



International Telecommunication Union



NGN Management - En Route to Convergence

Leen Mak

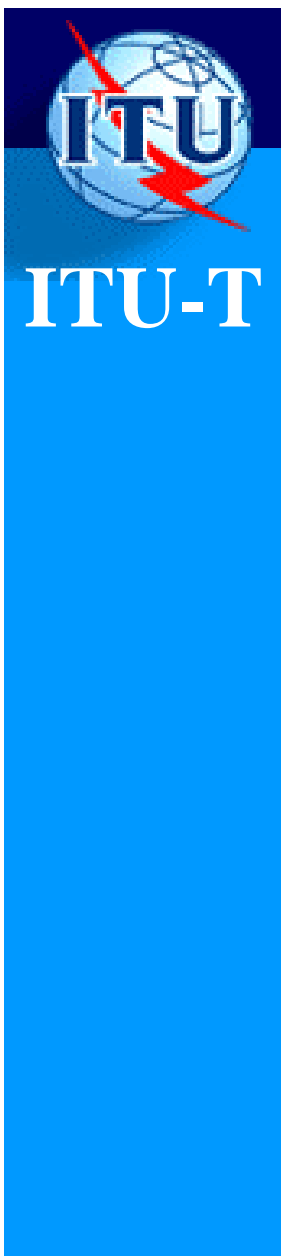
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Geneva, 1-2 May 2005

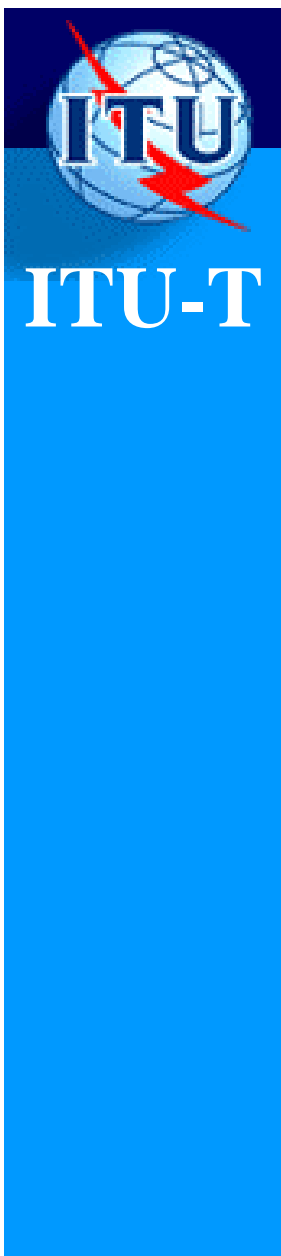


Contents

- o Changes & Consequences
- o Existing Work
- o Emerging Architectures
- o Next Steps
- o Glossary



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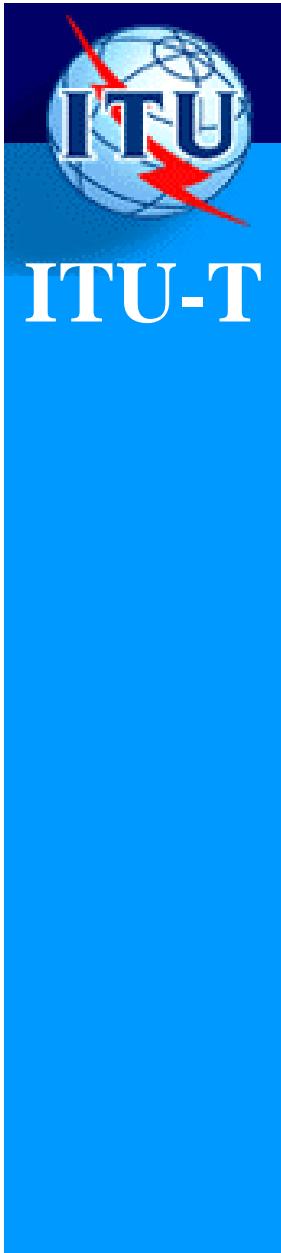


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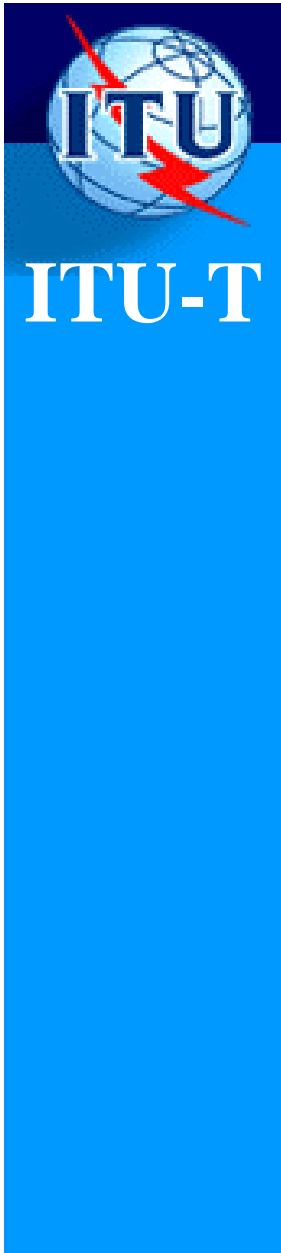
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NGN Brings Changes ...

