



## MEETING MINUTES for Saudi Arabia IPv6 Task Force 3<sup>rd</sup> Meeting

<b>Date of Meeting:</b>	18/Nov/2008
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### 1. Purpose of Meeting

- Present a vendor's point of view and case studies on IPv6 (Cisco and Devoteam)
- Present the latest changes in IPv4 Address Policy Management, IPv6 Policies, IPv6 Global Deployment Status
- Present the IPv6 Strategy for Saudi Arabia and discuss it with the IPv6 Task Force Members

### 2. Attendees

#### Al Khozama Hotel, Orchid Room

Name	Company	Name	Company
Nasser Albaker	CITC	Masood Husain Al-qahtani	STC
Ibraheem Alfuraih	CITC	Ashraf Sattar	STC
Majed Al-Amry	CITC	Saleh R. Al-Jediea	STC
Abdullah Alfalag	CITC	Haiyan Alsaiyed	Devoteam
Ali Alnasser	CITC	Adimi Djamel	Devoteam
Ayman Alnasser	CITC	Bilal Mousa	Devoteam
Sulaiman Mirdad	CITC	Faadil Adam	Cisco
Abdelfattah Abuqayyas	CITC	Ibrahim Alateeq	KACST/ISU
Raed Al-fayez	CITC	Mohammad Alarifi	KACST/ISU
Zyad Alkhwaiter	CITC	Ebrahim Khalil	Atheeb
Yousef Akeel	STC	Nasser Alyami	ITC
Khaled Altwergi	STC	Mohammad Azmathullah	ITC

### 3. Meeting Agenda

- Cisco presentation "IPv6 Development and Case Study"
- Devoteam presentaiton "Present the latest changes in IPv4 Address Policy Management, IPv6 Policies, IPv6 Global Deployment Status, IPv6 Case Study"
- Break
- Present the IPv6 Strategy for Saudi Arabia and discuss it with the IPv6 Task Force Members
- Lunch

## 4. Meeting Notes, Decisions and Issues

- Dr. Sulaiman Mirdad (SM) and Dr. Ibraheem Al Furaih (IF) from CITC welcomed the attendees to the 3<sup>rd</sup> IPv6 Task Force meeting. Dr. IF gave a brief about the meeting objectives and its agenda
- Fadil Adam (FA) from Cisco presented "IPv6 Development and Case Study"
- During the presentation, Dr. Abdelfattah Abou Qayyas (AAQ) from CITC asked when Internet Networks might be running only on IPv6. FA answered that IPv4 and IPv6 will coexist for the coming future and it is very hard to predict when internet might be completely running on IPv6 only
- Dr. AAQ asked about the IPv6 standardization process and how important it is in speeding up the adoption of IPv6 worldwide as well as the ITU work in IPv6 in particular. Gert Doring (GD) from Devoteam answered that most of the work on IPv6 standardization is being done by the IETF. GD also stated that most of the standardization work has already been done.
- Mr. Kahled Al Twergi (KAT) from STC asked if any IP Version 5 (IPv5) was ever developed before IPv6. GD informed that IPv5 never materialized and was abandoned.
- KAT asked if applications are regarded as a main obstacle in IPv6 deployment and implementation. FA answered that applications do not constitute such a major obstacle and that applications are one of the impacted areas among many others. Majed Al Amri (MA) from CITC contributed by highlighting how some applications and other services may face issues during the IPv6 adoption such as Billing and Internet Filtering and NMS systems.
- Dr. SM stated that the IPv4 exhaustion problem could somehow be analogous to the Y2K problem
- Gert Doring (GD) presented the "Recent Developments in IPv4 and IPv6" in which the following were addressed:
  - Address Distribution Hierarchy
  - IPv4 Global Pool Status
  - Recent Changes to RIPE NCC IPv4 Policies
  - Ongoing IPv4 Policy Work at RIPE NCC
  - IPv6 Policies in the RIPE Region
  - Global IPv6 Deployment Status
  - SpaceNet: A Case Study for IPv6 Roll-Out at an ISP
- Dr. IF asked if RIPE NCC monitors the level of IPv4 utilization. GD stated that RIPE NCC does not monitor the actual utilization levels but RIPE NCC does ask for documentation in regards to the usage of the previous address block allocation to allocate a new address space block for a requesting LIR.
- Dr. IF presented the "IPv6 Strategy for Saudi Arabia" which consisted of infrastructure and awareness tracks, each with a set of five (5) initiatives. The strategy tracks aim at achieving a set of seven (7) milestones for which the timeline was also presented.
- Yousef Akeel (YA) from STC asked about any CITC plans to help FBPs in funding the IPv6 adoption effort. Dr. SM clarified that CITC cannot afford funding such a task and that it will be the service providers' responsibility to bear the costs of upgrading their networks to IPv6 so as to sustain the growth of the internet and secure their business activities. YA asked if Yesser program could financially help. Dr. SM answered that Yesser will not financially help either.
- Ebrahim Khalil (EK) from Atheeb asked if any incentives could be given to further promote the adoption of IPv6. Dr. SM answered that CITC would be happy to consider offering incentives
- Dr. IF asked for suggestions and opinions about the right time to invite ISPs to the regular IPv6 Task Force Meetings and whether they should attend the next meeting planned for January 2009.
- Dr. SM opinionated that ISPs can join the IPv6 TF activities after having something tangible such as having one of the FBPs ready for IPv6. He also stated the importance of communicating the necessity of IPv6 within their organizations and to their management and decision making personnel to create a sense of urgency to start adopting IPv6
- Dr. IF addressed the incentives point question raised before again by stating that incentives such as a certificate given as recognition to the first FBP that adopts IPv6 is one of the ideas that might be considered

