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A Guide to this Presentation

- The FMCA
- What is the FMCA's Product Requirements Definition (PRD) Document?
- Wi-Fi UMA & Wi-Fi SIP PRD Documents - Objectives
- Reasons for Engaging 3GPP CT1
- PRD timescales
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- Planned engagements with SDO's
- Working Together (Next Steps)

Please, see the attached Power Point Presentation.



**Fixed-Mobile
Convergence Alliance**

June 2005

**Wi-Fi SIP & Wi-Fi UMA Product Requirements
Definition
Overview for 3GPP CT1**

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- **PRD timescales**
- **Examples of key technical issues**
- **Planned engagements with SDO's**
- **Working Together (Next Steps)**

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The FMCA

- The Fixed-Mobile Convergence Alliance (FMCA) is a global alliance of telecom operators whose objective is to accelerate the development of Fixed-Mobile Convergence products and services.
- Total FMCA combined global subscriber base is now approx. 240 million.
- With 17 Members the FMCA is the fastest growing Operator Alliance.
- The majority of FMCA Members are consolidated operators (Fixed and Mobile Network Operators).
- An additional 19 Telcos have requested and received information on how to join the FMCA.

The FMCA Members



What is the FMCA PRD Document?

- The FMCA's Product Requirement Definitions (PRD) Documents are technical papers that contain the identified product requirements for the key Convergence Technologies (Bluetooth CTP, Wi-Fi UMA and Wi-Fi SIP).
- These documents work from the existing technical specifications, taking these to the level of detailed required to produce a Convergence product.
- An example would be the UMA specifications on handover; the PRD will cover the customer experience during that handover; e.g. whether the handset screen changes colour, an icon is presented or an audible tone is delivered.

Product Requirements Definition (PRD) Documents - Objectives

- Key Requirement:
 - To issue a set of Wi-Fi UMA and Wi-Fi SIP Product Requirements Definition Documents to industry by end Aug 2005 in order to drive the adoption of Convergence technologies.

- Key Objectives:
 - To achieve industry alignment and endorsement of the identified Wi-Fi UMA and Wi-Fi SIP Product Requirements.

 - To widen the scope of the Product Requirement Definitions documents by working with selected Standards Development Organisations (SDO's).

 - To ensure that identified Product Requirements, proposed solutions and matching technical issues are aligned with existing and future standards.

Reasons for engaging 3GPP CT1

- To align and widen the scope of the Wi-Fi SIP UMA and Wi-Fi SIP FMCA MS requirements by referring to existing and future 3GPP Terminal specifications
 - E.g. referencing particular FMCA requirements to existing and emerging 3GPP CT1 specifications and activities
- To review both outstanding and new technical issues identified by the FMCA that require further industry activity. Agreement on how appropriate issues can be fed into the 3GPP CT1 workflows for action.

PRD Timescales

- **Phase 1 – PRD development – May to end August 2005**
 - Deliver Wi-Fi UMA & Wi-Fi SIP PRDs.
 - Ensure PRD Credibility through the creation of solid interfaces with selected Standards Associations.
- **Phase 2 – Technology Migration Paper: June to end October 2005**
 - Deliver Wi-Fi UMA to Wi-Fi SIP Technology Migration Paper.
- **Phase 3 – PRD Reviews: August to end November 2005**
 - Review and revise PRDs based on standards and industry feedback

Examples of key technical issues

- Optimal security encryption for MS, e.g. WPAv2, IEEE 802.11i, IPsec VPN, etc
- Optimal authentication for MS, e.g. HTTP digest, ISIM, USIM, EAP SIM, Dual SIM, etc
- Solutions for supporting seamless autoconnect and handover to existing public Wi-Fi hotspots and APs
- Solutions for guaranteeing voice traffic prioritisation and QoS on an end to end basis.
- Solutions for providing call admission control at the access point to manage maximum number of simultaneous calls based on available backhaul capacity.
- Solutions to minimise end to end latency especially when in wireless mode and during AP to AP and wireless to cellular (or vice versa) handovers.

Planned engagements with SDO's (1)

- Wi-Fi Alliance – Wireless Cellular Convergence (WCC) Group
 - To ensure alignment of FMCA Product Requirements for Voice over Wi-Fi services, Wi-Fi enabled Mobile Stations and Access Points with Wi-Fi Alliance Certifications.
- 3GPP CT WG1 - Core Network and Terminals
 - To ensure alignment of FMCA Mobile Station (MS) requirements with 3GPP terminal specifications and work activities.
- 3GPP TSG SA WG1 - Services
 - To ensure alignment of FMCA service and feature requirements with 3GPP specifications and work activities.
 - E.g. standardisation of IMS-SIP / Wi-Fi - GSM/3G handover.
- ETSI TISPAN
 - To ensure alignment of FMCA Wi-Fi SIP and Wi-Fi UMA end to end Product Requirements with ETSI TISPAN activities and specifications.
 - E.g. alignment of service, protocol, QoS, security and mobility aspects

Planned engagements with SDO's (2)

- Home Gateway Initiative (HGI)
 - To ensure alignment of FMCA Product Requirements for home gateways with HGI recommendations/activities.
 - E.g. alignment of QoS, Connection Admission Control, Security, Authentication and Wi-Fi Association requirements.

Working together (next steps)

- FMCA is asking 3GPP CT1 Members to work together to identify and build a technical circle for on-going joint PRD reviews.
- FMCA to agree with 3GPP CT1 Members how appropriate technical issues can be fed into the 3GPP CT1 workflows for action.
- FMCA to issue top-level discussion papers to 3GPP CT1 by mid-June 2005.
- FMCA to agree with 3GPP CT1 Members the PRD review process (with timescales to align with end August 2005 FMCA PRD delivery date).



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