

Connected Homes Report 2011-2016: A Paradigm Shift in the Way we Live

https://marketpublishers.com/r/C31951B0BF5EN.html

Date: November 2011 Pages: 157 Price: US\$ 2,635.00 (Single User License) ID: C31951B0BF5EN

Abstracts

Why Operators Need the Connected Home

In an increasingly saturated market place operators continually struggle to find new revenue streams. The Connected Home offers the best potential for increased revenues, as operators partnered with content providers and OEMs can capitalise on the unique monestiable opportunities offered by an ecosystem of smart devices.

The Connected Home Value proposition

For operators the Connected Home offers to widen revenue stream as all households become high ARPU households. For content providers the Connected Home will provide a surge in demand for commercial content. Overall, the Connected Home's interoperability allows content and services to be delivered to ultimately more endpoints, thus increasing revenue opportunities for both content and service providers.

Life Cycle Stage

Although the Connected Home was once a mere concept, our research shows that many consumers are already utilising various devices and services for low-level smart home functionality. Building on a foundation of consumer interest ecosystem members and new market entrants must act swiftly in order to claim their stake in the \$231 billion dollar revenues we believe the Connected home will reap by 2016.

What is Different about this Report?

We conducted an independent and unbiased non-vendor affiliated assessment of the



Connected Home market. We surveyed and interviewed several key industry players to gain an in-depth view of the market. We believe such a research will help you in assessing the market potential and in designing Connected Home strategies.

Some of the key points researched and forecasted include:

How is the connected home ecosystem developing?

How can cloud be leveraged to offer connected home services?

What are the opportunities offered by connected homes to mobile network operators?

What are the economics of delivering digital media and communications to the connected home and where does the value lie?

What is the future of home entertainment?

What is the lifecycle stage of connected homes?

Which geographical regions offer the greatest growth potential for connected homes?

What will be the role of the tablet in the connected home?

What products will the service provider need carry to gain connected home market share?

What are the opportunities for app developers in the connected home arena?

What are the successful strategies for players to monetise in connected home market?

Who needs to read this report?

Operators - In an increasingly saturated market place, Connected Homes



represent the most significant new route for operators to widen revenue streams. Several key global operators have already positioned themselves to excel in the market place, so new entrants must act swiftly.

Content Providers - The Connected Home's promise of revolutionising the subscriber's life relies heavily on the provision of feature rich applications, HD quality content and virtually limitless monestiable opportunities.

OEMs - Connected Devices range from audio visual equipment to kitchen appliances. An ecosystem of connected devices creates a vast expanse of opportunities for OEMs, who stand to gain significant revenues from strategic Connected Home offerings.

Increase your understanding of this exciting market by ordering: Connected Homes Report 2011-2016: A Paradigm Shift in the Way we Live

Visiongain is a trading partner with the US Federal Government CCR Ref number: KD4R6



Contents

EXECUTIVE SUMMARY

- E1 Technology Convergence Essential for Connected Home Success
- E2 Life Cycle Stage about to Enter Rapid Growth Phase
- E3 The Value Proposition Everyone to Benefit from The Connected Home
- E4 Is the Connected Home an Inevitability?
- E5 Points Emerged from this Research

1. INTRODUCTION TO THE CONNECTED HOME

- 1.1 Defining the 'Connected Home'
- 1.2 Current Connected Home Market
- 1.3 The Three Screen Strategy
- 1.4 Evolution of Connected Homes
- 1.5 Enabling Technologies
- 1.6 Why Operators need the Connected Home
- 1.7 Aim of the Report
- 1.8 Questions Answered by the Report
- 1.9 Structure of the Report
- 1.10 Methodology

2. ECOSYSTEM PLAYERS - MAKING THE CONNECTED HOME WORK

- 2.1 Key Ecosystem Players Offerings
 - 2.1.1 Apple Connected Home Offering
 - 2.1.1.1 Funambol to Rival Apple's iCloud with MediaHub
 - 2.1.1.1.1 Funambol and the Potential for Operator Own Brand Cloud Services
 - 2.1.1.2 Apple's Next move Driving Connected Home Adoption Rates
 - 2.1.1.3 Apple to Make Connected TV?
 - 2.1.1.4 Summary Analysis of Apple's Connected Home Offerings
 - 2.1.2 Samsung's Connected Home Offering
 - 2.1.2.1 Samsung to lead in Smart TV Arena?
 - 2.1.2.2 Samsung Positioned to Lead in Connected Home Market
 - 2.1.2.3 Regional Analysis of Samsung Smart TV Sales
 - 2.1.2.4 Summary Analysis of Samsung's Connected Home Offering
 - 2.1.3 Cisco's Connected Home Offering
 - 2.1.3.1 Summary Analysis of Cisco's Connected Home Offering



