorial modification in the first requirement needed

Contribution discussed – CR number 032 pre-assigned – R2 expected to include the CR number and cover the concerns expressed

R2

Minor editorial modification

R3 expected to include the editorial modifications

R3

This contribution has been WG agreed as CR n. 032

19tTD194 RACS CPN interaction, network deployment scenarios NEC

A first pass of the document has been done during the joint WG2-WG5 meeting. Revision expected to address the comments and concerns

The contribution has been discussed, potential revision to address the concerns

R1

An editors note in 6.2.2.1.1 saying that a possible new specification for the x-RACF for an Home network should be added

A new modification in this CR should be added to cover the above statement

Discussions if the interface between RACS and CPN should be considered inter domain since home and network domains are different, but they are in the same business domain

The Annex D.4 should be further discussed with WG5 during the next joint meeting.

Also a new Annex could be considered

We can consider the CPN as a black box, so RACS should define which kind of information send to CPN and then define a reference point. It is possible that a new name of the interface is needed and it is possible (suitable) that some protocol definitions could be reused

The contribution has been discussed, potential revision to address the concerns

R2

The ITU-T Rh should be included in this analysis

The sentence in section D.4.3 should be removed

All the sections following the D.4.3 should be void since the analysis is not yet been done. The text should be converted into an editor's note.

There is general agreement on the structure

The contribution has been discussed - CR number 033 pre-assigned – R3 expected to include the CR number and cover the concerns expressed

R3

No additional questions or comments

Clean version needed

R3 expected to include the CR number and cover the editorial issues

R4

This contribution has been WG agreed as CR n. 033

19tTD123 Output draft

This contribution contains the output draft

The output draft version is 3.2.2

Agreement on the output draft on mailing list

Rapporteur

B.8.5 Mobility

B.8.5.1 WI 2069 – TR 182 026 – Mobility analysis

19tTD108 Mobility impact on NASS

Huawei

This contribution has been withdraw since is a duplication of 19tTD222

19tTD222 **Proposal for additional text on mobility impact on NASS** **Huawei**
Clarification on subnet concept is needed.
In table 7 scenario C is inter domain and it seems that is possible to perform this mobility without changing IP address
In the table 7.2.1.c the inter-subnet scenario should be better clarified
The contribution has been discussed, potential revision to address the concerns

R2
Add the number of the TD
The contribution has been discussed, revision to address the editorial issue

R3
The contribution has been agreed and will be incorporated in the output draft

19tTD117 **Output draft** **Rapporteur**
This contribution contains the output draft
The output draft version is 0.1.6
Agreement on the output draft on mailing list

B.9 Joint meetings

B.9.1 WG2 + WG3

Refer to WG3 report

B.9.2 WG2 + WG4

19tTD074 **Discussion Resolution of Content Identifiers** **TNO-KPN**
R2
Refer to WG4 report

B.9.3 WG2 + WG5

19tTD023 **Agenda joint meeting WG5 – WG2** **WG chair**
The agenda for the joint meeting has been agreed
An IPR declaration has been done in WG5 and the WG2 was notified of this

19tTD037 **LS about the publication of a DVB bluebook on QoS** **DVB**
The liaison seems to be very focused in Home environment so the WG5 take the lead to prepare a answer.
The document prepared by DVB should be considered as stimulus for additional QoS activities within WG5.
Also WG3 could be involved. The response should be socialized by WG5 to other TISPAN WG. The relationship between TISPAN and DVB should be checked with the ETSI secretariat.
The timing should be checked in order to see if the liaison should be TISPAN approved at the Plenary or before.
No detailed specifications will be provided, only high level indications and references

19tTD188 **CPN NAT traversal investigation for IMS based IPTV** **NEC, FT-Orange**
The document presents alternatives to manage NAT Traversal issues with the involvement of CPN and other NGN functional entities, considering specific issues related to unicast and multicast.
The document summarises a small number of guidelines to address the issue in WG5 document WI5020 (IPTV IMS based CND specification). The joint meeting expressed a substantial agreement on the TD contents and derived guidelines.

19tTD193 **RACS CPN interaction requirements** **NEC**
The first step is that RACS could provide services to CPN

The first sentence of requirement 42 is related to the CPN and so shall not be included in the RACS document. The second sentence of this requirement should be rewritten putting requirement on RACS side. Requirements 43 should be smoothed in order to better explicit that not all the procedures are relevant but only a sub set. In addition this section is functional requirements and the requirement is not functional so it should be replaced with a note.

The requirements 44-46 are security requirements and they are not covered in RACS document, but in WG7 documents.

19tTD194 **RACS CPN interaction, network deployment scenarios** **NEC**

A R3 document for CNG architecture is not yet active so WG2 could not put reference point. An editor's note could be added in the RACS document to address this point.

Regarding Rd' and Ri' it should be clarified if both business models (intra and inter domain) should be supported or not.

Before introducing an inter domain scenario toward the CPN a valid use case should be provided and agreed. So the Ri' interface should be removed

B.9.4 WG2 + WG7

19tTD038 **Liaison statement from Ecma TC32-TG17** **ECMA**

WG3 is now leading the activities corporate related so it should be discussed during the joint WG2-WG3 meeting

19tTD053 **PUC** **NEC**

No new comments added to the ones given when the contribution has been discussed within the WG2 under WI 1061 topic.

