

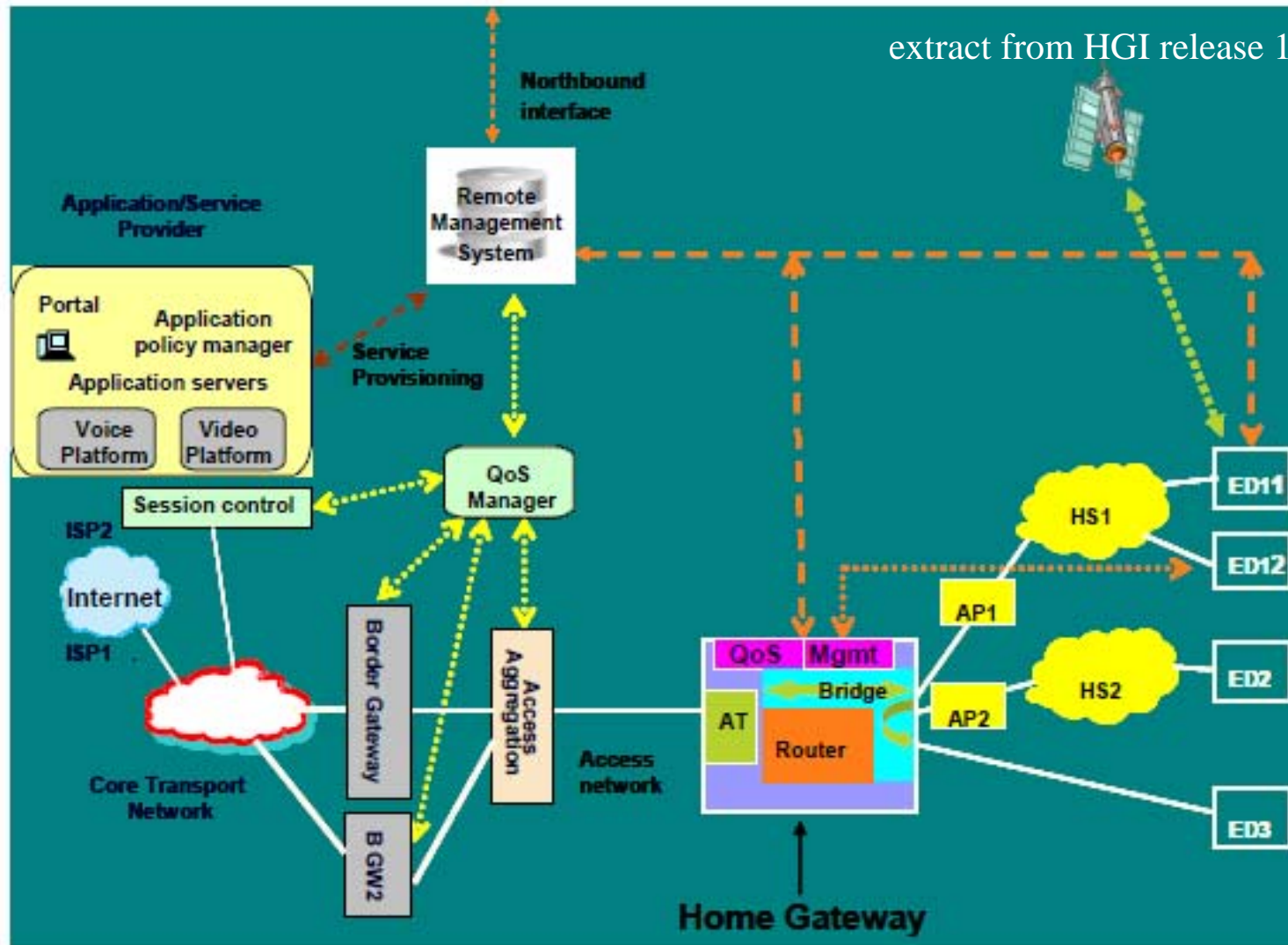
Management of Convergence Networks and Services - Home network environment -

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Topics

- Services in the home
 - Home Gateway Initiative release 1
- NGN management
 - NGN management focus group activities
- Service platform in the home
 - Appliance configuration
 - Authentication of users, devices and location

