Collaborating for an IP future

i3forum 1st Technical Workshop

Warsaw – June 15-16, 2010

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What the Future has in store for us...

Multiple pressures to transition to IP - **IT IS HAPPENING**!

- Technology
    - Renewal of network equipment (TDM end-of-life)
    - Capacity management
    - Vendors' strategies and roadmap

- Economics
    - Cost reduction (Opex, Capex)
    - Agility / risk management
    - Green

- Business
    - New retail products and services in a convergent environment
    - Wholesale Customer requirements
    - Strategy of peers & competitors

Together we need to shape that Future !!

- The sooner the Industry gets to the "other side", the sooner we can all reap the benefits of an all-IP world

- When and how to move from a world that <u>works</u> to an IP New World?
  - Not always "plug and play"
  - Not automatic continuation of existing interconnection business models
  - We are discovering unintended consequences of earlier standards decisions

- Many questions, few answers…
  - What technology decisions should I make?
  - What should I invest in and when? Will it work with other carriers?
  - What happens to my existing business? Where are the new opportunities?
  - What about Quality? And Security?
  - Do I need to re-invent the wheel with all my partners?

- That's where we step in - Carriers Interconnects are KEY to end-to-end service!
  - i3forum develops recommendations for an industry-wide transition of voice and other services to IP

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A brief history of the i3forum – a huge success!

- Founded in 2007, went public at ITW 2008 with 8 members

- Now 37 carriers from all over serving 1.5+ billion people in 100+ countries

- Together we carry 80% of the world's Int'l voice traffic

- Focus : International Interconnections... and fuelling domestic talks

- Mission : Making it easier for all carriers to transition to an all-IP world

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Pragmatic, down to earth, open approach

- Carriers working for the benefit of the industry

- Concrete, Focused and Fast-Paced

- Open, forward looking, relevant to all players
  - no One Size Fits All

- i3forum is not a standardization body,

- i3forum is not a commercial alliance

- i3forum liaises with other industry bodies
  - including GSMA, SIPForum, 3GPP, MSF, ETSI, IETF…

- i3forum is not incorporated,
  - no fees required to join – just work ;-)

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Good for Members, Even Better for All Carriers

- Understand benefits of IP-based intercos, E2E service delivery
  - and options to get there

- i3forum work focuses on the international space
  - Its work is applicable to national intercos, for both fixed and mobile

- Ensure efficient use of resources to deliver better intercos
  - Codec options and trans-coding impact call quality bandwidth usage
  - i3forum's intercos design and testing allows selection from the many options in the IP technology standards and streamlines tests

- Open environment makes security more complex
  - Ensure the integrity of end to end service
  - Prevent fraudulent use of resources

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We have delivered in 2008 and 2009 ...

- All our deliverables are 100% public, please visit **www.i3forum.org**

- Pragmatic recommendations for the benefit of the industry
  - Business topics
  - Technology topics
  - Operational topics

- Migrating TDM Voice (Bilateral, Hubbing) and related services (Fax…)
  - Service definitions, SLA material
  - Interconnection models (private and public, including over the Internet)
  - Recommendations on Signalling (SIP and SIP-I), Codecs, Security, QoS
  - Management of Early Media, Ring Back Tones, ISDN and Fax services
  - Templates for Interconnection Form and Interoperability Test Plan

- Early work with GSMA on Voice over IPX

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… we deliver again this year! visit www.i3forum.org

- **More on Voice**
  - ❖ Wideband and Low Bit Rate codecs : more recommendations
  - ❖ Signalling (ISUP <=> SIP, SIP-I Release cause issues)
  - ❖ Quality of service management (based on Border Functions)
  - ❖ Fax over IP (working with SIP Forum, to be delivered next September)

- **Voice over IPX**
  - ❖ Building on a solid cooperation with the GSMA
  - ❖ Change Requests to the IPX AA80 to be approved by IWG in June

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… and again!   visit www.i3forum.org

- Routing & Addressing (ENUM) white papers

  ❖ Business & technical perspectives

- Voice Business Models overview

- Fraud & Security management

- Operational Processes - Migration

  ❖ TDM to IP, H323 to SIP…

- Interco and Interop of HD VideoConferencing

  ❖ e.g. Telepresence

- Training Initiative with Neotelis

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… and we will keep working next year!

- Migrating Voice
  - QoS, Signaling, Codecs, FoIP
  - Fraud & Security management
  - Operational Processes

- VoIPX – with the GSMA

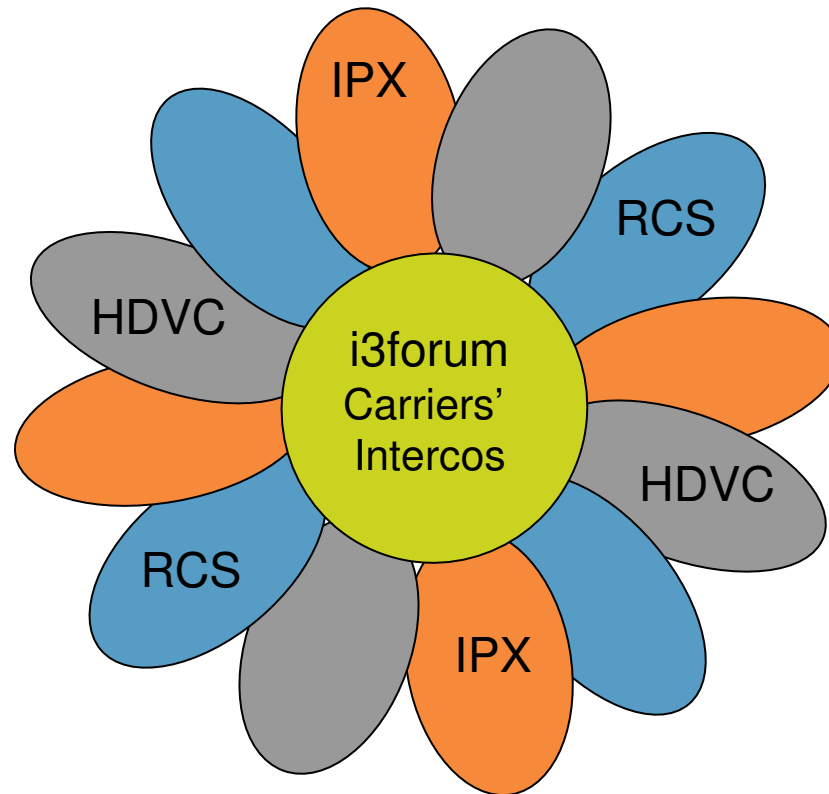- HDVC Interconnection and interoperability

- Carrier Business Models

- Routing & Addressing (ENUM) – with the GSMA
  - Models
  - Common language
  - Architecture

Working for and with the industry!

Flower Power ;-)

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Welcome to the 1st i3forum Technical Workshop!

- Vendors & Industry Bodies invited in Warsaw, June 15-16
  - Discuss i3forum recommendations
  - Inform standard bodies activities of i3forum needs
  - Establish cooperation on a a number of open topic
  - Vendor Neutrality a key aspect

- Collaborating for an IP future
  - Signalling
  - Fax over IP
  - Codecs
  - Security
  - Operational issues
  - QoS Control and Management
  - Voice over IPX
  - Routing & Addressing

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Thank You !