



Policy Management Standards

Toward a Common Architecture Framework

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A Live ATIS Webinar - Thursday, September 30, 2010 | 1:30 - 2:30 PM EDT



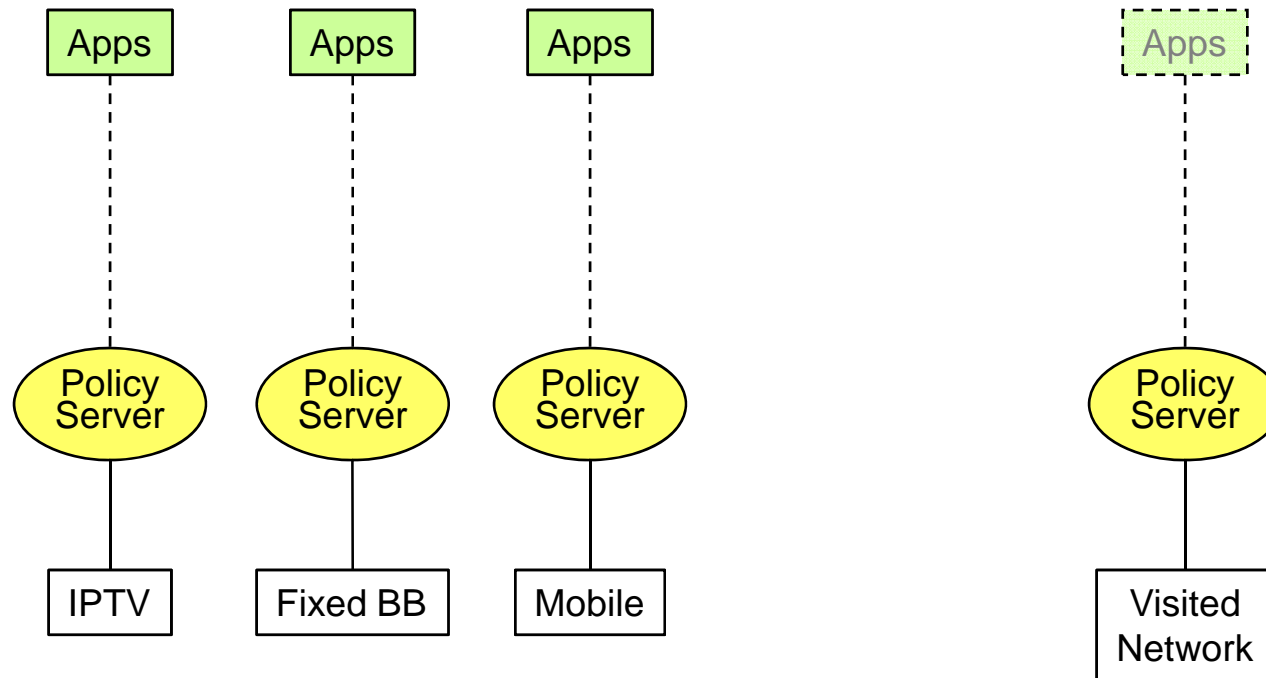
Policy Management Focus Group (PM-FG)

Problem Statement:

Current policy standards context:

- Independent policy solutions (fixed, mobile, video, etc.)
 - Implications for CAPEX & OPEX
- Fragmented standards landscape
- Converged services are increasingly dependent on consistent Quality of Service (QoS)