- 2.1.4 Panasonic's Connected Home Offering
 - 2.1.4.1 Panasonic's Partnership with Dialog to Strengthen Connected Home Offering
 - 2.1.4.2 Summary Analysis of Panasonics Connected Home Offering
- 2.1.5 Microsoft's Connected Home Offering
 - 2.1.5.1 Windows Embedded Standard 7 Advantages
- 2.1.5.2 Microsoft in Direct Competition with Apple?
- 2.1.5.3 The XBox as Media Hub
- 2.1.5.4 XBMC
- 2.1.5.4.1 XBMC Remote
- 2.1.5.5 Summary Analysis of Microsoft's Connected Home Offering
- 2.1.6 Sony's Connected Home Offering
 - 2.1.6.1 PlayStation 3 as Media Hub A rival to the Xbox 360?
 - 2.1.6.1.1 Sony versus Microsoft Who has competitive edge?
- 2.1.6.2 Sony vs. Apple Who will Emerge as Leader?
- 2.1.6.3 Summary Analysis of Sony's Connected Home Offering
- 2.1.7 Toshiba's Connected Home Offering
- 2.1.7.1 Toshiba Attempting the Three Screen Strategy?
- 2.1.7.2 Summary Analysis of Sony's Connected Home Offering
- 2.1.8 Nokia's Connected Home Offering
- 2.1.8.1 Will Nokia's Connected Home Offering Expand?
- 2.1.9 LG's Connected Home Offering
- 2.1.9.1 Summary Analysis of LG's Connected Home Offering
- 2.1.10 Intel's Role in the Connected Home
- 2.1.11 Dell Partners with Operators to gain Stranglehold on Connected Home Market
- 2.1.11.1 Summary Analysis of Dell's Connected Home Offering
- 2.1.12 HP and Connected Entertainment
- 2.1.12.1 Summary Analysis of HP's Connected Home Offering
- 2.1.13 Motorola and Verizon to offer Connected Home Together?
- 2.1.13.1 Motorola and Verizon's Connected Home Offering to be a Success?
- 2.2 Key Ecosystem Players Overall Analysis of Connected Home Offerings

3. CONNECTED HOME CURRENT MARKET - CASE STUDIES

- 3.1 Digital Lifestyle Companies
- 3.1.1 The Connected Home: Digital Lifestyle Store Case Studies
- 3.2 Infrastructure Vendor Case Study
 - 3.2.1 Leviton
 - 3.2.2 Leviton Structured Wiring
 - 3.2.3 Cabling for the Connected Home



3.2.4 Structured Media Centres

- 3.2.4.1 Structured Media Centres for Multiple Dwelling Units
- 3.2.4.2 Structured Media Centres for Single Family Dwellings
- 3.2.5 Connected Home Application Solutions High Speed Networking
- 3.2.6 Connected Home Application Solutions Home Entertainment
- 3.3 Entropic Communications
 - 3.3.1 Entropic Communications Product Range
 - 3.3.2 Entropic Communications Applications
 - 3.3.3 Entropic Communications Company Information
 - 3.3.4 Connected Home Growth Drivers According to Entropic Communications
- 3.4 Software Vendor Case Study
 - 3.4.1 Twonky
 - 3.4.1.1Twonky Software Options for Connected Home
 - 3.4.1.2 Twonky Mobile Apps
 - 3.4.1.3 Monetising Connected Home Software
- 3.5 Technology Case Study
- 3.5.1 HD Video Streaming
 - 3.5.1.1 HD Streaming Barriers The Home Network
 - 3.5.1.2 Ensuring Interoperability to Encourage the Connected Home
 - 3.5.1.3 How to make HD Streaming a Simple Reality
 - 3.5.1.4 Analysis of HD Streaming Case Study
- 3.6 Operator Case Study
- 3.6.1 Everything Everywhere to use LTE for Smart Grid?
 - 3.6.1.1 Everything Everywhere in the M2M Space
 - 3.6.1.2 Everything Everywhere and Redtail Telematics
 - 3.6.1.3 Analysis of Everything Everywhere's Connected Home Market Standing