- Convergence of Wireline and Wireless networks
- NGN has more “run time variables” than current telecom networks
 - Services (products): more diverse, richer, with compressed life cycles, unforeseen
 - More complex value chains

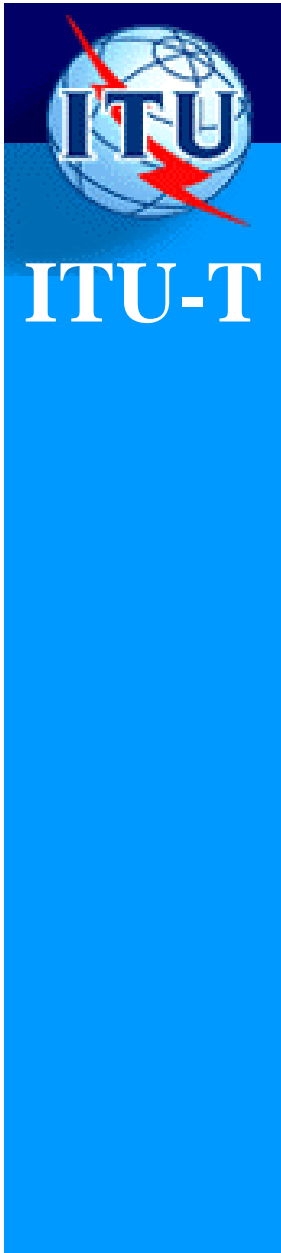




Consequences for Management

- Convergence of Wireline and Wireless Management
 - Collaboration, also between SDOs
- Rethinking of Management Principles
 - Integration of until now independent developments
- ⇒ NGN Management specification is work in progress, en route to convergence