Policy Management – Current Reality

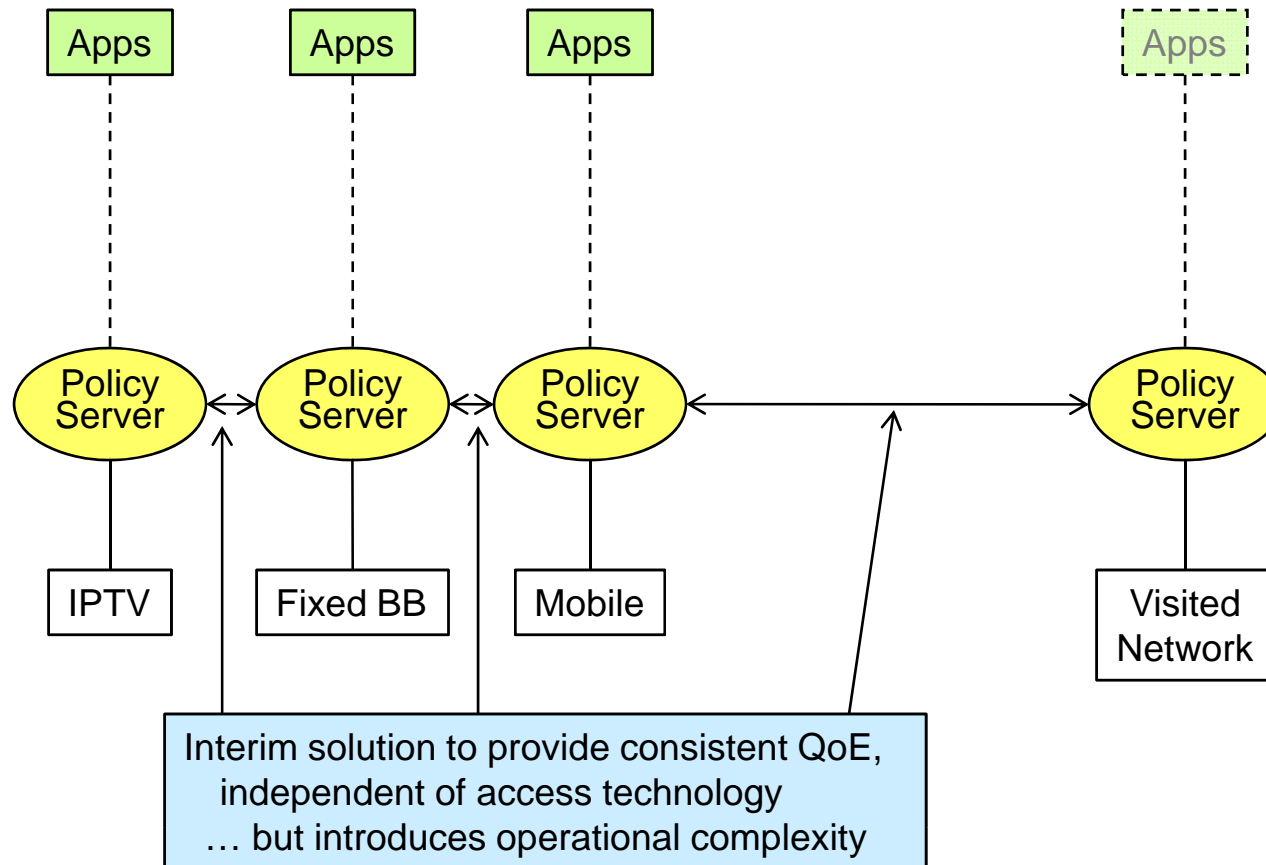


Current Reality:

- Policy infrastructure for each access technology
- Access specific services
- Applications have limited network control

