



SP-00329

Agenda point 6.6: WI handling

26-28.06.2000

Overall Presentation of Project Planning and WI handling



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Content

- Overall Presentation of Project Planning
- Rules for WI handling



Overall Presentation of Project Planning

- What is the Project Plan?
 - A stand-alone document (now in version 1.2 in SP-000317) listing all the WIs identified for R00. The identified WIs are already approved or not approved yet but agreed to be needed.
 - The WIs are classified in 3 hierarchical levels (top-down):
 - Feature:** New, or substantially enhanced functionality which represents added value to the existing system.
 - Building Block:** A sub-division of a feature, that may be "re-usable" - that is, a single building block may be common to two or more features.
 - Work task:** A sub-division of a building block, under the responsibility of a single Working Group. The output of a WT is the creation of one or more new TS (or TR) and / or Change Requests to existing TSs / TRs.



Example of project planning:

Feature Provisioning of IP-based multimedia services

Feature Building Block Work Task

Provisioning of IP-based multimedia services [S1 WI on service requirements including roaming]	Call control and roaming to support IP-based multimedia services in UMTS [S2 WI on architecture] Selection of multimedia call control protocol (e.g. H.323, SIP) Addressing and Routing	<particular call control and roaming protocol standardization is part of work task of CN WG's and to be reviewed with CN WG's> <other issues>
	"Security features to support IP-based multimedia services in UMTS [S3, Technical Area Security]	Authentication between mobile and „Gatekeeper“
		Integrity protection for Mobile to „Gatekeeper“ signalling
		Lawful Interception in the R'2000 architecture IPsec
Evolution of the bearers on the Radio interface to enable efficient IP-based multimedia services in UMTS [RAN: Technical Area Bearer and access stratum]	Introduction of Header Compression/Stripping at the RNC	
QoS to support IP-based multimedia services in UMTS [S2: QoS]		

Feature:
 New, or substantially enhanced functionality which represents added value to the existing system.

A work task represents work to be done by one Working Group. In this example, the work items here need potentially further detailing.



Example of work tasks and building blocks: Feature bearer-independent CS domain

A building block is a sub-division of a feature, representing a coherent set of technical functionality which would generally be expected to reside in a single system element.

OoBTC	N1 Codec Negotiation between UE and MSC
	N2 Codec Negotiation inter MSC, Bearer establishment inter MSC
	R2 Bearer establishment between UE and RAN, TFC control by RRC
	R3 Bearer establishment between MSC and RNC as well as RNC and Node B, Notification of the Codec mode to RAN, lu UP control procedure (rate control, initialization, time alignment)

Work task is a sub-division of a building block, representing a self-contained, well-scoped and well-scheduled item of work.

These are taken from S2 project coordination on ObBTC/TrFO and are a good example to explain the scope of a work task



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Work Item handling: principles (1/3)

- Basic Principles:
 - All the WIs identified as Features and BB in the Project Plan shall be documented by WI coversheet (WIC).
 - The provisioning of WIC for WTs is optional.
 - A single WIC can cover several BBs and/or WTs.



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Work Item handling: principles (2/3)

- Why to use WI coversheet (WIC)?
 - To provide more information on the WIs named in the Project Plan
 - To have a formal approval and a commitment in the willingness to complete the job
 - To have a clear reference when keeping track of the work progress (e.g. to identify the CRs related to the WI).



Work Item handling: principles (3/3)

- What hierarchical level (F/BB/WT) a WIC shall cover?
 - A WIC can theoretically cover any level as long as the following top-down rule is followed:

For a Feature, a WIC can always be presented.

For BB and WT, a WIC can be proposed only if one of the levels above the proposed WI is already covered by a WIC.

This means that:

- No WIC shall be proposed if none of the levels above the proposed WI is already covered by a WIC (*e.g. no WIC can be proposed for a BB if the corresponding F has no WIC*)
- A WIC can be proposed even if the level(s) below are not covered by WIC(s).

**Work Item handling: example (1/3)**

- A single WIC can initially cover all the following structure:

Transcoder-Free Operation (TrFO)	OoBTC	N1: Adding new codecs
		N4: Codec Negotiation inter MSC
		S2: architecture
		R2: Bearer establishment: UE to RAN
		R3: Bearer establishment: MSC to RNC
	TrFO specification	N4: CN protocol impacts.
		R3: User & Control Plane procedures
		S3: Prevention of user fraud
		S4: Codec list

The level of details this initial WIC provides on BBs and WTs is flexible (it can be only a guess), and can be revised later on if needed.



Work Item handling: example (2/3)

- After some time, the structure might be e.g. covered by 3 WICs: a new one per BB, plus the original one updated to make reference to the new ones

Transcoder-Free Operation (TrFO)	OoBTC	N1: Adding new codecs
		N4: Codec Negotiation inter MSC
		S2: architecture
		R2: Bearer establishment: UE to RAN
	TrFO specification	R3: Bearer establishment: MSC to RNC
		N4: CN protocol impacts.
		R3: User & Control Plane procedures
		S3: Prevention of user fraud
	S4: Codec list	

**Work Item handling: example (3/3)**

- *If really needed*, a WIC can also be provided for (a set of) specific WT(s):

Transcoder-Free Operation (TrFO)	OoBTC	N1: Adding new codecs
		N4: Codec Negotiation inter MSC
		S2: architecture
		R2: Bearer establishment: UE to RAN
		R3: Bearer establishment: MSC to RNC
	TrFO specification	N4: CN protocol impacts.
		R3: User & Control Plane procedures
		S3: Prevention of user fraud
		S4: Codec list

But R3 cannot propose the WIC “User & Control Plane procedures for TrFO” if there is no WIC for the full TrFO Feature.