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| **Title:** | Minute of Meeting GISFI-FRN Working Group  |
| **Source:**  | Krishna Sirohi |
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| **Purpose:** | Minute of Meeting GISFI-FRN Working Group  |
| **Doc number:** | GISFI\_FRN\_201204203 |
| **Meeting:** | GISFI#8, Patna, India, 26th -28th March, 2012 |

The Future Radio Network (FRN) Working Group (WG) of GISFI 8th Standardization Series Meeting (SSM) was commenced at 2:45 pm on Tuesday March 27, 2012. The chair Krishna Sirohi called the meeting to order and conducted the meeting with presenting the document GISFI\_FRN\_201203184 GISFI-FRN: Management Plan Document of GISFI-Future Radio Network working Group [R2.0] that is a working document capturing progress.

1. Scope of FRN Standardization and Study was discussed and reinforced by the meeting.
2. Question on “Sustainable Rural Telecommunication Infrastructure”
	1. The chair highlighted the collaboration with National Working Group (NWG)-5 of DoT(TEC) and Indian leadership in ITU-T on this study. More active participation from TEC in GISFI FRN activities was intended.
	2. Current status on the approved work items are:
		* 1. GISFI Meeting # 6 Approved (besides editorial refinements) the first deliverable on the Work Item: **GISFI-FRN: Rural System Challenges** [Documen**t GISFI-FRN-201109115]**
			2. GISFI Meeting #6 approved the initial contribution on the 2nd Work Item ie **GISFI-FRN: Rural System Requirements [Document GISFI-FRN-201109114].** Further contributions are expected on this work item.
			3. Contributions are invited to start Work Item: **GISFI-FRN: Rural System Handbook, GISFI-FRN: Rural System Survey and GISFI-FRN: Rural System Climatic Change & Resilience to Disaster**
3. NEC requested that the already adopted question on Femto Cell Sharing be retained as they are planning to bring input into that question in the future. Meeting decided to retain the question and expected contributions in future meetings.
4. On the question of any study work item which could be in dormant state due to lack of contributions, Mini Vasudevan (Ericsson) requested a generic procedure to deal such situations in any of the Working Group. She suggested that such work items should be dropped from the active work item list if there is no activity for consecutive two or three meetings without sufficient justification for inactivity . The proposal was accepted by the meeting which is applicable for all the Working groups and put up for final approval by all in the closing meeting.
5. Meeting was informed that the already approved Technical report on the state of Standardization in 3GPP for the network sharing based on GERAN (GSM/EDGE) Networks [Document GISFI-FRN-201109112] will be published (after some editorial refinements)and to be formally circulated to the intended external organizations like TEC/DoT/TRAI.
6. Meeting decided that the EM Radiation question will be retained at present with an attempt to invite the team from Auroville who posed the question and encourage them to join the membership and contribute on this topic.
7. **Meeting discussed the methods to proceed on the Work Item on IMT-Advanced UE Characterization for the e**volution of national standards to ensure technical, security and regulatory conformance. Future interaction with TEC is planned to evolve a suitable model to proceed on this important work item.
8. **Meeting decided to transfer the work item IMT-Advanced specific network security**
9. **Meeting also decided to transfer the work item on IMT-Advanced Quality of Service.**
10. **Meeting decided to continue the work on**
	1. IMT-A Access Techniques: Identification and consolidation of the relevant technical characteristics/mechanisms, in Indian deployment context, covering the evolving access methods in IMT-A systems as per ITU-R and 3GPP standards. These mechanism include :
		* Relays
		* Femto/Pico Cells
		* Self Organizing capability
		* Self Configuring Capability
		* Self Optimizing Capability
		* Frequency (Spectrum) Management
			+ Dedicated Frequency or selectively chosen
			+ Secondary Transmission capability based on Cognitive Radio concepts
			+ Licensed or Unlicensed spectrum
		* Heterogeneous Access network: Multi-Radio Technology deployment in Macro (Umbrella Large ) Cell (based on GSM/Edge/3G) and Micro (Small) Cell (based on GSM/Edge, WiFi (IEEE802.11n), LTE-Advanced) with seamless handovers between Macro and Micro cells based on different radio technology.
	2. **IMT-A Deployment Models with legacy 2G/3G Systems:** Evolution & Definition of various suitable deployment architectures in Indian context (especially rural) for adopting IMT-Advanced Access technology in collaborative fashion with the existing 2G/3G Mobile networks. Such definition of deployment models will become useful guideline for new technology adoption as well as will lead to assessment of  **specific requirements on account of the spectrum usage, power consumption requirements , EM radiation, Cost (CAPEX and OPEX) and the potential Return on Investment**. Therefore it will become necessary data for the **evolution of suitable policies** on every such account of importance and will ensure “Sustainable IMT-A telecom infrastructure in Rural India”.
11. Meeting decided to retain Study work Items on
	1. Cognitive Radio(CR) based Systems
	2. Collaborative Networks
12. Meeting decided to drop the Study Work Items on:
	1. Access technology for M-M Communications
	2. Access Technology for Intelligent Transport Systems

These topics were proposed by the research interest group and is intended to taken up again when there are significant contributions in future.

1. The chair next presented the Summary of GISFI and ARIB/TTC joint meeting contributions and activities. The GISFI presentation was shared with the membership for the information and also to receive membership feedback on the standardization strategy as adopted by GISFI in general and FRN WG in particular.
2. Finally, the chair proposed the appointment of the new chair for this working group - Mr. Rakesh Agarwal (VNL) and along with that, the interaction with ITU-T SG5  on the sustainable rural infrastructure would also be transferred to the new leadership. Proposal was approved by the meeting and accepted by Mr. Rakesh Agrawal. Appointment of Mr. Rakesh Agrawal as Chair of FRN WG was also approved by the closing plenary.
3. The GISFI membership thanked the FRN chair Mr. Krishna Sirohi for his work and welcomed the new chair Mr. Rakesh Agarwal.