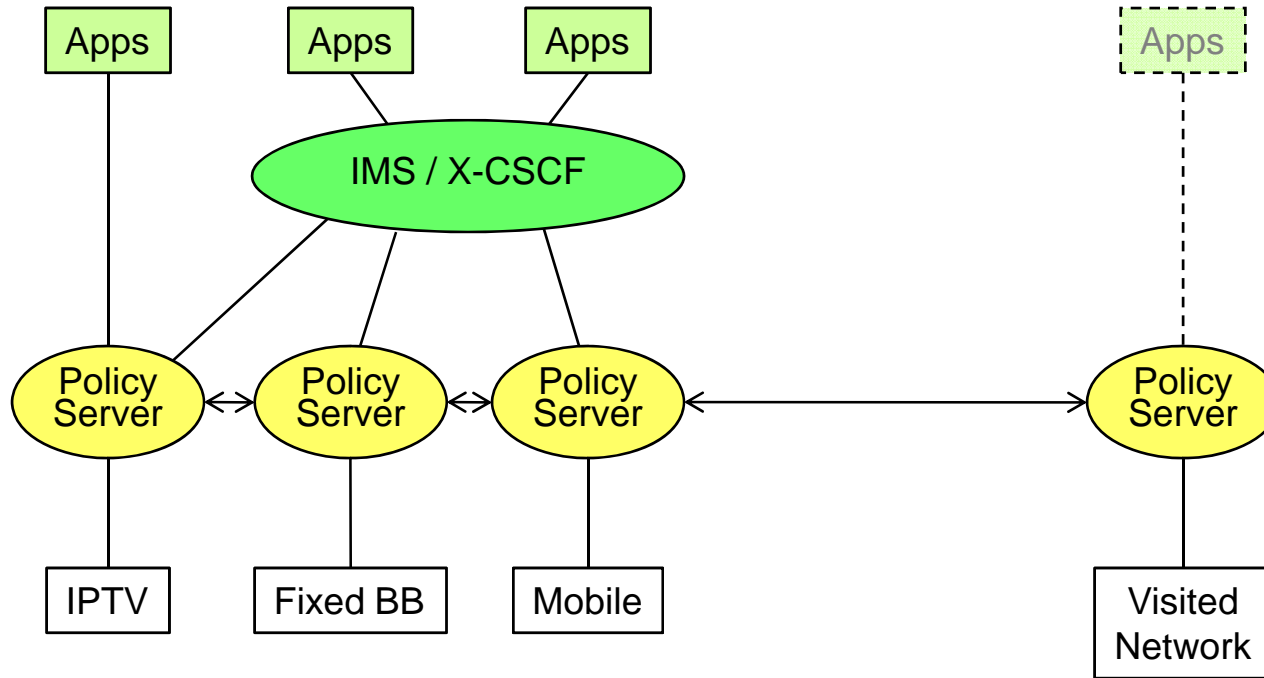
BB = Broadband
IPTV = IP Television

Toward a Common Policy Framework



QoE = Quality of Experience

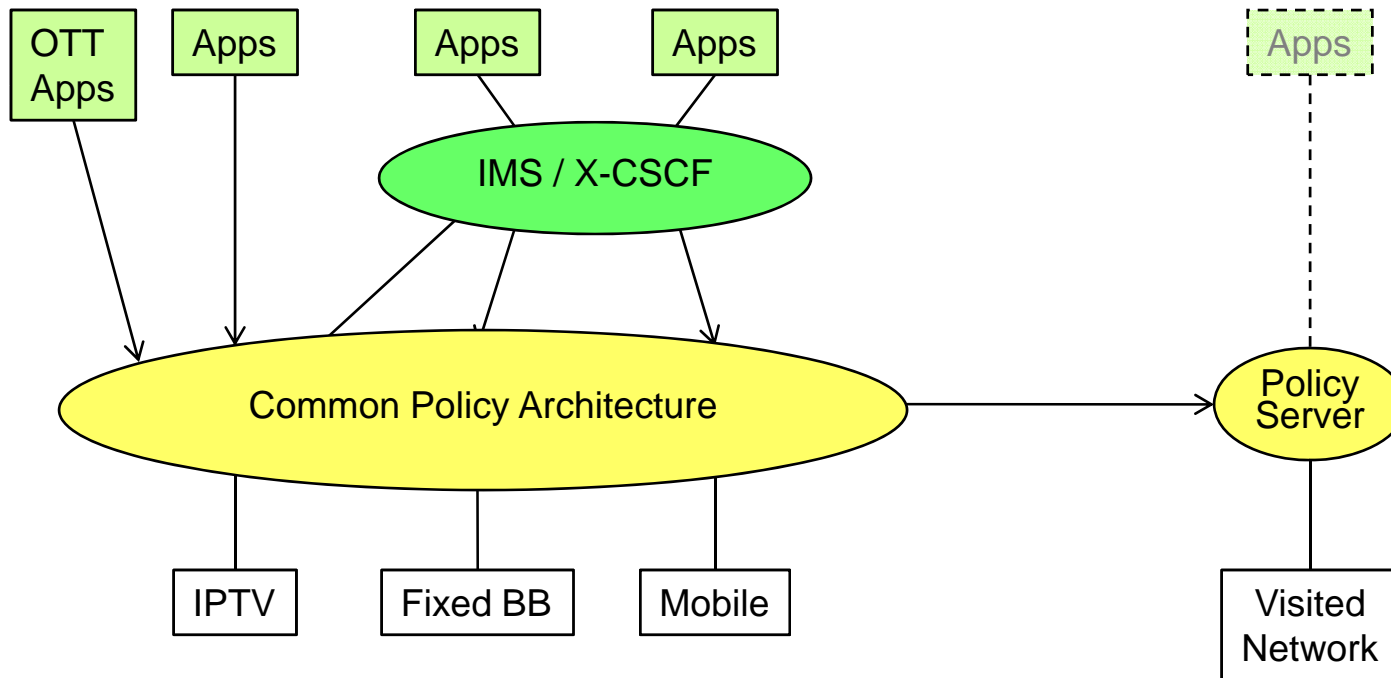
Toward a Common Policy Framework



Target Solution => Common Policy Framework

IMS = IP Multimedia Subsystem
CSCF = Call Session Control Function

