

ICAO/ATN Internet Protocol Suite (IPS) Standards and Recommended Practices Status of Development

ICNS Conference
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ATN Benefits

- Global air traffic management network
- Connectivity between airlines, ATM service providers, communication service providers, regulatory authorities
- Enable diverse static and mobile platforms to interoperate as a virtual network
- Decreases Voice Congestion
- Increase ATM Services

Current ATN Standard

- Specified in ICAO standards/guidelines
 - Currently based on ISO/OSI reference model and associated protocols (cf. ICAO doc 9705 ed. 3, and doc 9739 ed. 2)

Additional ATN Standard

- Internet Protocol Suite (IPS) SARPS

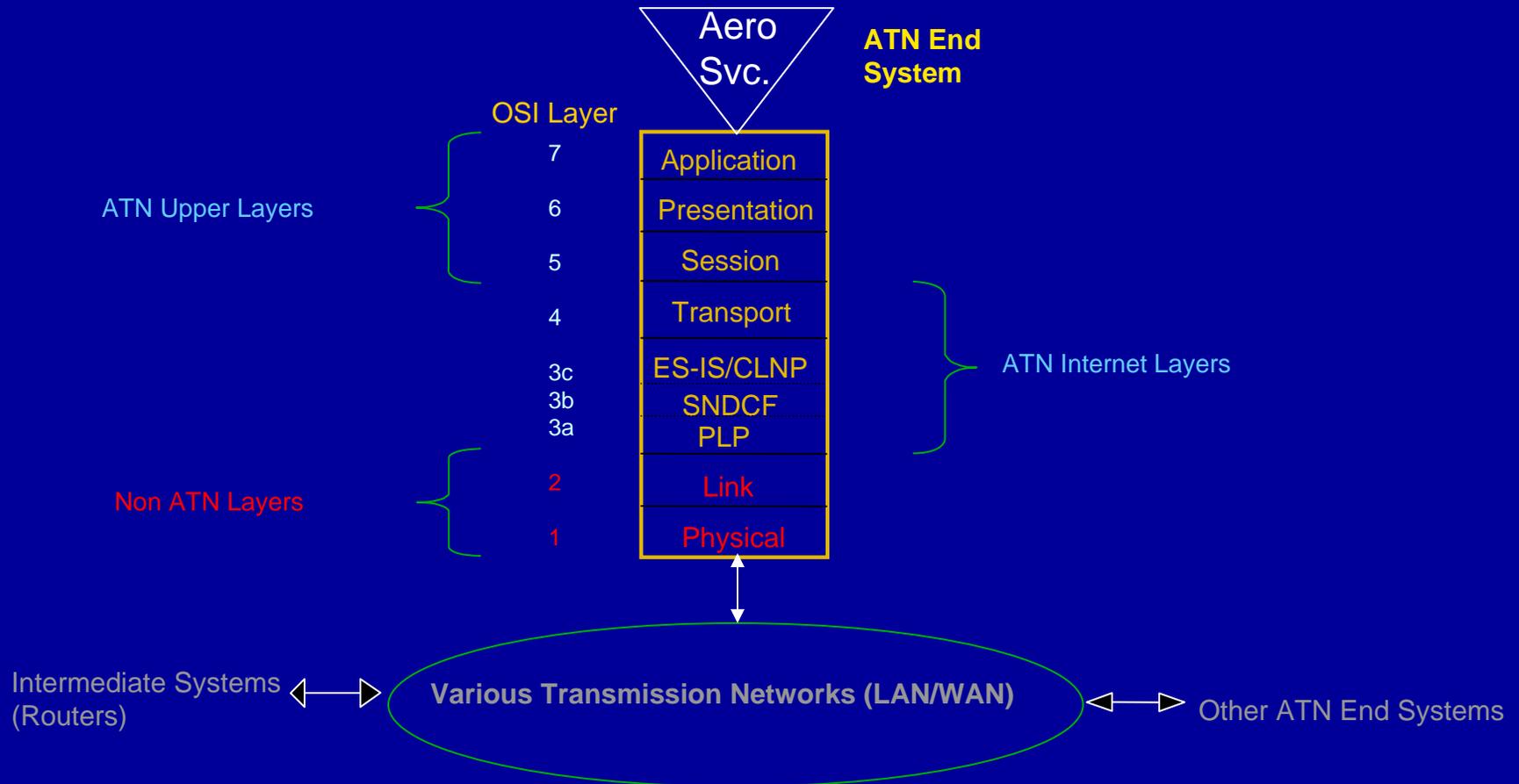
Drivers for Additional ATN Standard

- ISO/OSI Based SARPs complete but not being implemented as envisioned
- Future Work Program from ACP
- Change in standards direction for industry
- Mobility Solutions Available
- Currently being deployed through out the world
- Improved convergence (i.e. VOIP)
- Cost Savings