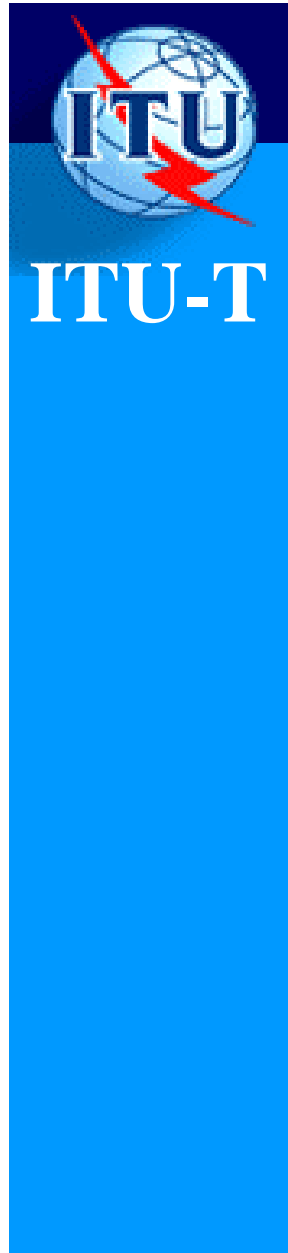




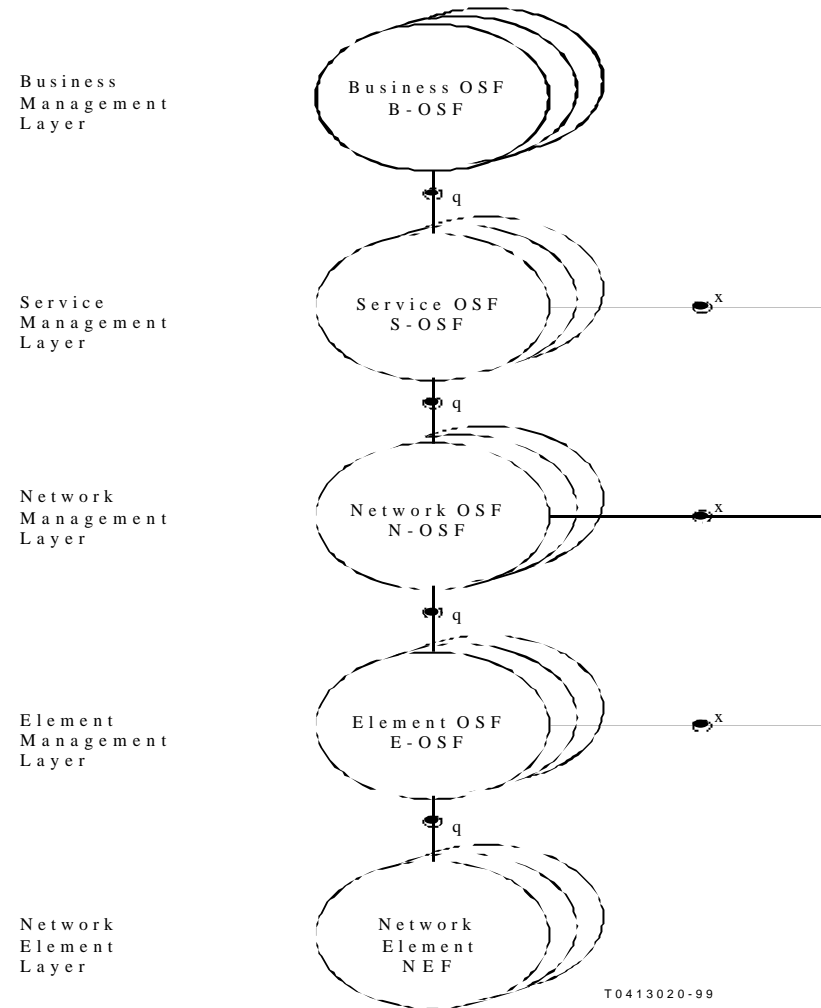
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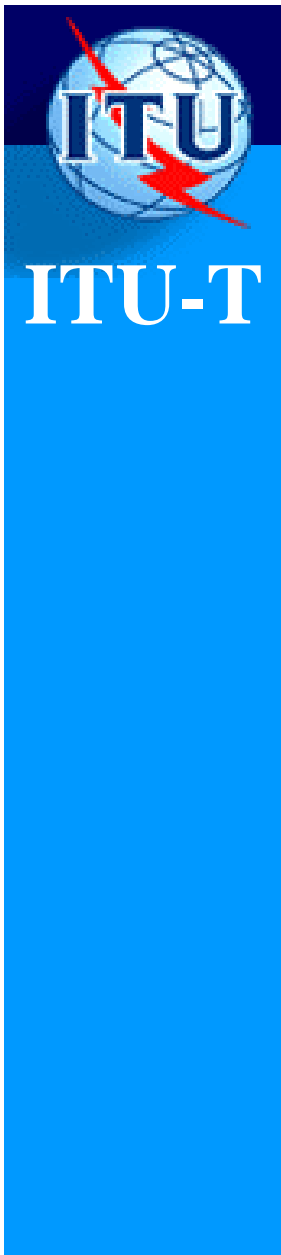
TMN Model (M.3010)



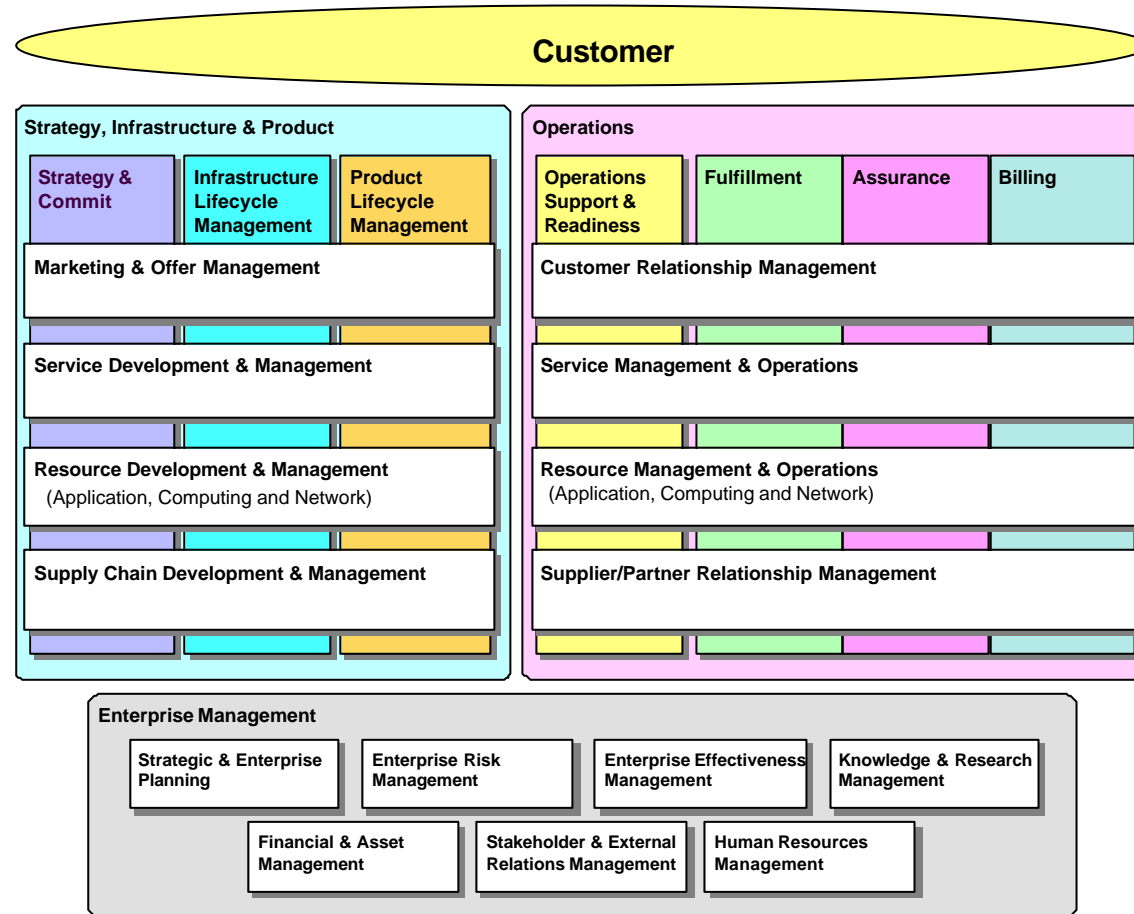
NOTE 1 - Additional or alternative layers are permitted.
NOTE 2 - Other interactions may also occur between non-adjacent layers.