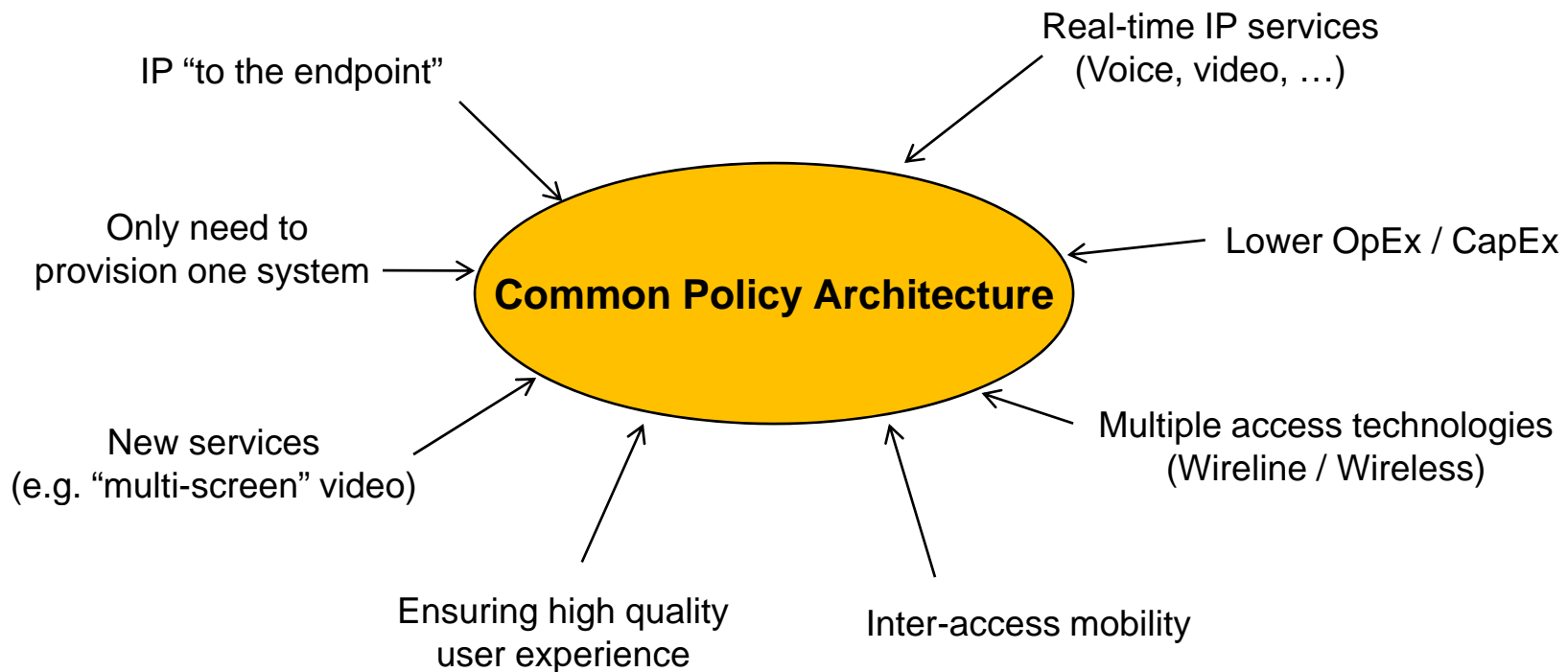
Common Policy Framework - Target



- Consistent QoE independent of access technology
- Enhanced service velocity
- Open, standardized environment
 - Ecosystem of applications & vendors
 - Innovation / competition
- Operational simplification

OTT = Over The Top

