

IP Working Group



IP Working group

Mission:

- Define a model for resources and devices in E@H system that is abstract and independent from a specific communication technology.
- Identify the communication interfaces of the E@H system and define a suitable IP based solution for these interfaces, considering already defined IP standards in the IoT domain;

Expected Results:

- Abstract model of E@H System
- Specifications of an IP protocol for E@H system, possibly as an extension of a standard one



IP WG Scope 1/3: E@H over IP

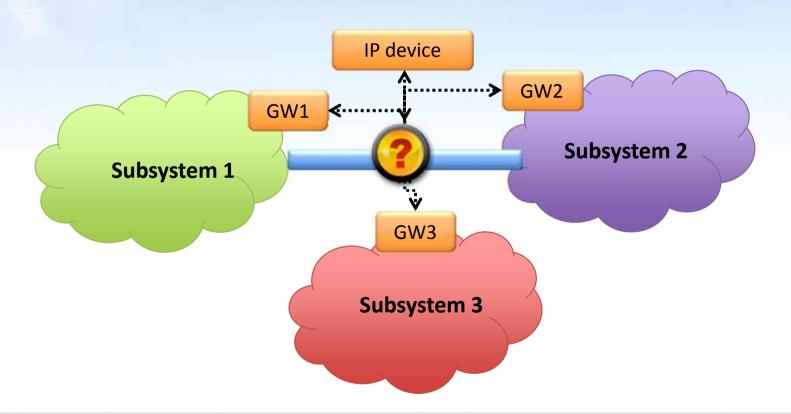
Define a suitable IP based solution for the communication interfaces of the HAN in the current E@H system.





IP WG Scope 2/3: Interaction with other system

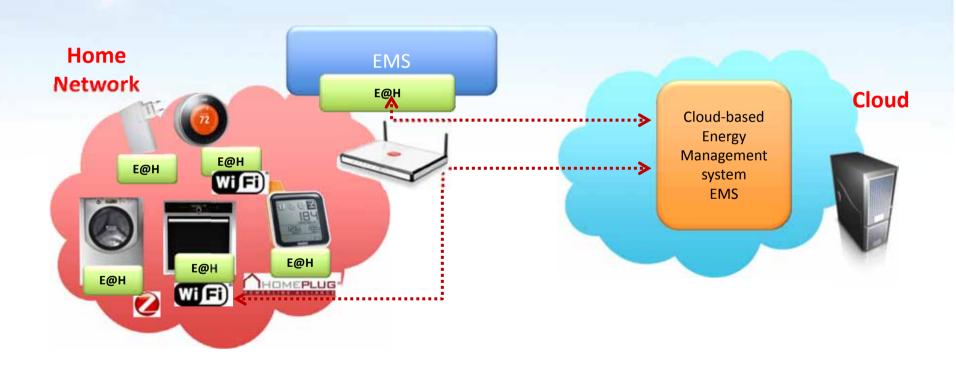
- Identify an IP-based technology for communication among subsystems.
- Extension of the devices is in the mission of the E@h Association.





IP WG Scope 3/3: E@H in the Cloud

Expose the devices in the E@H System to the Cloud (WAN)



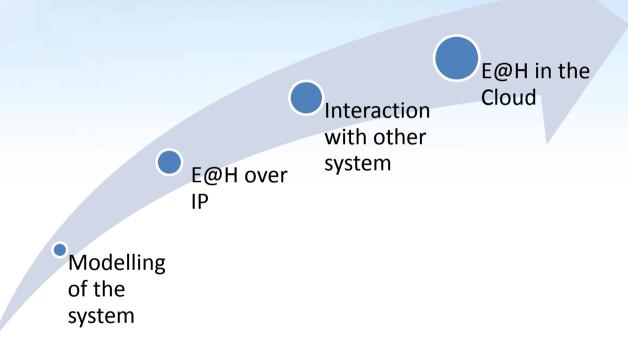


Standards under evaluation

Standard group	Application Protocols	Communication Protocols			
Smart Energy Profile 2.0	REST, HTTP, COAP	Wifi, Zigbee IP, HomePlug			
ECHONET - Energy conservation and Homecare network	Echonet	IrDA Bluetooth, WiFi, PLC, IPv6, LonTalk			
ZigBee Alliance	ZigBee PRO	ZigBee			
AGORA'	TBD	TBD			
UPnP HEMS/ DLNA	UPnP, SOAP	WiFi/Eth			
EEBUS	XML, KNX, UPnP, ZigBee	KNX, ZigBee, WiFi/Eth			
HOMELAB (OpenWebNet)	TCP/IP, UPnP, HTTP	WiFi/Eth			



IP Protocol Roadmap





Activity Planning

	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Standard Model Scouting												
E@H Model Definition												
Standard Protocol Scouting – Preliminary Selection												
Standard Protocol Scouting - Finalization												
Mapping E@H Model to the selected Standard IP Protocol												
E@H over IP Prototype											Star	t





Thanks for your attention