|  |  |  |  |
| --- | --- | --- | --- |
|  | | | |
| **Title\*:** | Notes on the first draft of the revised ES 201 553 | | |
|  |  | | |
| **from Source\*:** | PQM Consultants | | |
| **Contact:** | Steve Randall | | |
|  |  | | |
| **input for Committee\*:** | MTS | | |
|  |  | | |
| **Contribution For\*:** | Decision |  |  |
|  | Discussion | **X** |  |
|  | Information |  |  |
|  |  | | |
| **Submission date\*:** | 2012-05-08 | | |
|  |  | | |
| **Meeting & Allocation:** | **MTS#56** - Session 6 - Other ongoing work | | |
| **Relevant WI(s), or deliverable(s):** | RES/MTS-202553ed211\_ExTRA | | |
|  | | | |

# First draft of revised ES 201 553, ExTRA/TPLan

## Overview

A first draft of the revised ES 201 553 has been contributed as MTS(12)56-004. It is nowhere near complete and is offered to MTS#56 as an indication of the direction that is planned for the notation by the rapporteur and other contributors. As such, it must be considered to be completely open for discussion and debate.

So far, the main changes to the document from the previous version are as follows:

• Change of the name of the notation from "TPLan" to "ExTRA" (Extensible notation for TPs, Requirements and Assertions);

• Generalization of the text in the document to remove its previous close-coupling with TPs;

• Revision of the predefined keywords to permit the specification of requirements and assertions.

Very little work has been done on the examples which are still, for the most part, oriented towards testing. These will only be updated as the notation matures around requirements and assertions. For the same reasons, the annexes are essentially unchanged.

## Specific modifications

The Scope clause has been modified to extend the use of the notation to include requirements and assertions as well as TPs and to reduce the earlier dependence on ISO 9646-1.

The most significant change to the notation is related to the ability to specify requirements and assertions as well as TPs. A new statement has been added to the main header of an ExTRA specification to identify whether it is a TSS & TPs, requirements or assertions and this can only be set once for each ExTRA specification (i.e., a single ExTRA specification can contain TPs or requirements or assertions and not a combination). Although many of the predefined keywords are generic to all types, certain of them will only be permitted on a per-type basis. For example, the **ensure that** construct can be used in a TSS but not in a requirements specification or in assertions.

Although there has been some effort directed at incorporating the concept of requirements into the early introductory text within the document, there is very little included yet on the concept of assertions. This will be added in the next revision.