



# Tissue process as in place today

On behalf of UCAIug IEC 61850 Testing  
Subcommittee

Rev 1.0





# Tissue process as in place today (2015-07-30)

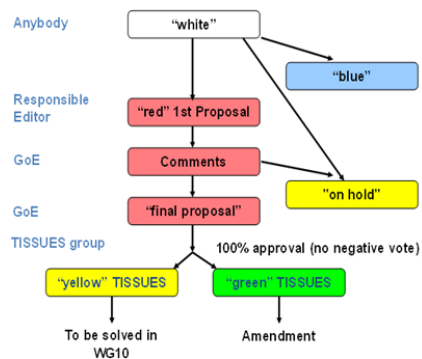
## Scope

- In WG10 the Tissue process, the stages and categories are currently under discussion.
- So the situation will be changed / improved in future.
- The following slides just representing the current situation and the process like in place today.



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## Tissue Stages and Categories



### TISSUES are classified by

- The current **stage** of a TISSUE within the TISSUE process.
- **Categories** used to indicate the impact of the TISSUE resolution on standard documents and implementations.

### During the process of the evaluation of a TISSUE, a TISSUE may have the following stage:

- **White:** A TISSUE has been entered into the database
- **Red:** The TISSUE is under discussion
- **Final proposal:** A proposal for the TISSUE resolution is available and in voting
- **Yellow:** Proposed resolution for the TISSUE has not been 100% approved, will be solved within WG

### On conclusion of the evaluation, the TISSUE will have one of the following stages.

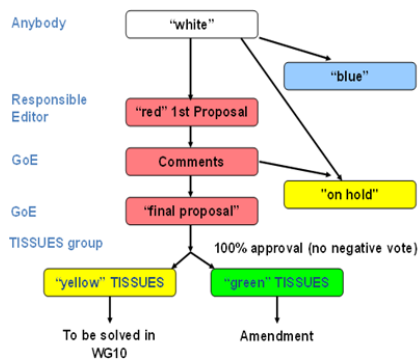
- **Green:** Proposed resolution for TISSUE has been approved
- **on hold:** The issue will not be further discussed as a TISSUE; it will be solved within the future standard development process, most probably for next version (e.g. Edition 3).
- **Blue:** The TISSUE resolution / clarification is obvious, will not result in any change of the standards or it is related to an obvious typo and the TISSUE has not been voted.

NOTE - the main difference between **Blue** and **Green** is that a TISSUE that is **Blue** has not been voted/discussed but a **Green** TISSUE has been voted/discussed.



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## Tissue Stages and Categories



1077	<a href="#">Rename DOnames within LTIM</a>	IntOp2	green
1374	<a href="#">On-blocked Mode &amp; Quality</a>	Ntp	blue
1060	<a href="#">Error in encoding in Figure F.9</a>	Ed2	green
948	<a href="#">Enumeration (string) values format</a>	Ed3	red

### Categories of TISSUES

Categories describe the impact of the TISSUE resolution on standard documents and implementations. The table below provides an overview on the categories. Details are explained in the next chapter.

Category	Description
Ed2	<b>CurRev</b> <i>Issue for edition 2 of this part.</i> If there is no comment in the Tissue resolution the Tissue is applicable for the Current Version of this part (Issue for edition 2 of this part in TISSUE database) the TISSUE is editorial and is applicable immediately.
	<b>NxtRev</b> <i>Issue for edition 2 of this part.</i> If there is a additional comment in the Tissue resolution (e.g. "will be applicable in Edition 2.x"): The TISSUE will be applicable with the next revision of Edition 2 (e.g. Edition 2.1).
<b>Ntp</b>	<b>No impact on this part:</b> The TISSUE does not result in any change of this part.
<b>IntOpX</b>	<b>Intop2 Issue may impact interoperability of implementations of Edition 2</b> (should be "of this revision of Edition 2"): The TISSUE impacts interoperability and will therefore influence conformance testing. The TISSUE resolution is applicable immediately.
Ed3	<b>NxtVer</b> <b>Issue for Edition 3 of this part:</b> The TISSUE will only be handled with Edition 3 (next version) of the standard – it is currently placed on hold and will only be implemented with Edition 3.

NOTE – the category "Issue may impact interoperability of implementations of Edition 1" shall not be used anymore for Edition 2 parts





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## Evaluation of TISSUE by Group of Expert

In an initial phase, the TISSUE is evaluated by the group of experts. A first proposal should be available within two weeks (**stage red or blue**); a final conclusion within four weeks. The evaluation shall terminate with one of the following:

Nature of TISSUE	stage	cat.	impact / characteristic
Question	blue	Ntp	- The resolution of the TISSUE is obvious and does not need a change – it is therefore rather a question than an issue
Typo	blue	Ed2 (CurRev)	- The TISSUE addresses an obvious typo - Standard will be corrected - No technical change / no impact on implementations
Extension	on hold	Ed2 (NxtVer)	- No immediate requirement to solve the TISSUE - The TISSUE addresses long term improvements or extensions with new capabilities that typically have a larger impact and need a careful evaluation of the solution
other	red – final proposal		TISSUE will be voted – see next step





## **Tissue process as in place today** (2015-07-30)

### **Final proposal and voting by TISSUES group**

TISSUES that have not been identified as questions, typo or extension will be voted during a four week period. Votes are taken as "approval by abstain" – if no opposition is raised, the TISSUE is considered to be approved.

The voting starts with the colour "final proposal" and terminates with the stage "green" (approved) or "yellow" (not approved). If yellow, the category will be set to "NxtVer" and a solution will be worked out within the working group.





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## Tissue Stages and Categories

### Implementation of TISSUES

TISSUES with the category “**Ed2**” “**current revision**” (editorial, no remark in the Tissue, e.g. 814) and “**IntOp2**” (e.g. 679) are applicable immediately following approval (stage “green”). That means:

- The conformance test specifications will be updated.  
The Test Procedure Change List (TPCL) will identify which TISSUES are considered within a specific version of the test specification. UCAlug will issue the updated TCPL within a period of 3 months after the Tissue went to “green”.
- Within 12 Months after the release of a new version of the test procedures (TCPL) it becomes mandatory for conformance tests. This provides a grace period for vendors to upgrade their products to meet the most recent updates to the standards and the approved Tissues. A vendor has to supply a list, which TISSUES are implemented (TICS).

TISSUES with the category “**Ed2**” “**next revision**” (remark in the Tissue, e.g. 692) are only applicable once the next revision of the standard is published. That means:

- The conformance test specification of the next revision will include these TISSUE resolutions and will be ready with the publication of the revision (e.g. Edition 2.1).
- These TISSUES may only be implemented in products that claim to be conform to that next revision.

TISSUES with the category “**Ed3**” (next version, e.g. 1329) are only applicable once the next version of the standard is published. That means:

- The conformance test specification of the next version will include these TISSUE resolutions and will be ready with the publication of the version (Edition 3).
- These TISSUES may only be implemented in products that conform to that next version.