19tTD205 **PUC architecture** **NEC**

R1

WG7 looks for input and guidance on how to apply to TISPAN Architecture these concepts.

The new functionality has not been allocated in any functional element right now

This new functionality should be incorporated into WI 2067

A draft conference call to address this issue could be suitable. The Rapporteur of the WI 2067 (B. Chatras from France Télécom-Orange) should be involved

19tTD222 **Proposal for additional text on mobility impact on NASS** **Huawei**

Another table to analyse the security aspects related to the different scenarios is needed

C WG 2 issues

This list will be carried over between meetings to hold issues identified. Proposals for entries are very welcome. The remaining release 2 issues were deleted.

C.1 Suggested topics beyond Release 2

This list of topics has been started at TISPAN #14bis, replacing the previous list of release 2 topics and starting from the "future topics" listed there. It will be carried over between meetings. Suggestions for topics (also via e-mail) are most welcome!

Please note that this list only represents an informal collection of ideas and no prioritisation. The topics represent general WG 2 agreement that these are worthwhile areas for consideration in the new work-items (stages 1 and 2) being developed.

C.1.1 RACS topics

Use cases:

1. Use cases for applications and services in a RACS environment should form the basis of further work. (15bTD239)
2. Wholesale scenarios (in greater detail, linked to Ri'). This includes NASS interaction, e.g. NASS proxy. (16b discussion)

Other bodies:

3. Improve consistency with DSL Forum standards. (15bTD112)
4. Improve consistency with the 3GPP PCC and SAE Architectures. (15bTD112)

Specific topics:

5. Provide specifications for supporting Session Continuity at the transport level. (also includes NASS aspects) (15bTD112)
6. Provide specifications for supporting Admission Control in the Core Network. (15bTD112)
7. Provide specifications for supporting interactions with resource control functions in Home Networks (Interaction of functional block in CNG responsible for admission control with the network, e.g. bandwidth available). (15bTD112)
8. Provide Stage 2 specifications for the Rd' reference point. (15bTD112)
9. Complete description on Re' and Ri'. (15bTD112)
10. Provide Stage 3 specifications for the Ri', Rd' and Rr reference points. (15bTD112)
11. Provide full specification of Audit, Restoration and Synchronisation mechanisms. (15bTD112)
12. Provide full specification of overload control procedures (Stage 2 and 3). (15bTD112)
13. End-to-end aspects (16b discussion)
14. Nomadism, and mobility beyond nomadism. This should be studied together with 3GPP in the frame of non-3GPP access networks. This includes WIMAX, but is not limited to this (16b discussion, 16bTD212, 16bTD213, 16bTD214)
 - Interconnect cases (e.g. RACS-PCRF and synergies between Ri' and S9) should be included.
15. Policy transfer (16b discussion)
16. CLF discovery by the A-RACF (16bTD386)
17. Inclusion of features of TR 182.022: architecture for QoS handling (16b discussion)
18. Impacts of other and emerging fixed access technologies (e.g. Ethernet, FTTX) (RACS and NASS). The design of RACS and NASS is intended to be technology agnostic, and the intention is to ensure this.

RACS Support for IPTV:

19. reference points and functions for Resource and Admission Control (TS 182 019) in real-time in IMS-based IPTV networks (TS 182 027). (15bTD239)
20. RACS is relevant for IPTV services that require non-static resource reservations in the network: (15bTD239)
 - Broadcast services using IP Multicast in so called "sparse mode"¹
 - Content-on-Demand services
 - Personal Video Recorder services
21. Completion of multicast support in the access, and Multicast support in the core network (16b discussion)
22. RACS interaction with CNG (user generated content). (16b discussion)

¹ See [RFC 4601](#): "Protocol Independent Multicast - Sparse Mode (PIM-SM)"

23. RACS interaction with NGCN. (16b discussion)

C.1.2 NASS topics

1. Improve consistency with DSL Forum standards. (15bTD112)
2. Improve consistency with the 3GPP I-WLAN Architecture. (15bTD112)
3. Improve consistency with the WiMAX Architecture (16b discussion)
4. Provide Stage 3 specifications for the UAAF – CLF reference point (a4) (15bTD112)
5. Provide Stage 3 specifications for the use of PANA (impact on e1,a1,a3). (15bTD112)
6. Provide specifications for supporting session continuity at the transport level (i.e. mobility within a TISPAN Access Network, between TISPAN Access Networks and between a TISPAN Access Network and a 3GPP IP-CAN). (15bTD112)
7. Provide specifications for using NASS authentication as a Single-Sign On solution. (15bTD112)
8. Provide full specification of Audit, Restoration and Synchronisation mechanisms. (15bTD112)
9. Nomadism concepts and mobility (see RACS topics) (16bis discussion)
10. Wholesale models (see RACS topics) (16bis discussion)
11. Additional authentication methods (16bis discussion)

C.1.3 Generic Architecture

1. Introduction of Metro Networks. (16bTD209)
2. Mobility support (16bTD212, 16bTD213)
3. Support of WiMAX access (16bTD214)

C.1.4 IP-TV topics

Most of those suggestions apply to both the IMS-based and the separate subsystem approach.