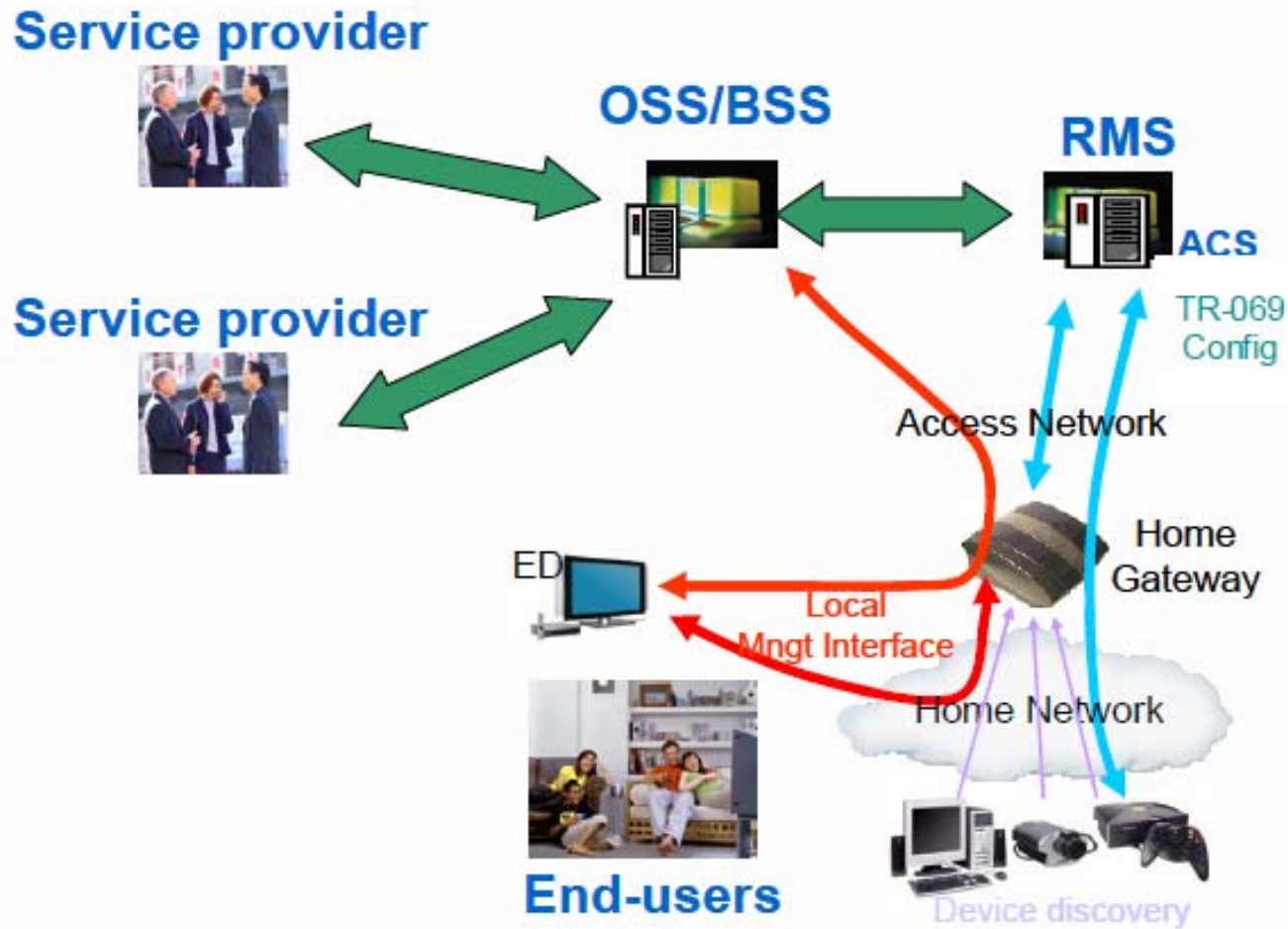
End to end architecture



Use cases in the home

- Broadband connectivity
- Communication
- Home office
- Home management and security
- Entertainment and Information
- Fixed mobile convergence

Management architecture



NGN Management

- NGN Management Focus Group
- Established by ITU-T SG 4 in Sept 2004 at FGNGN request to support NGN Release 1
- Based on a proposal from leaders of major SDOs, forums, and consortia
- Focused on the following (FCAPS) management interfaces:
 - Network Element – Management System
 - Management System – Management System

NGN Management FG

- General goal: To provide the management interface capabilities to support the ITU-T objectives for Release 1.
 - To agree with the high level management requirements and architecture in Y.2001, Y.2011, and Y.NGN-FRA
 - To collaborate with world's major SDOs, forums, and consortia
 - Emphasizing reuse of their management specifications where relevant
 - ITU-T SG 4 and SG 15, ATIS TMOC, ETSI TISPAN WG8, TeleManagement Forum (TMF), Distributed Management Task Force (DMTF), 3GPP SA5, 3GPP2 TSG-S WG5, OASIS WSDM, IETF Operations and Management Area

NGN Management FG

- To produce a NGN Management Specification Roadmap focused on Release 1 which identifies
 - Requirements
 - Framework, principles, and architecture
 - Interface specifications, both protocol-neutral and protocol-specific
- To identify specification “overlaps” and stimulate their owners to harmonize them
- To identify “gaps” and best organization(s) to fill the gaps
- As a last resort, to produce specifications

Service Platform in the home

- Configuration of any appliances
 - Use of input/output devices as component of new appliances
 - ex. PC + Peripherals + application >> video phone
 - Administration of virtual appliances

	Device 1 Phone set	Device 2 Display	Device 3 Camera	Device 4 Mic	Device 5 Speaker
V-Video Phone 1	V	V	V		
V-Video Phone 2		V	V	V	V
V-Phone 1				V	V
V-Phone 2	V	V			

Service Platform in the home

- Realization of a secure personal communication over FMC environment
 - Subscription of home gateway
 - Home gateway ID
 - Registration of devices
 - Device ID
 - Subscription to services
 - User ID (Public ID for a person)
 - User ID mapping over Devices
 - Authentication management by the home gateway

Service Platform in the home

- example: Call establishment