Common Policy Framework - Drivers



OpEx = Operational Expense
CapEx = Capital Expense



Participants

- Alcatel-Lucent
- AT&T
- Cisco
- GENBAND
- HP
- Huawei
- Juniper
- Nokia Siemens Networks
- Nortel
- Qwest
- Telcordia
- Verizon



Policy Management Focus Group (PM-FG)

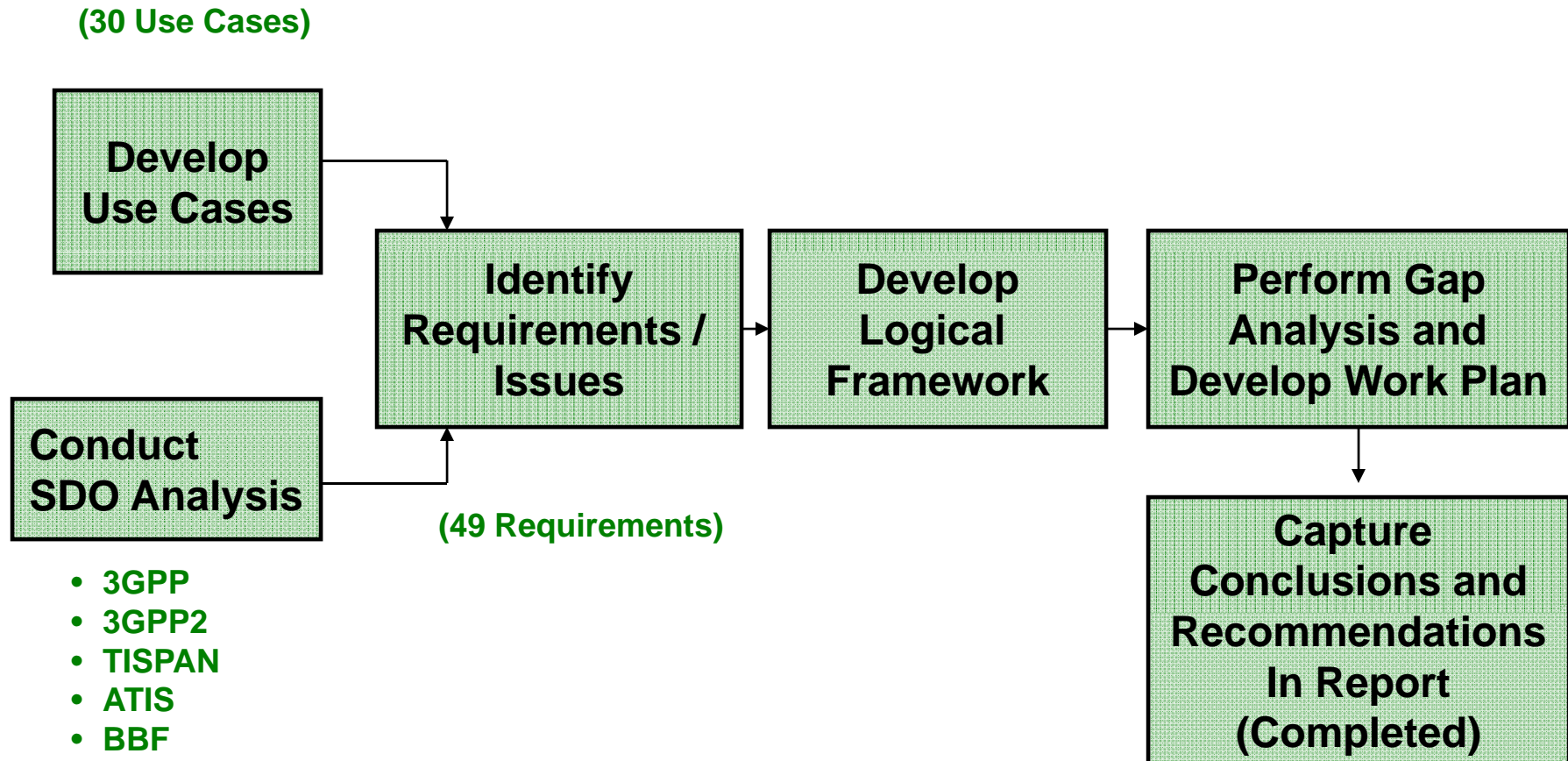
PM-FG methodology:

- Carrier-driven analysis
- Operator-proposed, end-user driven use cases
- Standards analysis based on requirements derived from use cases
- Concrete actions and specific standards plan

Objective:

Define policy standards roadmap toward a common policy architecture framework based on 3GPP Policy and Charging Control (PCC) architecture

High-Level Methodology



SDO = Standards Developing Organization

PM-FG Report can be downloaded [here](#).

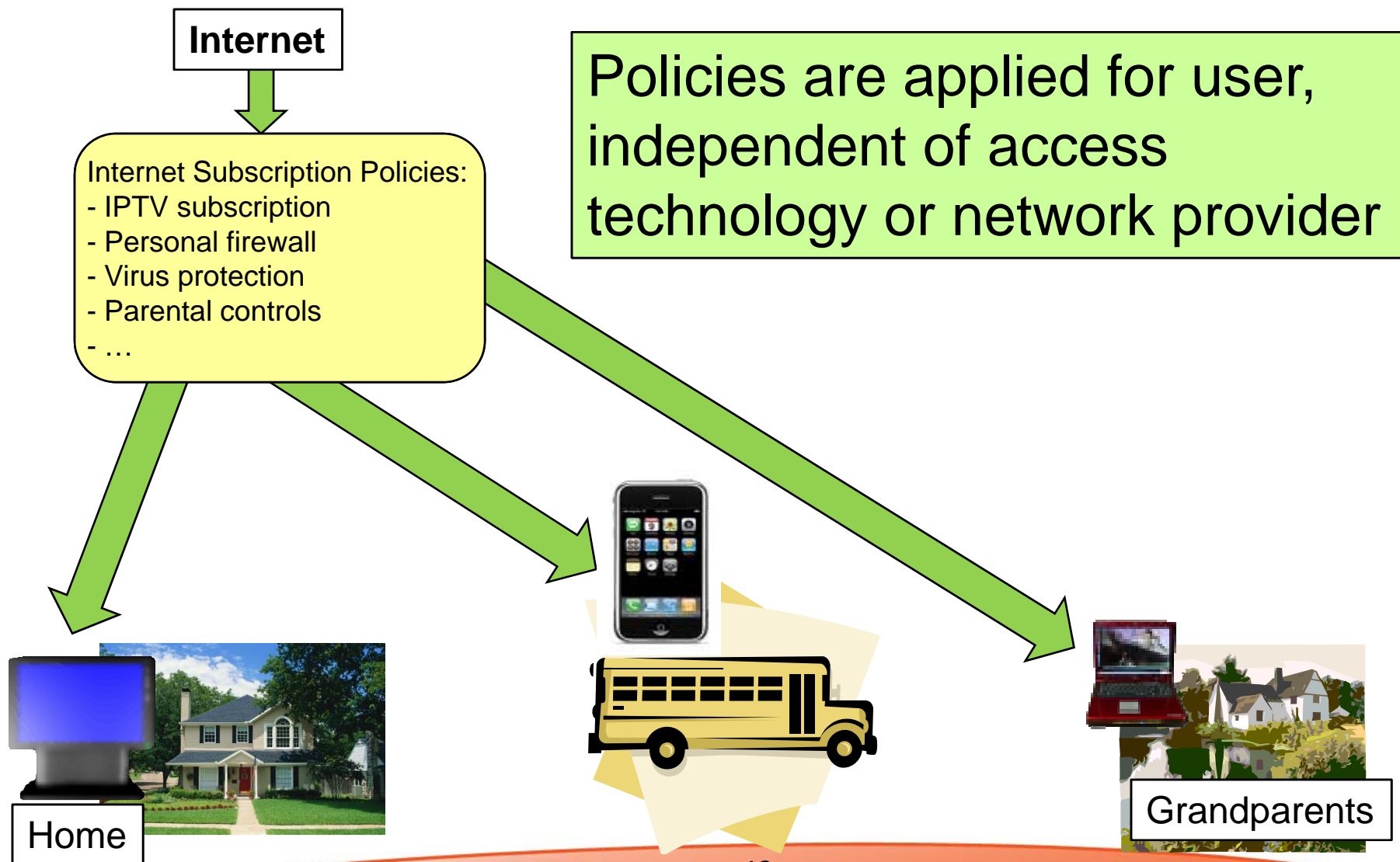
Use Cases

Initial step was to devise carrier-driven use cases from the end user perspective. Use cases fell into the following broad categories:

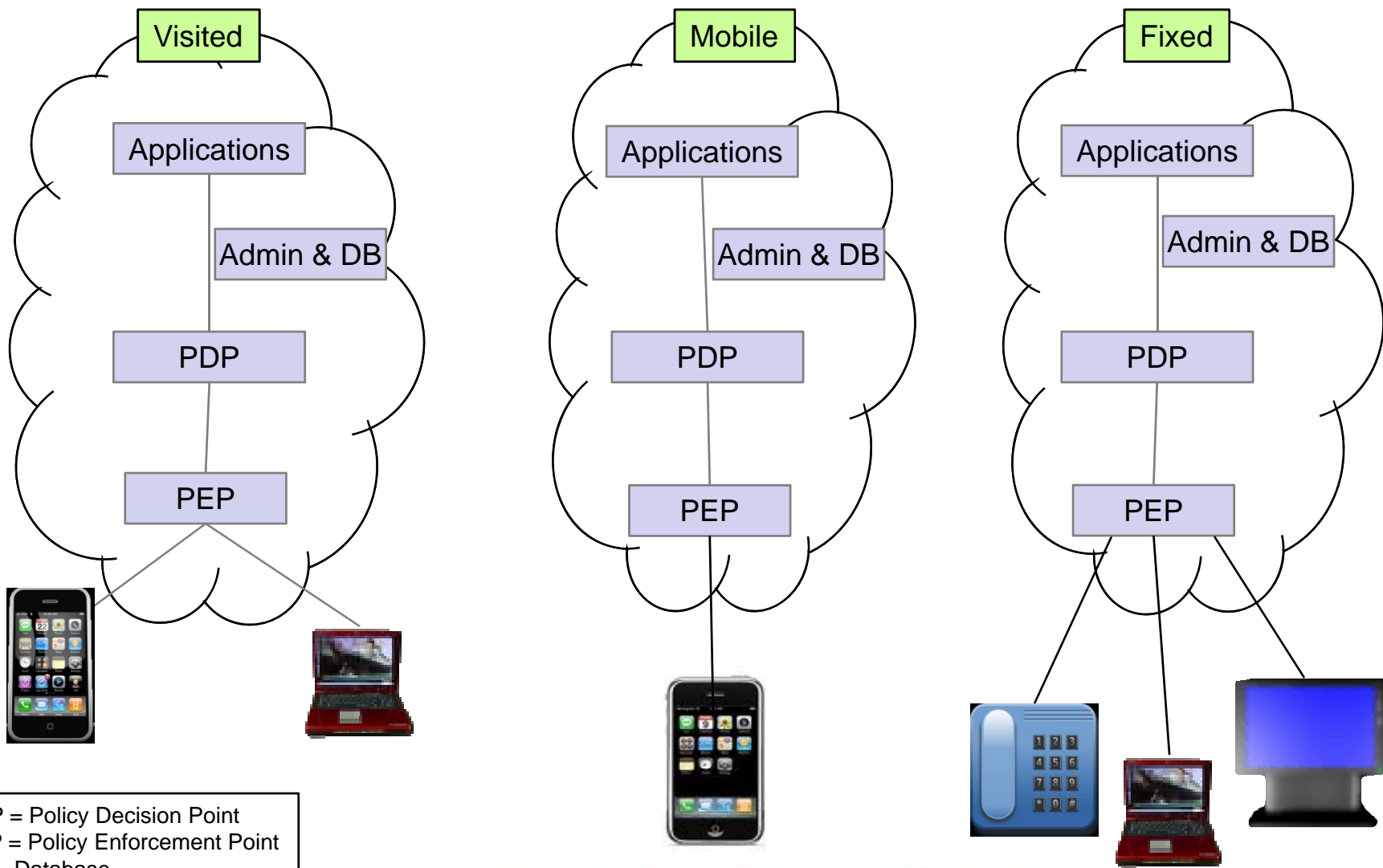
- Fixed / Mobile convergence
- Nomadicity
- Aggregate policy controls
- Emergency services
- Context dependent (time, location, application, ...)
- Home networking