- KAT of STC stated that currently there is no market demand for services that run on top of IPv6. Dr. SM highlighted the importance of approaching major industry stakeholders and enterprises (banking, oil) and explain the importance of adopting IPv6 and the looming IPv4 exhaustion to create the demand in the market
  - Haiyan Alsaiyed (HS) from Devoteam addressed the training initiative of the Awareness Track and explained that the IPv6 Task Force will approach the academic sector (colleges, universities), ICT training centers and other stakeholders to stress the importance of training their internetworking personnel on IPv6 in order to establish the required skills needed to run IPv6 networks
  - YA from STC proposed funding elements to be included within the strategy's initiatives. Dr. IF stated that the IPv6 Benchmark Study did not reveal important funding initiatives by regulators or similar bodies in regards to IPv6. Bilal Moussa (BM) from Devoteam reiterated this idea by stating that the benchmark study only showed minimal financial incentives and not overall funding initiatives.
  - HS from Devoteam stated the possibility of having the IPv6 test lab ready and installed by late November/early December.
  - Zyad M. AL Khwaiter (ZAK) from CITC noted that the first milestone is not stated in a clear way. Dr. IF explained that the first milestone of having one FBP ready by early 2009 pertains to the readiness of basic IPv6 connectivity and ability of regular ISPs to connect. (ZAK) proposed wording and milestones to be more specific and clearer in terms of scope. GD further explained that the idea and extent of the first milestone as DR. IF explained is to have something tangible to present to other ISPs in the form of basic connectivity. Dr. IF stated that the 1<sup>st</sup> milestone's wording and presentation will be revised to present a clearer and well identified objective.
  - Ibrahim Alateeq (IA) from KACST proposed that the dates of milestones to be set and defined. Dr. SM suggested FBPs to start committing to particular dates for achieving the milestones. Dr. SM also stated that the current dates of the milestones as they stand should be reviewed by FBPs and get back with feedback on their achievability and proposed different dates if deemed not achievable at the current dates. Dr. IF reiterated the idea of rewarding the first FBP to achieve the first milestone of basic connectivity.
  - KAT from STC stated that STC proposed to connect their R&D facility with the IPv6 Lab in the previous 2<sup>nd</sup> task force meeting. Dr. IF welcomed the idea again and that STC's suggestions are welcomed on their plans in this regards.
  - Dr. IF asked STC about their IPv6 activities and utilization of the IPv6 block that has been allocated to STC back in 2003. KAT from STC answered that the main usage of the IPv6 block so far is internal for R&D purposes.
  - Dr. IF proposed to undertake the 4<sup>th</sup> Task Force meeting in January 2009. Dr. IF asked members for further suggestions and/or amendments to the preliminary agenda of the 4<sup>th</sup> TF Meeting:
    - Technical Presentation
    - FBPs to present 5 minutes updates on their IPv6 activities
    - Discussions – Q&A
- All members agreed with the proposed agenda and date. Dr. IF asked for sponsorship volunteers for the meeting.
- Dr. IF announced that guidelines to connect to the IPv6 Test Lab will be ready and presented in the 4<sup>th</sup> TF Meeting.
  - Dr. IF suggested the creation of a Task Force mailing list to enhance communication between members.
  - ZAK from CITC suggested the idea of having a technical personnel from a NOC who has previously been involved in deploying IPv6 to present his experience, challenges, risks and other tasks performed in such a project
  - Dr. IF announced that a press release on the latest and future IPv6 Task Force activities and meetings will be released soon.
  - KAT from STC asked if CITC will consider regulatory incentives to promote IPv6. Dr. SM stated that CITC will be ready for such regulatory incentives but it is expected from FBPs to present specific suggestions.
  - Nasser Albakr (NB) from CITC stated that the decision to implement IPv6 is strictly owned by FBPs and stakeholders in general. CITC is not enforcing the adoption of IPv6 and its role will be that of a promoter only. NB stated that FBPs and other stakeholders should study their needs and anticipate the effects, impacts and risks on their business activities in case they decide not to opt for IPv6.
  - FA from Cisco announced that Cisco is currently involved in a project to connect schools via a network and that the project will be IPv6 compliant. Dr. IF stated that it would be very beneficial if such a network supports IPv6 from the start.

- Dr. IF reiterated that in the next task force meeting in January 2009 (4<sup>th</sup> meeting), it will be decided which new stakeholders (and when) will join the IPv6 Task Force and participate in its future activities and efforts.
- Dr. IF closed the meeting by thanking all the members for their time and presence in the event.

**5. Action Items** *(add rows as necessary)*

<i>Action</i>	<i>Assigned to</i>	<i>Due Date</i>
Awaiting STC feedback on the idea of sponsoring the IPv6 in universities. This will include the idea of hosting the IPv6 Test Lab in KSU	STC	Prior to the next Task Force Meeting
Awaiting feedback from all Task Force members on the proposed strategy and its initiatives	All	Prior to the next Task Force Meeting
CITC to send the proposed agenda for the national IPv6 event expected in Jan 2009	CITC	Prior to the next Task Force Meeting

**6. Next Meeting (agenda, location and date will be confirmed)**

<i>Date: Jan 2009</i>	<i>TBD</i>	<i>Time:</i>	<i>TBD</i>	<i>Location:</i>	<i>TBD</i>
<i>Agenda:</i>	<ul style="list-style-type: none"> <li>○ Technical Presentation</li> <li>○ FBPs to present 5 minutes updates on their IPv6 activities</li> <li>○ Discussions – Q&amp;A</li> </ul>				