4. STANDARDISING THE CONNECTED HOME

- 4.1 Why must the Connected Home be Standardised?
- 4.2 Digital Living Network Alliance (DLNA)
 - 4.2.1 DLNA Members Analysis
 - 4.2.1.1 Analysis of Internet Service Provider Involvement with DLNA
 - 4.2.2 DLNA Roadmap
 - 4.2.3 The Enabling Technologies for the Connected Home
 - 4.2.3.1 DLNA Architecture
 - 4.2.3.2 Transparent Connectivity Between Devices Inside the Connected Home
 - 4.2.3.3 Unified Approach for Device Discovery Configuration and Control
 - 4.2.3.4 Interoperable Media Formats and Streaming Protocols



- 4.2.3.5 Interoperable Media Management and Control
- 4.2.3.6 Compatible Quality of Service Mechanisms

4.2.3.7 Compatible Authentication and Authorization Mechanisms for Users and Devices

- 4.2.4 Key Technology Components for the Connected Home
- 4.2.4.1 Networking and Connectivity IPv6 Concerns
- 4.2.5 Device and Service Discovery and Control
- 4.2.6 Media Format and Transport Model
- 4.2.7 Transfer Scenarios in the Connected Home
- 4.2.8 Media Management, Distribution, and Control

5. FUTURE LIVING - POTENTIAL USE CASES FOR THE CONNECTED HOME

- 5.1 Gauging End Users Needs for Future Uptake
- 5.2 Knowing What End Users Need Content Requirements
- 5.3 Analysis of Consumer Surveys
- 5.4 Understanding What End Users Need The Key to Success?
- 5.5 How Many Consumer Homes Already Have Connected Devices?
- 5.5.1 The Games Console's role in the Connected Home
- 5.6 Consumer Desire Marketing the Right Connected Home Features
- 5.7 The Connected Kitchen
- 5.7.1 Google and Connected Appliances

6. FORECASTS - OPPORTUNITIES FOR MONETISING THE CONNECTED HOME

- 6.1 Connected Home Penetration by Region 2010-2016
- 6.2 Global Connected TV Shipments 2010-2016
- 6.3 Global Smart Meter Installations 2010-2016

6.4 Global Revenues from Home Monitoring, Home Control and Home Automation 2010-2016

- 6.5 Global Revenues from Connected Home Health Services 2010-2016
- 6.6 Global Revenues from Connected Home Energy Management Services 2010-2016

6.7 Global Revenues from Connected Media Equipment and Media Management Services 2010-2016

6.8 Total Global Revenues from Connected Home Services and Devices 2010-2016

7. RECOMMENDATIONS AND CONCLUSIONS

7.1 Challenges and Recommendations



- 7.1.1 Challenges and Recommendations for Consumers
- 7.1.2 Product and App Developer Challenges and Recommendations
- 7.2 Value Proposition Are Compelling Products the key to Connected Home Success?
 - 7.2.1 Value Proposition for Consumers
 - 7.2.2 Value Proposition for Content Providers and Operators
 - 7.2.3 Value Proposition for Manufacturers
 - 7.2.4 Recommendations to Maintain and Extend the Value Proposition

LIST OF CHARTS

- Chart 2.2: 2nd Generation Apple TV Sales (2010-2011)
- Chart 2.5: Samsung Connected TV Sales (Q2 2011)
- Chart 2.7: Samsung Connected TV Sales by Region (2011)
- Chart 2.16: Smartphone Market Share by Vendor (Q3 2011)
- Chart 2.18: Regional Share of Xbox 360 Sales (2011)
- Chart 2.24: Regional PlayStation 3 Sales (2011)
- Chart 2.25: Comparative Global Sales of Xbox 360 and PlayStation 3 (2011)
- Chart 2.27: Global PC Vendor Market Share (2011)
- Chart 2.32: Market Share of the Major Fixed Broadband Providers in the UK (2011)
- Chart 2.39: Top 8 US Operators by Market Share (Q3 2011)
- Chart 2.42: Key Ecosystem Players Analysis Score
- Chart 3.8: Entropic Communications Quarterly Revenues (2010-2011)
- Chart 3.15: UK Operator Market Share (2011)
- Chart 4.4: Top 10 Global ISPs by broadband subscriptions (Q3 2011)
- Chart 5.2: Consumer Survey on Connected Home Desirability (2011)
- Chart 5.3: Consumer Survey on Most Desirable Media Type for Connected Homes
- Chart 5.4: % of Consumer Electronics already Connected in the Home
- Chart 5.6: % of Respondents with Different Devices in the Home
- Chart 5.9: Average Home Electricity Use
- Chart 6.1: Connected Home Penetration by Region 2011
- Chart 6.2: Connected Home Penetration by Region 2016
- Chart 6.3: Global Connected TV Shipments (2010-2016)
- Chart 6.4: Global Smart Meter Installations (2010-2016)
- Chart 6.5: Global Revenues from Home Monitoring, Home Control and Home Automation (2010-2016)
- Chart 6.6: Global Revenues from Connected Home Health Services (2010-2016)

