On Standardization Process of 802.19.1

Date: 01/2010

Authors:

Name	Company	Address	Phone	E-mail
Tuncer Baykas	**NICT**	Yokosuka Japan		**tbaykas@ieee.org**
M.Azizur Rahman	NICT	--		
Stanislav Filin	NICT	--		
Zhou Lan	NICT	--		
Junyi Wang	NICT	--		
Yohannes Alemseged	NICT	--		
Chin Sean Sum	NICT	--		
Gabriel Villardi	NICT	--		
Junyi Song	NICT	--		
Chen Sun	NICT	--		
Ha Nguyen Tran	NICT	--		
Hiroshi Harada	NICT	--		

Abstract

- This contribution discuss an option on the 802.19.1 standardization process.

802.19.1

- 802.19.1 is special among standards in 802 family.

    - It is not a MAC/PHY standard.

    - Its success depends on extra value it can provide to other standards in TVWS.

    - It does not have a ready consumer base.

- As a result, it should be finished in a timely manner.

- Group should use full potential of teleconferences and only focus on documents which are required for the completion of the standard.

- Group should reduce number of technical motions.

Possible Documents before Proposals

- **Terminology**
  - An evolving document, which gives definitions of terms used in 802.19.1 related documents. This document can be added in front of standard.

- **Functional Requirements**
  - A list of mandatory and optional features, performances and behaviors of the standard. These requirements shall be consistent with the PAR and the 5 Criteria.

- **Architecture**
  - A framework for the specification of a system entities and their functional organization and configuration, operational principles and procedures.

- **Evaluation Criteria**
  - A set of conditions for compliance to the functional requirements, comparison criteria, simulation scenarios, and metrics by which proposals shall be compared.
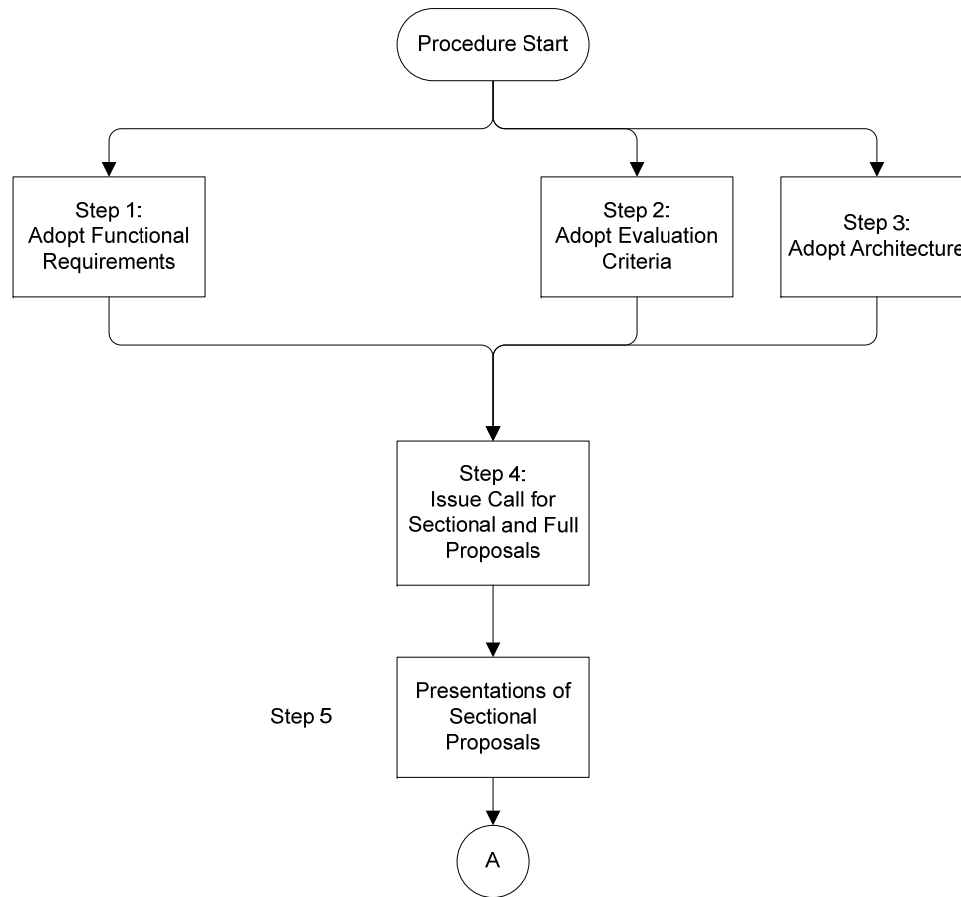
Possible Documents after Call for Proposals