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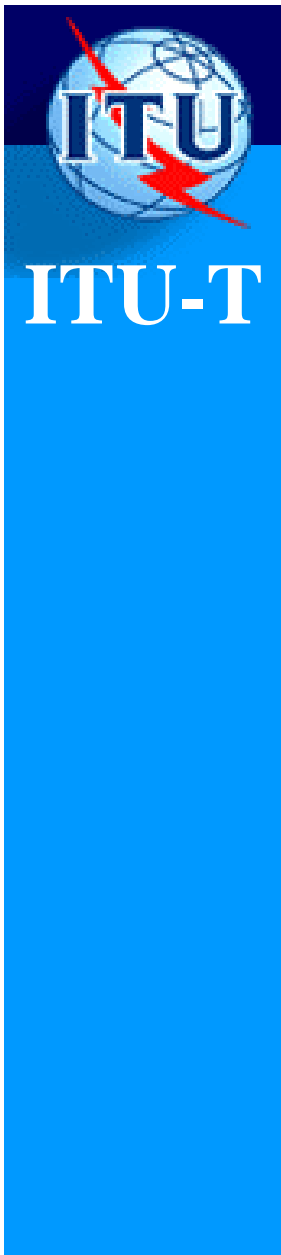


TMF eTOM Business Process Architecture (M.3050)