1. *Service Interaction Function*: reference points and functions needed for service interaction in IMS-based IPTV networks (TS 182 027). Introduction of a state model. Also for study in the separate subsystem context (14bTD293, 15bTD241, 16bTD240, 16bTD241, 16bTD242)
2. *New service capabilities for SCF*: (14tTD279)
3. *Service Continuity*: The Release 2 specification does not address this feature. A typical use case is when a user decides to transfer an existing session from one terminal to another without content delivery being interrupted. (15bTD249)
4. *PVR evolution*: The Release 2 specification covers Network-PVR only. However, there exist uses cases where a user may be willing to record contents on one of its terminal devices, possibly by sending a remote command from another terminal. A typical use case is when a user decides from his/her mobile terminal to record content in his/her fixed one. (15bTD249)
5. *User / Consumer Generated Content*: The Release 2 specification covers the case where the contents are stored in the MF and does make any assumptions on where these contents are generated. The increasing popularity of social networking services demonstrates a growing interest in user generated contents. In order to support the case where contents are generated by a user and stored in a particular MF, procedures for triggering contents recording from a UE will have to be defined. (15bTD249, 15bTD240)
6. *CND in streaming mode* (16bTD59, 16bTD358)
7. *Session PUSH*: The Release 2 specification covers the case if UE-initiated session initiation only. However, there are cases where the network (e.g. the SCF) should be able to initiate a session (e.g. in order to push a particular IPTV content to one or more users). (15bTD249)
8. *Mix between streaming and broadcast sessions*: a typical use-case is personalized ads-insertion in a broadcasted program. (15bTD249)
9. *NNI for IPTV*: reference points and functions needed to interconnect IMS-based IPTV networks (TS 182 027) between different IPTV Service Providers (15bTD238r1)
10. *Third-Party Access for IPTV*: reference points and functions needed to separate service control from network- and session control in IMS-based IPTV networks (TS 182 027). (15bTD242)
11. *Content Synchronisation Interaction for IPTV*: technical solutions, supporting use-cases, reference points and functions needed for content synchronisation in IMS-based IPTV networks (TS 182 027). (15bTD243, 16bTD237, 16bTD238, 16bTD239)

C.1.4.1 Additional IPTV topics

These additional topics was contained in 19bTD133r1

1. Clarified which part of specification will be mandatory and optional (e.g. in informative annex) as well as clarity what are features and services supported by R2 and R3.
2. According definition of Release 2: MCF and MDF tasks could be similar for both architectures as well interfaces between them and UE. There are several new tasks in R3 which should be similar to both architecture so synchronization of both WI in R3.
3. Content protection model defined/discussed in WG7 be taken in to account in WG2 documents (show in procedures, relation of IPTV architecture to IPTV security architecture)
4. WG8 works on IPTV management which is related to existing or ongoing WG2 documents with both IPTV architectures (show in procedures, relation of IPTV architecture to IPTV security architecture).
5. Mobility, nomadicity or roaming implication should be considered in Release 3 for both WI which mechanisms should be used and how need to be this capability enabled also for IPTV.
6. Can be used TISPAN NGN for deliver IPTV over FMC networks? Discuss or liaison with other bodies which relevant groups working on similar topics (e.g. in 3GPP, OMA, IEEE) if some of the existing mechanism & technologies or standards could be re-used for delivery of IPTV services over FMC networks using TISPAN NGN based IPTV architectures.
7. TISPAN NGN based IPTV architectures readiness for migration from IPv4 to IPv6 or using IPv6 only or hybrid networks (IPv4 & IPv6 in same time).
8. Optimization and simplification of procedures especially for new services. It was accepted principle during 18bis WG2 drafting that if will be possible in all new procedures will reused basic IPTV flows (CoD, BC, N-PVR, etc.) or their parts instead of repeating whole procedures.

WI2070 specific

1. Discussion about multiple service provider environment and SDF and multiple SSF setup. (was mentioned as out of scope for R2 – also same for R3 ? because looks that reference points not allow distribution and synchronization of service selection data cross domains or introduce external interfaces). This imply that only single IPTV service provider scenario is supported by TISPAN (no interconnection, no roaming).
2. Topics from R2:
 - a. Authentication: Is “IMS level authentication” enough for advanced IPTV service concepts?
 - b. Charging: TV-Channel vs. Session Charging? Other Billing models? Limitations of IMS based billing model?
 - c. Is it necessary to keep track of the status of concurrently running IPTV sessions (e.g. paused, playing, etc.) in the IMS Session Control architecture?
 - d. What happens in case of incompatible codecs? Trans-coding via MDFs (MRFP)?

C.1.5 Security topics:

1. NAT traversal for multicast (with WG 7): (14tTD585)
2. Network based PVR capability (15bTD428)
3. Transition between unicast and multicast traffic confidentiality (15bTD428)
4. Content authorisation hierarchy (E.g. provider on top of distributor) (15bTD428)