Chart 6.7: Global Revenues from Connected Home Energy Management Services (2010-2016)

Chart 6.8: Global Revenues from Connected Media Equipment and Media Management



Services (2010-2016) Chart 6.9: Global Revenues from Connected Home Services and Devices (2010-2016)

COMPANIES LISTED

Acer Incorporated **Actions Microelectronics Actiontec Electronics** Advanced Digital Broadcast Airties Wireless Network Alcatel-Lucent Allegro Software Development Allion Test Labs Alpha Networks Alpha Systems Altec Lansing Australia Alticast Amlogic **Analog Devices** Aplix Apple ARCELIK A.S. ELEKTRONIK ISLETMESI ArcSoft Aricent Arkuda Digital **ARRIS Group** Askey Computer **ASUSTek Computer** AVM GmbH **Axis Communications** Bang & Olufsen **BBK AV Electronics Belkin Corporation Bose Corporation BOUYGUES** Telecom British Sky Broadcasting BT **Buffalo Cabot Communications**



Cameo Communications Canon **Casio Computer** CenturyLink Ceton **Charter Communications** Cisco **Cognizant Technology Solutions Compal Electronics** Conax AS **Conexant Systems** Cox Communications **CSC** Holdings CSR Cyberlink CyberTAN Technology **D&M Holdings** Dell Desay A&V Science and Technology **Deutsche Telekom** DigiOn DivX **D-Link Systems** Eastech Electronics (Taiwan) Eastman Kodak Company EchoStar Technologies Elgato Systems EMC **Entropic Communications Espial Group** ETRI Everything Everywhere Foster Electric Company France Telecom Fraunhofer **Frontier Silicon** Fujitsu Funai Electric Funambol



Fuzhou Rockchip Electronics Gemtek Technology Guangdong Hybroad Vision Electronic Technology Guangdong OPPO Mobile Telecommunications Haier Group Harman International Industries **HCL** Technologies Heartland Data **Hisense Electric** Hitachi HP HTC Humax HYUNDAI Digital Technology iCube iLook Corporation Imagination Technologies Imation INFOCITY Inkel Corporation Intel inXtron I-O Data Device Irdeto Jabil Circuit Japan Cable Laboratories JetHead Development JVC KENWOOD **KAONMEDIA KAT Digital** Kathrein-Werke **KDDI R&D Laboratories** KeyStone Semiconductor **KT** Tech LaCie Lenus Liberty Global LITE-ON IT LITE-ON Technology Loewe Opta



Logitech

Marvell International MediaTek Microsoft Mitsubishi Electric Mitsumi Electric Monsoon Multimedia MontaVista Software Morega Systems Motorola MStar Semiconductor Myriad Group NAD Electronics International Nagravision NDS **NEC** Corporation Nero AG Netgear Neusoft Nikon Nippon Telegraph and Telephone **Niveus Media** Nokia LG **Novatek Microelectronics Novatel Wireless** Nvidia **Oki Electric Industry** Olympus **ONKYO Oregan Networks** Pace **PacketVideo** Panasonic Pantech Parrot Patriot Memory PCCW Philips Consumer Lifestyle **Pioneer Corporation**



PLX Technology Prime Electronics & Satellitics **Realtek Semiconductor Renesas Electronics Corporation Research In Motion Rogers Communications** Rovi **RT-RK** Sagemcom Samsung Seagate Technology Seiko Epson Selex Elsag Semp Toshiba Amazonas Sigma Designs Sitecom Europe SK Telesys SKY Perfect JSAT Skyworth Multimedia (Shenzhen) sMedio SMSC/BridgeCo Sony Sony Ericsson Mobile Communications **Sphairon Technologies STMicroelectronics** Sumitomo Electric Industries Sunniwell Synology TCL **TechniSat Digital** Teleca Ltd **Telechips Telecom Italia** Telefonica TeliaSonera Telstra **Testronic Laboratories (Belguim) Texas Instruments Time Warner Cable**