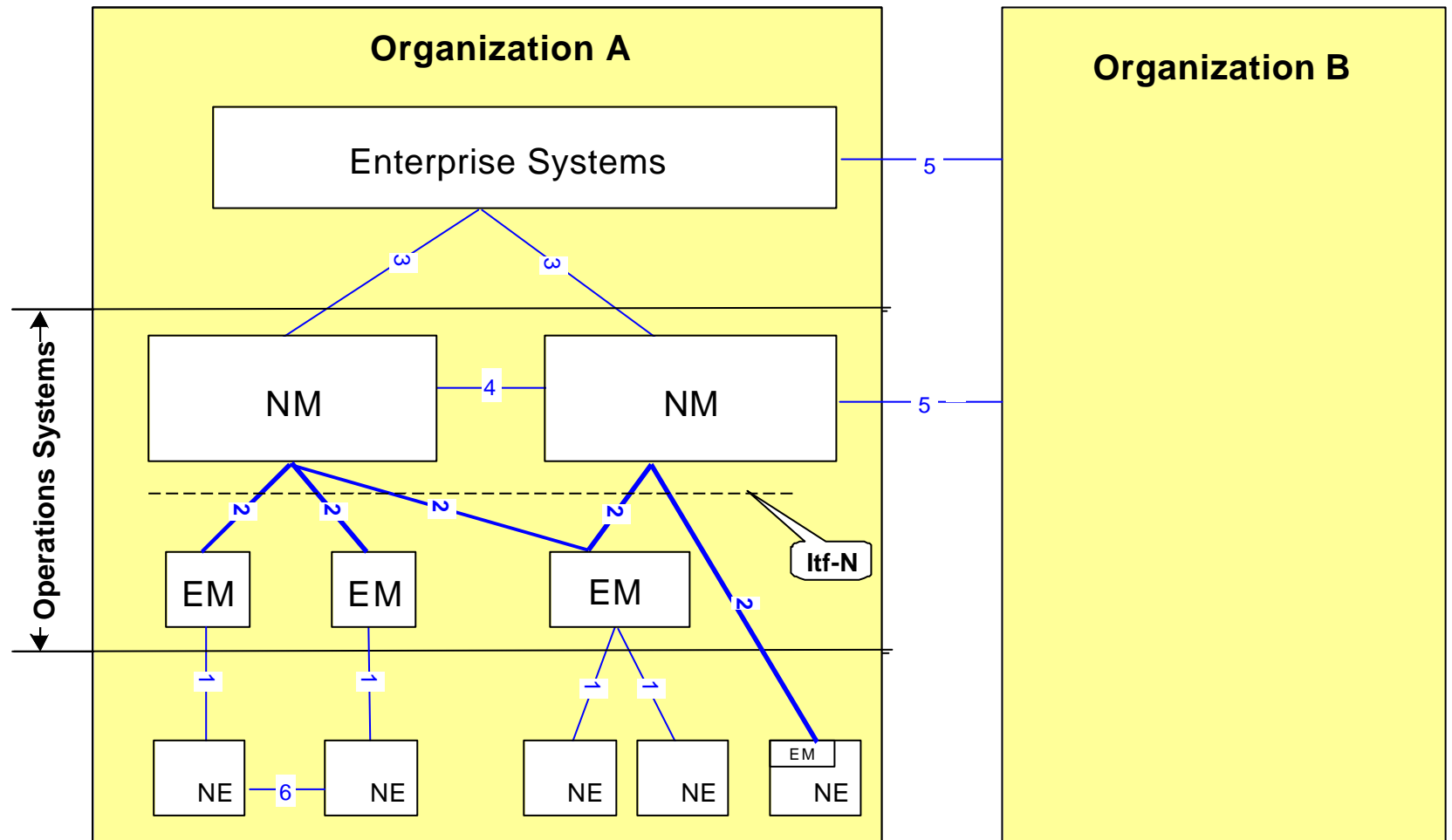


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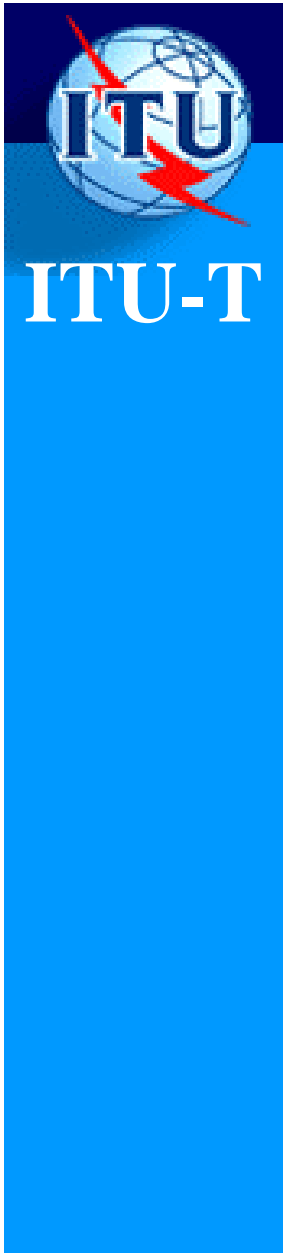


3GPP Management System Interactions (32.101)



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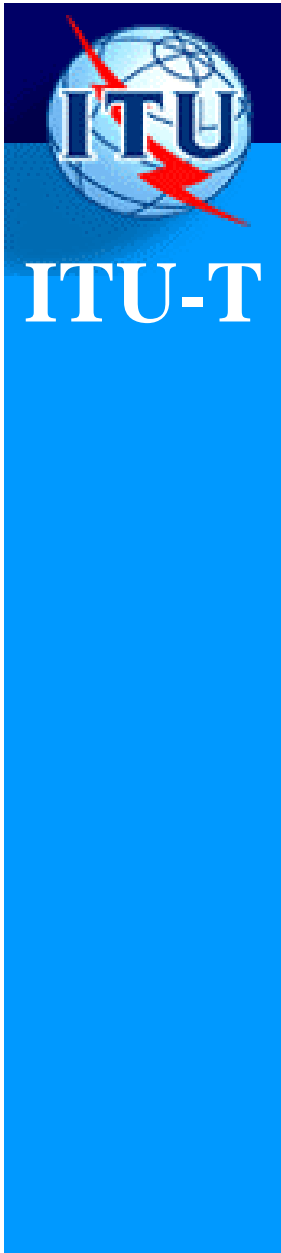


TeleManagement Forum

- MTNM: Multi Technology Network Management
- MTOSI: Multi-Technology Operations Systems Interface
- NGOSS: Next Generation Operations Systems and Software
- SID: Shared Information/Data Model



