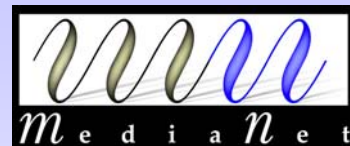


Personal Multimedia Communication Softswitch Enhancements



Enzo BATTAGLIA / Paolo COMI – Italtel S.p.A.

Application Area:

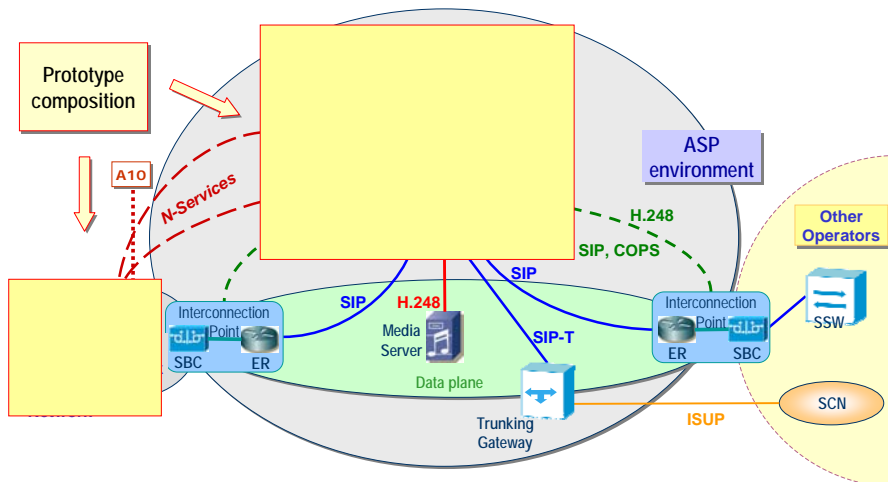
Personal Multimedia Communication (PMC) defines a network architecture capable to support end-to-end multimedia services provided to domestic users.

The scope of PMC is in Terminals, inside Home environment, and in Application Service Provider (ASP) core network. This allows the complete end-to-end vision of services in a world wide perspective.

Main results:

- ❑ Definition of end to end service architecture capable to guarantee the desired level of end to end quality.
- ❑ Identification of the suite of candidate protocols for signalling, control, media, and system management.

PMC Network Architecture

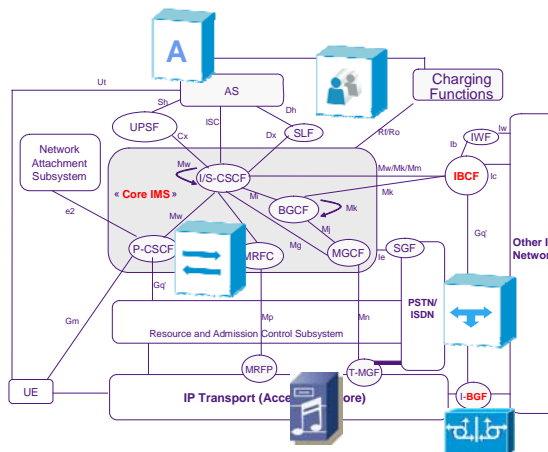


PMC architecture concepts

- ❑ End-to-end services with guaranteed QoS.
- ❑ Interconnection architecture, based on Session Border Controller approach.
- ❑ Proposal of a model for data plane control.
- ❑ Signalling models for Telco operators. Not all the possible architectures can be acceptable for a real deployment.
- ❑ Terminal management architecture.
- ❑ QoS management architecture on the transport network.
- ❑ Access Network resource control through N-Services.

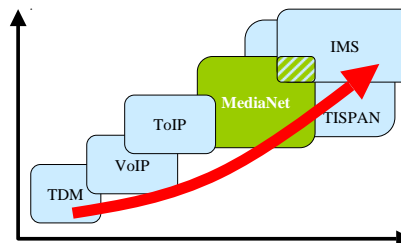
MediaNet architecture and TISPAN - IMS

PMC network elements map well with TISPAN or IMS.

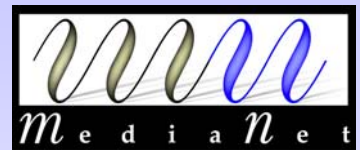


PMC architecture has a wider scope than TISPAN or IMS, and provides contribution for:

- Home network.
- Terminal architecture and remote management.
- Access Network
- Multi-protocol environment.
- Complete end-to-end vision.



Personal Multimedia Communication Softswitch Demonstration



Enzo BATTAGLIA / Paolo COMI – Italtel S.p.A.

Demonstration objectives:

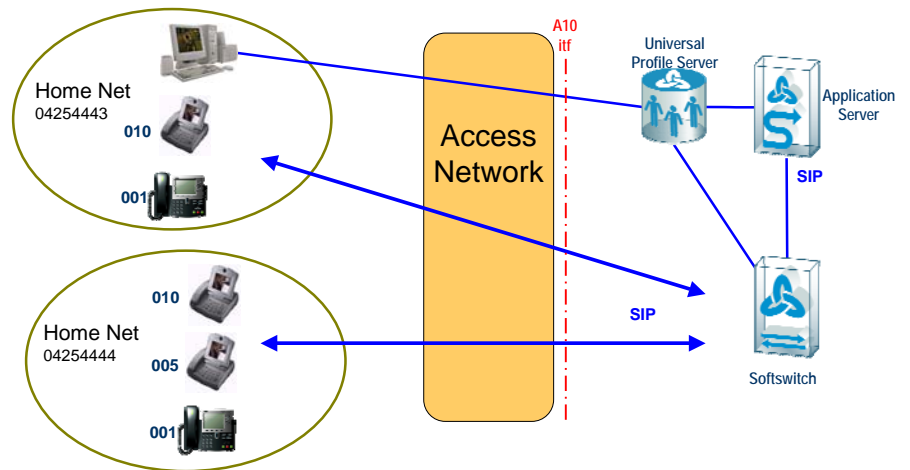
Multimedia communication

- ☐ Enhancement of call routing policies considering also the required media information.

Service provisioning

- ☐ User's services self provisioning.
- ☐ Independance between the service description and the execution environment.

Test plant logical view



Strategy

The test bed is derived from a commercial main release of Italtel's products enhanced with Medianet concepts.

The test bed itself is a demonstration of a full geographically distributed system.

The ASP network is located in Italtel's premises, and it is reached via VPN connection.