Comprehensive Analysis

Use Case Example: Nomadic User

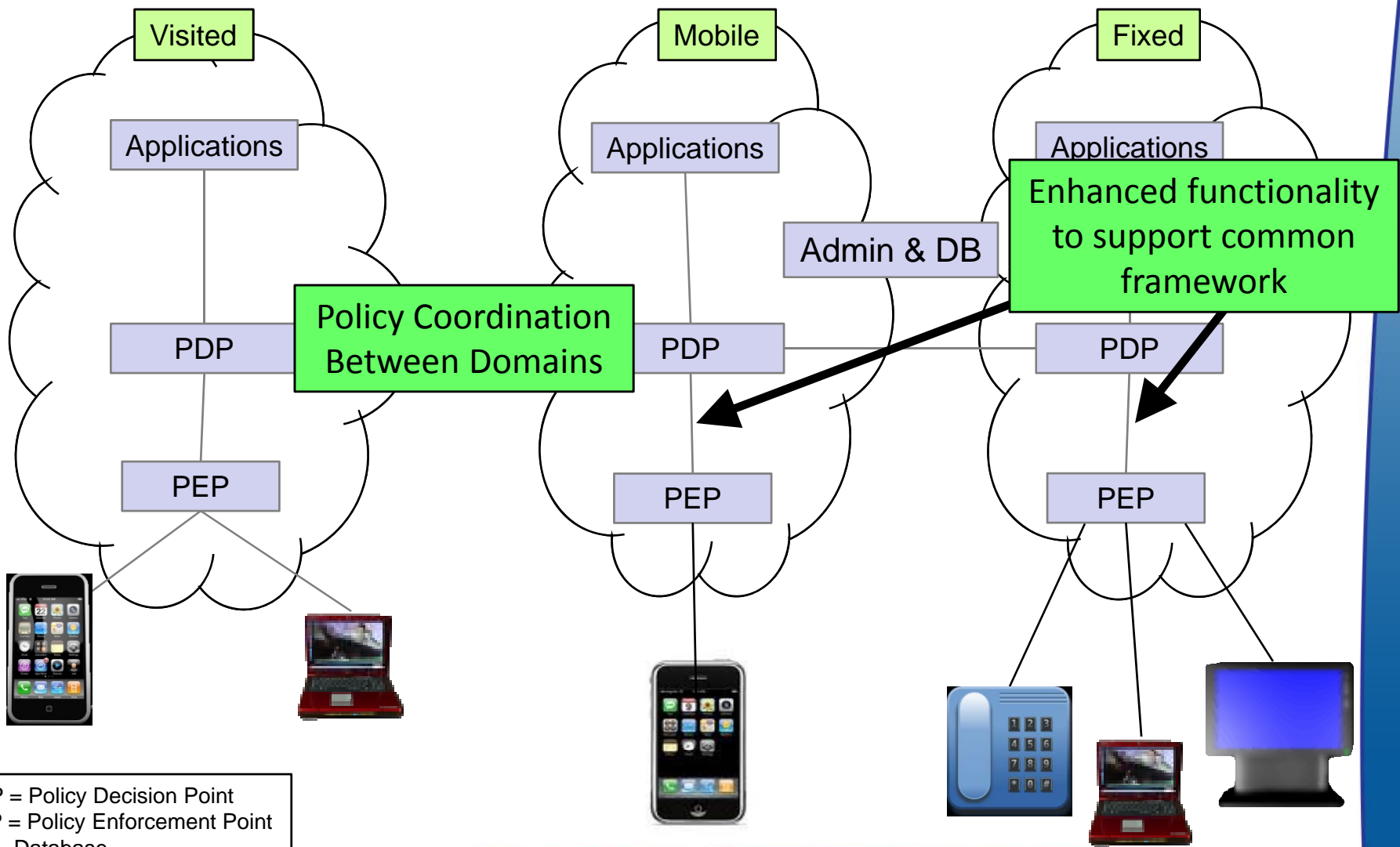


Policy Framework (Simplified)



