Technical Committee Formation proposal form

**Outline for proposed formation of a new Technical Committee under GISFI**

**Title of Proposed Technical Committee** (the title replaces this heading)

**TESTING**.

**テスティング**

1Technology Description of the proposed technical committee

\*Provide an overall general description of the situation or problem which is proposed to setup a new technical committee on a specific Technology area, not yet covered in the existing technology specific technical committees. The existing technical committees are spectrum,

Testing is one of the most important methods to confirm and secure the quality of products and system particularly for Information and Communication Technology (ICT).For instance, manufacturers in Japan spend of billions of dollars to recall products released to the market because of critical failure. This failure should have been detected before product release. Similar cases occur all over the world.In order to avoid such incident in India, “testing” must be taken as focussed topic for discussion.

The word of “testing” covers very wide range, from one module in specific Software (S/W) to hole in huge system containing both Hardware (H/W) and S/W. Categories of products also add to the variety of testing required. It is thus obvious that testing is required for all technical activities of GISFI.

The “testing” technical committee will perform the following tasks:

1. Survey and study testing needs for ICT in India.

2. Prioritize wide range testing categories identified in step 1. (Interoperability test(IOT), Security test, Acceptance test, etc.,)

3. Clarify Indian requirement for testing based on prioritized items under 2.

4. Develop testing solutions (Test Standard for India)

5 Develop solutions in collaboration with other working groups in GISFI

6. Perform gap analysis on standards developed by other standardization bodies such as IEEE, ISO, and etc.

7. Bring GISFI solutions (Test Standards) to other (international or domestic) standardization bodies where necessary.

8. Work with Indian government departments.

2 Need for forming a new technical committee in GISFI

*The need should clearly mention the following:*

1. *Is the study not being done in other standardization organization?*

ISO, IEEE and other organization have addressed testing standards since long. They focus on the S/W quality, testing standard documentation and etc.

“Quality” could be considered from two different points of view. First is that quality is systematically classified functional/non-functional (requirements) defined by IEEE. Another is that quality is measured by degree of consumer satisfaction (requirement quality).

With regard to the latter methodology, its quality must be discussed depending on nation/area, product class, system design etc. No organization has developed standards from such point of view. Especially in India, there is no quality standards and thus GISFI should develop such standards.

Perform threat analysis on systems under consideration and technologies being developed by GISFI

1. *Does India has specific requirements on this technology area which are different than other countries/region*

As described above (see 2-1), no organization develops quality standard for India and none have considered Indian requirements, thus GISFI must start a group on testing.

Particularly in India, same as in European, U.S. or Japan, large number of information devices such as mobile phones, network devices connect with each other by wire and wireless. It already goes beyond the limit of testing of the product alone. In terms of connecting to other products available in the market, it becomes imperative to perform interoperability testing (IOT).

Regarding IOT, connecting standard would be local standard, or dependent on its environment. Thus GISFI should develop Indian standard and merge it into International Standard.

1. *Are other international standardization organizations are not addressing India specific needs*

As described above 2-1, no organizations develops quality standard for India or considers Indian requirements in their specification.

1. *Is it relevant to any other Standardization organization in India or outside*

As described above in 2-1, no organization develops quality standard for India or considers Indian requirements in specification development. Test Standard must be developed by GISFI and brought to other international standardization organizations where necessary.

3 Proposed scope of Study under proposed technical committee

*Proposer should clearly define what exact portion of the technology or aspects are to be studied under the proposed Technical Committee. The proposer should consider and specific mention the following :*

* *existing standards,*
* *standardization work known to be progressing in other relevant standardization organizations*
* *fully or partly unaddressed requirements*
* *India specific requirements*
* *Any other important aspect…*

Objectives are described above under 1. The group will develop Test Standard (Indian requirement) for all topics/groups in GISFI that requires testing standard. Topics that are only testing related will be added on need basis.

Additional topics are given below. For these topics we will look at fulfilment of requirements from Indian perspective, issues being faced by Indian market (consumers and operators in India) and solutions for those issues. The topics are:

* General embedded system (hard to S/W update)
* Interoperability Testing
* Security Testing

4 Expected output

\*Proposer should provide a detailed description of the expected output of the work. It should define the type of GISFI document output. The visualized types of the GSFI documents are:

* Technical report
* Technical Specification
* Technical Handbook or Guideline
* *Any other type proposed ( with specific reason)*

*Outline and the detailed scope of each output document is required to be proposed. Technical specification level as Stage1, Stage2, Stage3 (as prevailing in ETSI/3GPP Technical specifications) for requirements, System Architecture and detailed Interface details respectively may be mentioned.*

Output of the group will be in the following forms:

* Recommendations: government, society, vendors, service provider and operators
* Technical report: showing ways a given technical solution can be solved
* Technical specifications: giving precise specs for implementation
* Handbooks: explaining in concise format and simple terms the specifications / recommendations and their usage
* Guidelines: on usage of any of the above

4 Timing

\* Indicate the required timing, noting that the urgency of the output will influence both the method used to carry out the study, and the depth and breadth of the study.

5 Proposers/sponsors

\* Identify by organization and contact point those proposing and supporting the formation of new technical Committee.

Veriserve Corporation.
GIOT Corporation

6 Sources of input

\* Indicate what types of organizations are expected to provide contributions to further the work\* Also include any other information, including potentially useful resources, that will be helpful to those responsible for carrying out the study.

All participants of GISFI:

* Operators
* Governments
* Vendors / manufacturers
* Academia
* Students

7 Target audience

\* Indicate expected types of target audience, by noting all relevant points on the matrix which follows:

|  |  |  |
| --- | --- | --- |
|  | Developed countries | Developing countries |
| Telecom policy-makers | √ | √ |
| Telecom regulators | √ | √ |
| Service providers/operators | √ | √ |
| Manufacturers | √ | √ |

*Where appropriate, please provide explanatory notes as to why certain matrix points were included or excluded.*

Any country that will use GISFI specification will require Testing Standard therefore activity of the proposed group is valuable for all countries and everyone in the value-chain.

a) Target audience – Who specifically will use the output

\* Indicate as precisely as possible which individuals/groups/regions within the target organizations will use the output.

Given in above table

b) Proposed methods for the implementation of the results

\* In the originator's opinion, how should the results of this work best be distributed to and used by the target audience.

Thoughts are discussed below, these are valid for any GISFI activity:

* Bring to other standardization bodies, through GISFI members attending the given standardization body, where needed and approve the result of these standardization bodies in GISFI
* Enforcement of adoption of GISFI standards in India by government approval, participation of industry in creating the standards
* Making the standards available for free to all
* Getting the whole Indian value chain involved in specification creation

8 Proposed methods of handling the technical committee

a) How?

\* Indicate the suggested handling of the proposed study

*1) Within technical committee:*

*2) Within Organization*

*3) Outside organization*

Same way as any other technical group will be handled in GISFI

b) Why?

\* Explain why you selected the alternative under a) above

Not applicable

9 Coordination

\* Include, inter alia, the requirements for coordination of the technical committee with:

* External Organizations

Some company or representation might be required. Details to be discussed within GISFI

10 Other relevant information

\* *Include any other information that will be helpful in establishing how this new technical committee should function*