- **Sectional Proposal**
  - Presentation about parts of architecture, concepts, and algorithms that may be in Powerpoint form.
- **Full Proposal**
  - A proposal that meets all three of the following requirements shall be designated by the task group as a Full Proposal:
    - Satisfies the PAR, designed according to Architecture, meets all of the Functional Requirements and addresses all of the requirements of the Evaluation Methodology
    - Includes a document in Microsoft Word format that contains a technical specification
    - Discloses how the Functional Requirements and requirements of the Evaluation Methodology are met by the technical specification.
  - A proposal shall not be defined as a Full Proposal if at least one of these requirements is not met.
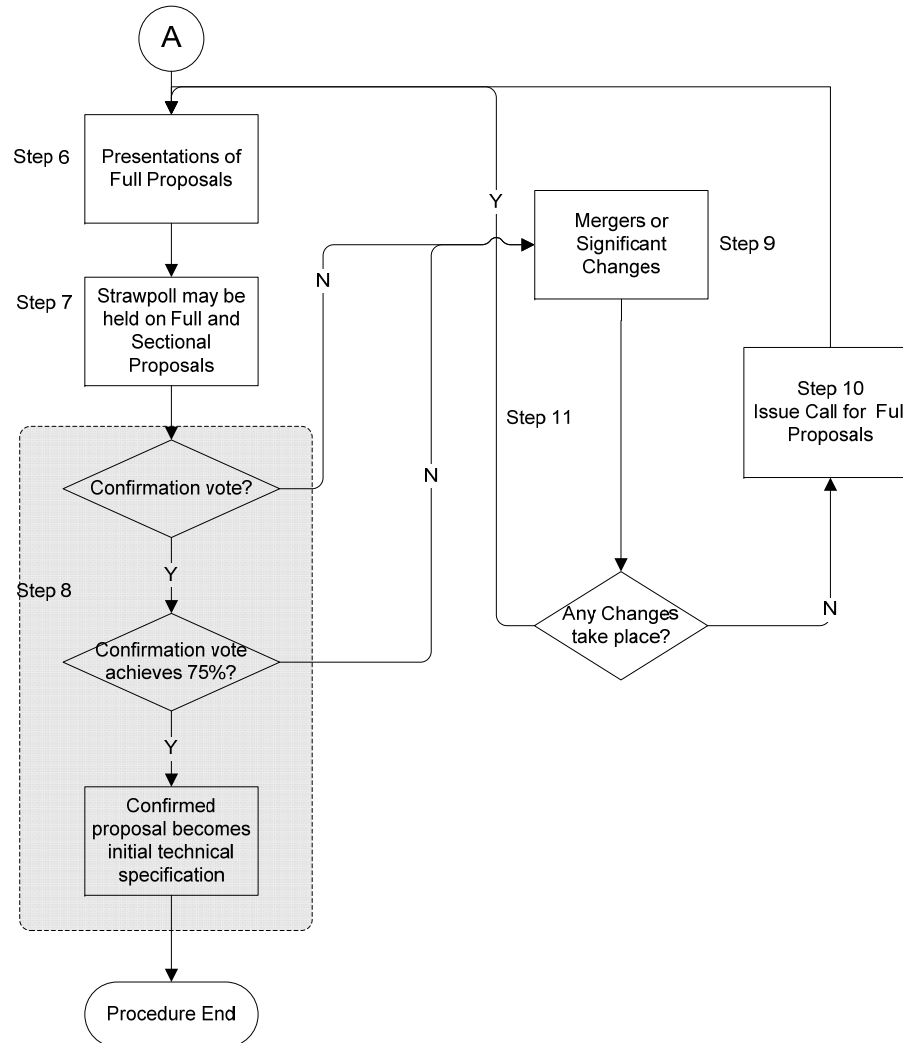
Standardization Process

- The Group should decide on documents, which guides the process first.
- Functional requirements, Evaluation Criteria and Architecture should be prepared by subgroups or selected from contributions.
- Terminology document should be provided so that proposals will have a common language.
- After deciding on the Architecture. Call for sectional and full proposals should be issued.
- Sectional proposals should be presented before full proposals. Strawpolls can be held to see possible support for each proposal.
- If a Full Proposal gets enough support from the group, it will be selected as the first draft of the standard and letterballoting inside the group can start.

Standardization Process

Standardization Process

Conclusions

We presented a 802.19.1 standardization process. Process has below major advantages.

- It provides 3 important documents to guide the group.
- It requires only 4 confirmation steps up to letter balloting.
- It enables contributors to merge and alter their proposals to obtain support from the group.