"Toward A Managed Ubiquitous Information Society "

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Thanks

- For the kind invitation of.
- For allowing me to look into the future a bit!
- For allowing me to express **my personal opinion** and not that of the U.S. Government.

The Society being described…

- Crosses international boundaries
- Integrates business practices across industries
- Calls out for all communications technologies to “integrate” and “converge”

- Forces governments, standards bodies, engineers, and businesses to work together.

What are the critical issues?

- In order they are (IMHO)…..
  - Security and Trust
  - Unified view of the network
  - Manageability and reliability
  - Expandability
  - Costing and resource allocation
  - Satisfying of “government” rules

- But they are surmountable

Security and Trust

- Customers need to trust the network and believe it is secure (data, personal identity, business relationships)
- Business needs to trust/monitor each other
- Governments need to set rules and be able to trust/monitor users/business

Unified view of the network

- There cannot be success without a single "simple" layered view of the network (ITU)
  - Easy to use
  - Service-oriented
  - Proprietary and "standards-based" must all fit
  - Non engineering users must be able to understand/use it
  - It has to support "culturally-based" services.

Manageability and reliability

- The network must be manageable/reliable across continents, cultures, governments and business arrangements

- It has to support the law.
- It has to be reliable and usable for traditionally “government” functions.

Expandability

- No fundamental new model next year!
- It has to expand into developing economies, rural indigenous populations.
- It has to expand as new devices attach and assess both current and new services
- It has to be “mobile” in the spectrum.
- It must remain usable by non-engineers.

Costing and resource allocation

- It has to support a cost model based on accurate assessment of services to resources and IP for coherent billing.
- All participants in service operation and use must agree and understand the billing.
- Costing must work across the world.

Satisfying of “government” rules

- Lawful intercept
- Privacy
- IP rights have to be preserved.
- Identity rights have to be preserved.

- Emergency notifications and disaster management must be a supported service.

Think Ad-Hoc

- The ubiquitous network is not a static thing.
- It is built of a very large number of overlapping ad-hoc networks of varying capabilities. Theses networks come and go as the APNOMS 2005 wi-fi network came and will go.
- These need to be smoothly integrated and easy to use from the naïve user perspective.

Will it happen?

You are the key!

Thanks again!

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