# Editor's Questions and assumptions re: The IEC/IEEE 60802 TSN Profile for Industrial Automation 

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## Editor's Assumptions

- Document Format: The IEC format will be adopted.
- Some accommodations to the format may be required to meet IEEE guidelines
- Document Editor will be Microsoft Word, not Framemaker
- The IEEE balloting process will be used. The IEEE process:
- requires ballot statistics for each ballot,
- has semi-automated tools for constructing the statistics,
- has tools for systematically reviewing and resolving each comment,
- lots of support for the editor to draw upon.


## Editor's Assumptions

- IEC comment submission:

| $\begin{aligned} & \mathrm{MB} / \\ & \mathrm{NC}^{1} \end{aligned}$ | Page number | Clause/ Subclause | Par/Fig/ Table/ | Type | Comments | Proposed change | Observation secretariat |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

- IEEE comment submission ( available at /private/commenting-tool/MyBallot-tools ):

Task Force Review and Working Group Ballot comment input form

| First name |  | Surname | Affiliation | Phone |
| :---: | :---: | :---: | :---: | :---: |
| Click on column headers for help |  |  |  |  |
| Category Page | Sub-clause Line \# | Comment | Proposed Change | Must Be Satisfied |

- The forms are quite similar; however, use of the IEC template will place the burden on the editor to copy and paste comments from the IEC template to the IEEE template


## Terminology

| Term | IEEE Definition | IEC Definition |
| :--- | :--- | :--- |
| Shall | is required to | is required to |
| should | is recommended that | it is recommended that |
| may | "may" means "is permitted to," and hence, "may" <br> and "may not" mean precisely the same thing | is permitted |
| can | can is used for statements of possibility and <br> capability, whether material, physical, or causal <br> (can equals is able to) | Possibility and capability - is able to |
| must | must is deprecated and shall not be used when <br> stating mandatory requirements; must is used only <br> to describe unavoidable situations | external constraint or obligation on the user of the <br> document, typically due to one or more legal <br> requirements or laws of nature, that is not stated <br> as provision of the standard. Use of the word <br> "must" does not imply that the external constraint <br> referred to is a requirement of the document. |

## Format of Terminology is almost identical.

## Terminology

- Document formats are similar.
- "Front matter" content will need to be worked out.
- Clause numbers in IEEE seem to be a "best practices" approach rather than formally declared in the style guide.
- Where do the conformance clause (clause 5) and PICS proforma reside?

| IEC Major subdivision | Mandatory/Optional/Conditional | IEEE Major subdivision | Mandatory/Optional/Conditional |
| :--- | :--- | :--- | :--- |
| Title | Mandatory | Title | Mandatory |
|  |  | Draft copyright statements | Mandatory |
|  |  | Permissions list | Conditional |
|  |  | Abstract and keywords | Optional |
|  |  | Committee lists | Mandatory |
|  |  | Acknowledgments | Conditional |
| ToC | Optional | ToC | Optional |
| Foreword | Mandatory | Optional/Conditional | Introduction |
| Introduction | Mandatory | Scope |  |
| Scope |  | Purpose | Mandatory |
|  | Mandatory | Defmative references | Mandatory |
| Normative references | Mandatory | Acronyms and abbreviations | Optional |
| Terms and definitions | Conditional | Mandatory |  |
| Symbols and abbreviated terms | Mody of an IEEE Standard | Mandatory |  |
| Technical content <br> For example: test methods | Mandatory/Optional/Conditional | Mandatory/Optional/Conditional |  |
| Annexes | Optional | Annexes | Optional |
| Bibliography | Conditional | Bibliography | Conditional |

Analysis based upon ISO/IEC Directives, Part 2, Edition 7.0, 201605, 2014 IEEE-SA Standards Style Manual and IEEE-SA Standards Board Operations Manual, June 2018

## Project Scope

- Scope: This standard defines time-sensitive networking profiles for industrial automation. The profiles select features, options, configurations, defaults, protocols, and procedures of bridges, end stations, and LANs to build industrial automation networks.


## Compatibility levels

- Interchangeability, Interoperability, Interworkability, are typically outside of the scope of IEEE 802.3 and mostly outside of IEEE 802.1
- Coexistence and interconnectability is the scope of the IEC/IEEE 60802.
http://www.ieee802.org/1/files/public/docs2018/60802 -Winkel-Principles-of-Standards-0518-v0.pdf


## Questions

- Where will the content we've already created reside? There's lots of good content that we don't want to lose.
- Appendices?
- Separate IEC and IEEE documents?
- Where are outstanding issues to be recorded?
- IEEE generally creates an Annex $Z$, is there a similar approach in IEC?
- Who needs to be involved in the establishment of the "front matter" (boilerplate)?

Thank you