Top Victory Investments Toshiba Toshiba Trident Microsystems (Far East) Ubee Interactive Ubicom Ubiquitous Ubivelox Uniden Valens Semiconductor **VIA** Technologies ViewSonic VisualOn VividLogic ViXS Systems Vodafone Group Services VTM Western Digital Wistron **WYPLAY** XXCAL Japan Yamaha Zhong Shan City Litai Electronic Industrial Zinwell Zoran ZTE **ZyXEL** Communications



List Of Figures

LIST OF FIGURES

- Figure 1.1: Connected Home Benefits
- Figure 1.2: Connected Home Three Screen Strategy
- Figure 1.3: Connected Home Technologies
- Figure 2.1: Apple TV
- Figure 2.3: iHome AirPlay Wireless Speaker System
- Figure 2.6: Samsung Smart Hub UI Screen
- Figure 2.9: Cisco IP NGN Architecture
- Figure 2.14: Microsoft Windows Media Centre
- Figure 2.19: XBMC
- Figure 2.20: XMBC app running on an iPhone
- Figure 2.22: Sony Entertainment Network
- Figure 2.29: LG Smart Refrigerator
- Figure 2.30: LG Smart TV
- Figure 2.34: HP MediaSmart Server Media Streamer
- Figure 2.35: HP TouchSmart PC
- Figure 2.36: HP Device And Services Analysis
- Figure 2.40: Connected Home Leaderboard
- Figure 3.1: Connected Home Solution Company Services Diagram
- Figure 3.9: Twonky
- Figure 4.1: DLNA Certified Logo
- Figure 4.3: DLNA Promoter Members
- Figure 5.1: Typical Modern Home
- Figure 5.8: The Connected Kitchen



List Of Tables

LIST OF TABLES

- Table 1.4: Report Structure Table 2.4: Apple Device and Services Analysis Table 2.8: Samsung Device and Services Analysis Table 2.10: Cisco Device and Services Analysis Table 2.11: Panasonic Device and Services Analysis Table 2.13: Windows Embedded Standard Table 2.15: Windows Embedded Standard 7 Advantages Table 2.17: Global Xbox 360 Sales (2011) Table 2.21: Microsoft's' Device and Services Analysis Table 2.23: Global PlayStation 3 Sales (2011) Table 2.26: Sony's Device and Services Analysis Table 2.28: Toshiba's Device and Services Analysis Table 2.31: LG's Device and Services Analysis Table 2.33: Dell's Device and Services Analysis Table 2.37: 4Home Available Plans and Options Table 2.38: Top 8 US Operator Subscriber figures (Q3 2011) Table 2.41: Key Ecosystem Players Leaderboard Table 3.2: Connected Home Case Studies Table 3.3: Leviton Company Profile Table 3.4: Residential Cable Types for Connected Homes Table 3.5: Structured Media Centre Enclosure for MDUs Table 3.6: Structured Media Centre Enclosure for Single Family Dwellings Table 3.7: Entropic Communications Product Range Table 3.10: Twonky Software Range Table 3.11: Twonky for Mobile Table 3.12: Twonky Software Pricing
- Table 3.13: Home Network Technologies
- Table 3.14: Streaming Digital Content Use Cases
- Table 4.2: DLNA Certified Device Classes
- Table 4.5: DLNA Contributor Members
- Table 4.6: DLNA Media formats for Home Devices

Table 4.7: DLNA Media formats for Mobile/Handheld Devices

- Table 4.8: Media Server and Media Renderer Services
- Table 5.5: % of Consumer Electronics already Connected Together in the Home
- Table 5.7: Ranking of Consumer Interest in Connected Home Features



Connected Homes Report 2011-2016: A Paradigm Shift in the Way we Live



I would like to order

Product name: Connected Homes Report 2011-2016: A Paradigm Shift in the Way we Live Product link: <u>https://marketpublishers.com/r/C31951B0BF5EN.html</u>

Price: US\$ 2,635.00 (Single User License / Electronic Delivery) If you want to order Corporate License or Hard Copy, please, contact our Customer Service: <u>info@marketpublishers.com</u>

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <u>https://marketpublishers.com/r/C31951B0BF5EN.html</u>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name: Last name: Email: Company: Address: City: Zip code: Country: Tel: Fax: Your message:

**All fields are required

Custumer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <u>https://marketpublishers.com/docs/terms.html</u>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970