

International Telecommunication Union

TIPHON Requirements Analysis

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Agenda

- o Introduction:
 - EP TIPHON, ETS and STF
- Aspects of ETS
- o Requirements analysis
- o Next steps
- o Conclusion



Introduction

- o EP TIPHON
 - VoIP
 - Interworking with other technologies
 - Multi-protocol initiative
 - Abstract architecture towards NGN
- Support for ETS in TIPHON
 - Authority to Authority communications
 - WI 00004-1 Requirements
 - WI 00004-2 System Description



Introduction

- o STF 225
- Extending TIPHON architecture to support ETS
- Funded by European Commission
 - e-Europe initiative for security



Aspects of ETS

- o Preferential call treatment
- o Security
- Quality of Service
- Supported Applications
- o Mobility
- o Inter-domain Communications



Preferential Call Treatment

- o Multilevel priority
- Dynamic provision of priority level
- P-Session establishment
- P-Session routing
- P-Call completion to destination
- o Pre-emption (optional)



Security

- o Security FW in TIPHON
- Authentication and Authorisation
- o Protection of ETS traffic
- o Protection of user identity
- o Protection of user location



Quality of Service

- TIPHON supports multiple classes of service
- Class of service may depend on the Application supported
- o ETS is QoS agnostic
 - Session should progress even if requested QoS cannot be supported



Supported Applications

- TIPHON supports
 - multiple media types
 - different QoS requirements
- o Applications requiring:
 - RT Interactive Comms, e.g. Telephony
 - Non RT Interactive, e.g. Chat
 - Streaming Services
 - Non Interactive services, e.g Web.



Mobility

- O Access to ETS services
 - At Home domain
 - In Visited domain
- o Service execution



Inter-domain Communications

- Support ETS across different networks
 - Technology: IP, PSTN
 - Administrative domain
 - Maintain priority level, when required
 - Need for standardisation
 - standardised PL to provide services



Next Steps

- o 00004-2 System description
- Enhancement to TIPHON FW to support ETS
 - Reflect this in target protocols
- Feedback from user groups



Conclusion

- ETS recognised as an important capability by TIPHON and European Commission.
- Requirements covered for different aspects of ETS
- Use above to enhance TIPHON FW
- Provide a FW that supports standardised ETS capability