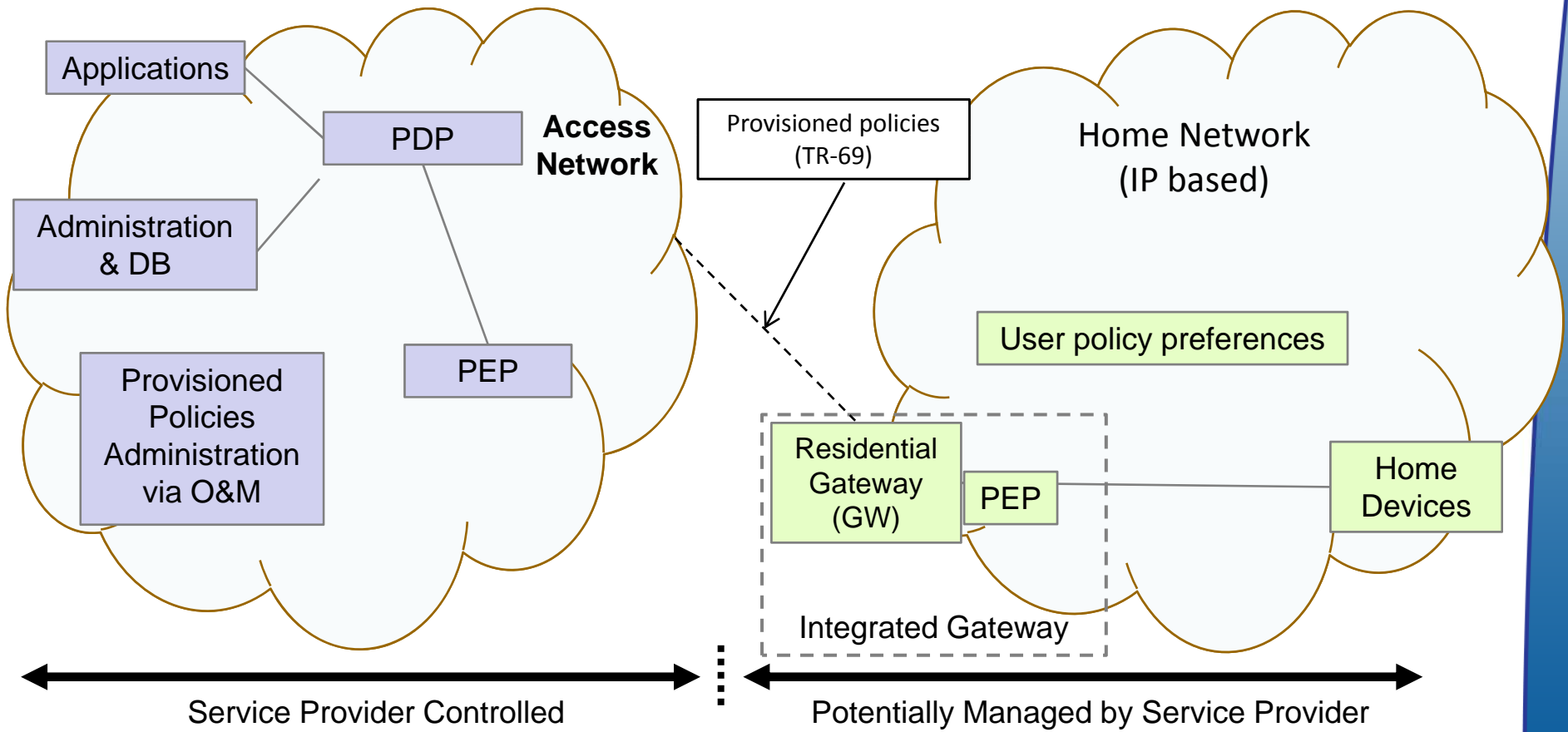
PDP = Policy Decision Point
 PEP = Policy Enforcement Point
 DB = Database

Policy Framework (Simplified)



PDP = Policy Decision Point
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HNET Policy Framework





Gaps and Work Plan

Standards Gap Category	SDOs
Support for fixed, multicast / broadcast video	ATIS PTSC, BBF; 3GPP (R11 target)
Content filtering beyond Layer 3 / 4 ACLs (e.g. parental controls)	3GPP (R10 study item) (R11 targeted Work item)
Charging control for Selected IP Traffic Offload (FMC)	3GPP (R11 work item)
Support for group subscriptions	3GPP (R11 targeted)
Protocol extensions for non-3GPP policy enforcement points on Gx interface	ATIS PTSC, BBF; & 3GPP (R11 targeted)
Policy Convergence, building on PCC	ATIS PTSC-SAC Issue 83, BBF, 3GPP (R11 targeted)
Consistency of TR 69 policy model, for Home Networking, with PCC	ATIS PTSC-SAC Issue 83

Horizontal policy being worked by 3GPP as work item in R10/R11



Action Plan

- Policy architectural framework based on 3GPP PCC
 - Enhancements where required for non-wireless access
 - Ongoing input into 3GPP process
- Work in progress to define common policy architecture
 - ATIS PTSC completing TR based on focus group output
 - Growing interest from BBF
 - Ongoing liaisons between ATIS and BBF
- Members of Focus Group Team taking the lead on these initiatives



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