Working Group Organization

- Working N is responsible for the overall SARPs
- Subgroup N1 responsible for Internetworking Services
- Subgroup N2 responsible for upper layer G/G and A/G Applications
- Subgroup N3 responsible for System Management and Directory
- Subgroup N4 responsible for Security

Current Layered Architecture



ACP Assigned New Work

- SARPs Modification to Annex 10, Chapter 3
 - G-G IPS Technical Manual
 - G-G Guidance Material
- Mobile Internet Protocol Suite Analysis
 - Additions to Technical Manual and GM
- Voice over IP Analysis

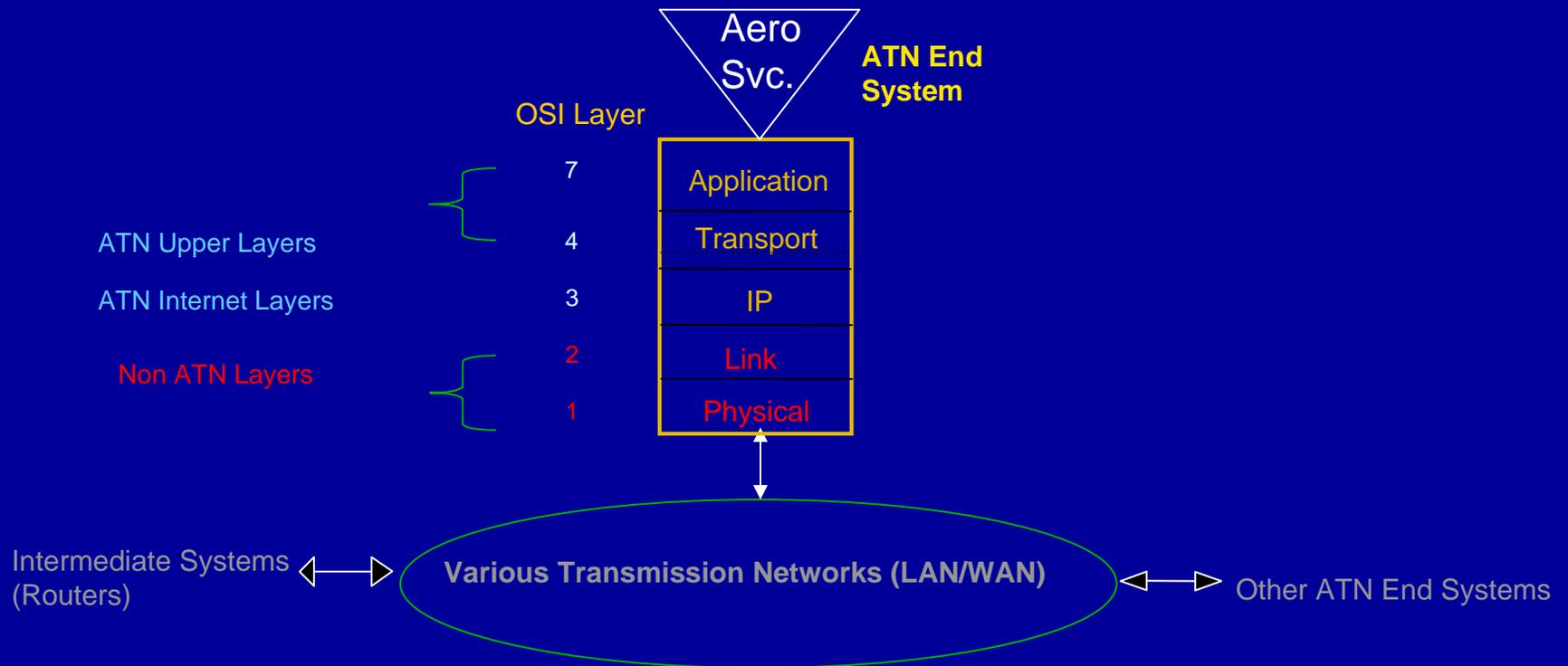
Work Performed

- Internet Protocol Suite SARPs Final Version Completed and will be forwarded to ACP, Technical Manual Draft, Guidance Material in process
- Mobile Internet Protocol Suite Analysis Completed and to be forwarded to ACP
- Voice over IP Analysis Complete and to be forwarded to ACP

Schedule

- Internet Protocol Suite SARPs to be completed **June 2007**
- Mobile Internet Protocol Suite Analysis was completed **June 2006**
- Voice over IP Analysis completed March 2007

Planned Layered Architecture



ISSUES

- Management and Directory Work needs to be defined and performed for IPS
- Security Work Deliverables need to be defined
- Application Porting to IPS Analysis to be performed

Questions