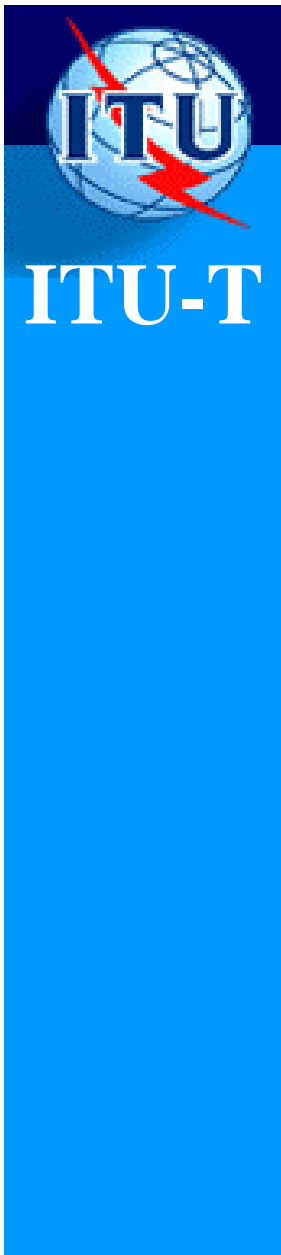
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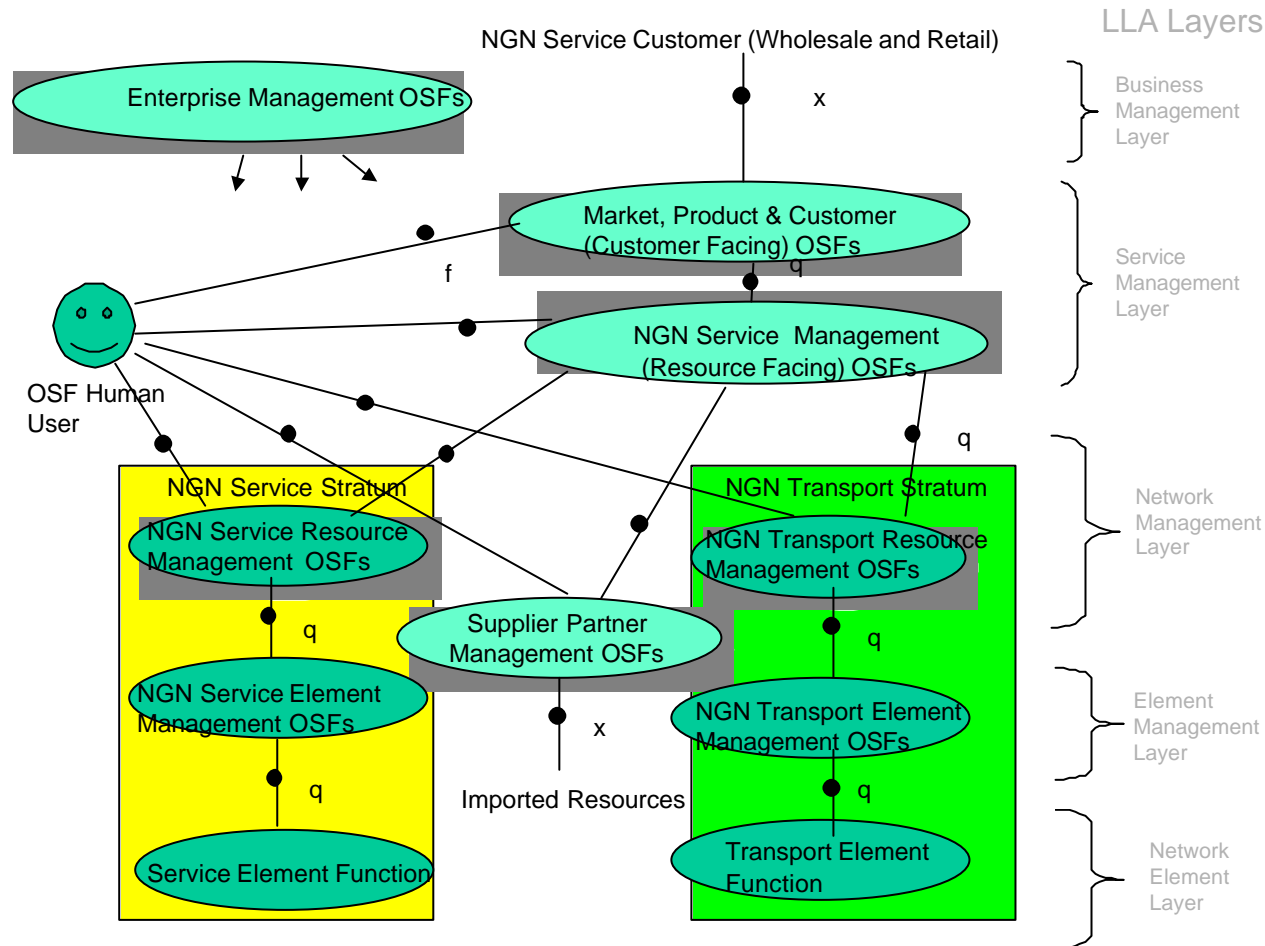
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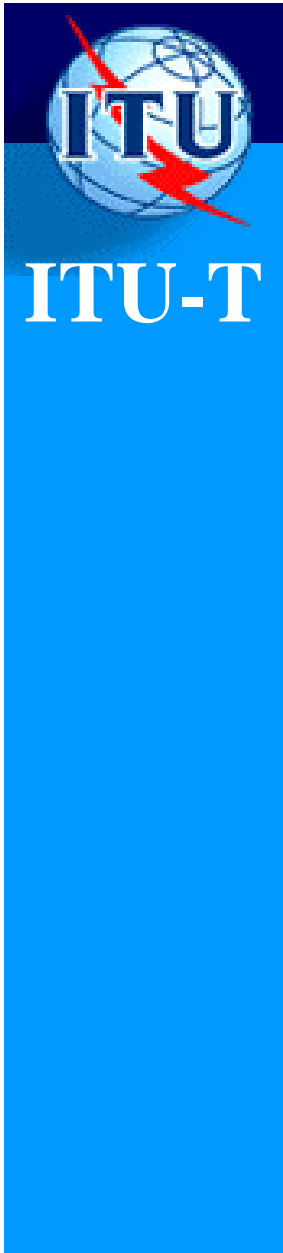


NGN Management Logical Layered Architecture (M.3060)

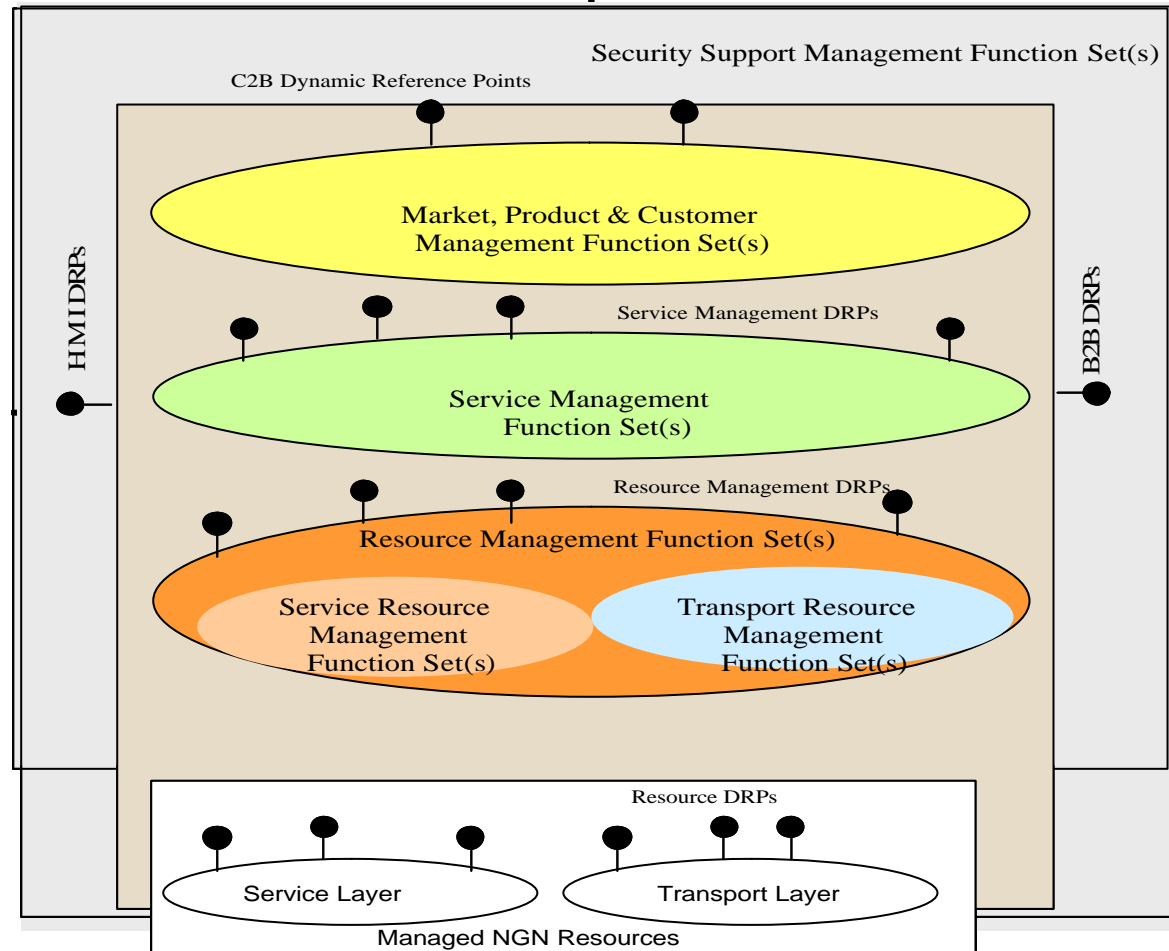


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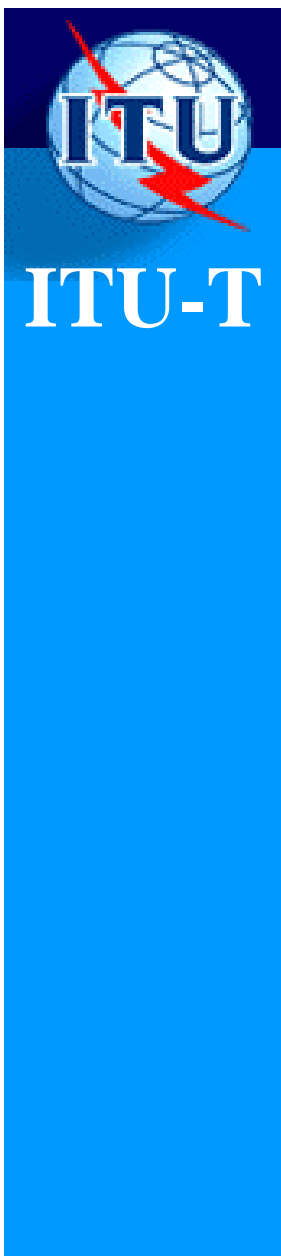


ETSI NGN Management Architecture (TS 188 001)



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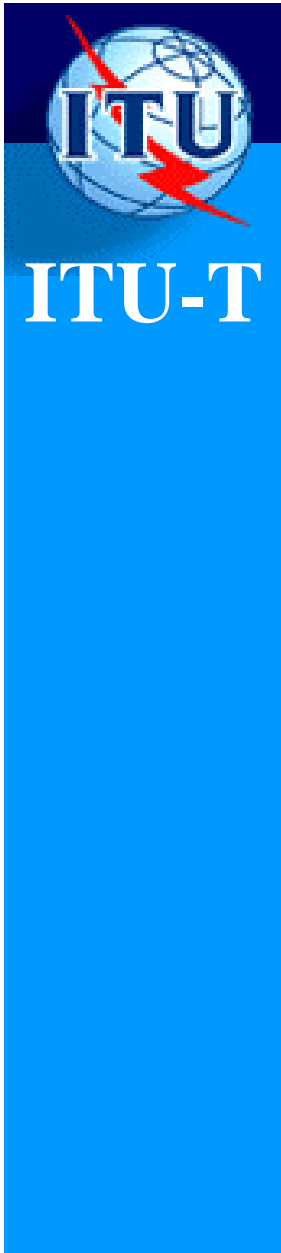


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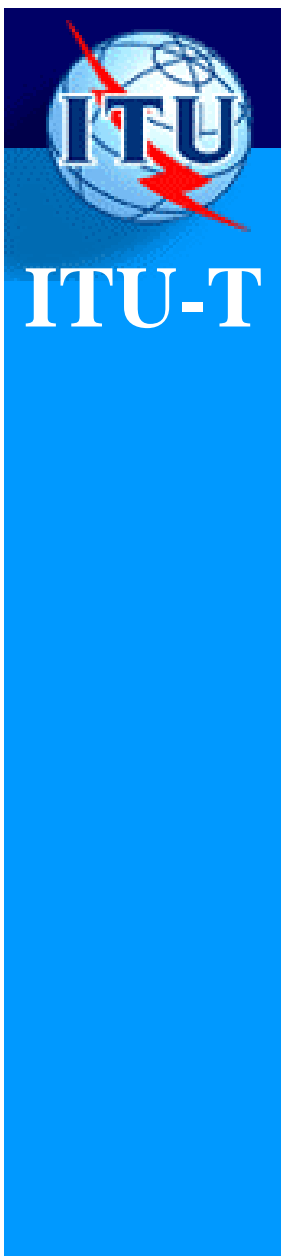
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Next Steps

- o Converge Architectures
- o Protocol Neutral and Protocol Specific Modeling
 - Reuse/adapt where possible
 - Content of required new work not yet clear
 - Work Items created in 3GPP and in ETSI
 - CMIP, CORBA ??
 - SNMP, XML
 - OSS/J



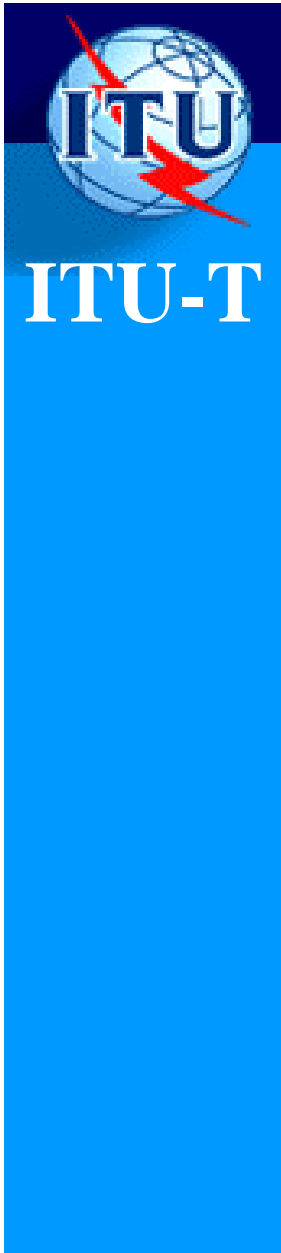


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Glossary

- B2B: Business to Business
- C2B: Customer to Business
- DRP: Dynamic Reference Point
- EM: Element Manager
- HMI: Human Machine Interface
- Itf-N: Interface N
- NE: Network Element
- NGN: Next Generation Networks
- NGNMFG: NGN Management Focus Group
- NM: Network Manager
- OSF: Operations System Function
- SDO: Standards Development Organization
- TMN: Telecommunication Management Network

