CAT-iq / DECT ULE in the Home Network
OMA Workshop Abstract

The information in this presentation is public

Daniel Hartnett
Chairman CAT-iq Working Group
Dan Hermansen
Chairman DECT ULE Working Group
Oliver Maiwald
Board member and presenter
DECT World map
Year 2010
• CAT-iq
• What is CAT-iq
• Market Size
• CAT-iq Profiles
• Certification
• Integrating ULE
CAT-iq: Broadband Technology for New Services and Devices

CAT-iq is a registered Trademark in 47 countries worldwide

European Union: 25 countries
Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxemburg, Malta, Netherlands, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden

Additional Applications: 22 countries
Australia, Belarus, Bosnia-Herzegovina, Bulgaria, Canada, China, Japan, Croatia, Liechtenstein, Macedonia, Monaco, Montenegro, Norway, Romania, Russia, Serbia, Switzerland, Singapore, South-Korea, Turkey, Ukraine, USA
Industry Cooperation

CAT-iq
Cordless Advanced Technology

Home Gateway Initiative (HGI)
Gateway profiling &
Definition of operator requirements as input to market requirements

CableLabs
Adopting the specifications and collaborating to define consumer brand for HD voice service provision in the cable domain

DECT FORUM
CAT-iq MARKETING WG
Setting up and managing certification program
Managing Regulatory issues related to CAT-iq use

Liaison with HGI
Issues CAT-iq certification

Liaison with ETSI
Definition of market requirements as input to technical specification

Liaison with ETSI
ETSI TC DECT
Responsible for technical standardization

Issues the standard
Responsible for creation of test specifications

6
Traditionally:
• Discrete
  ▪ PSTN FXS
  ▪ DECT
  ▪ DATA
  ▪ Carrier and Retail

Today:
• Integration in GW and beyond
  ▪ FXS
  ▪ DECT
  ▪ WLAN...
• Trends
  ▪ VoIP adoption in DSL, PON, Cable, LTE, Tablet
  ▪ Corded to Cordless
  ▪ 2 FXS to 1 FXS
  ▪ Cordless replaces FXS
  ▪ Cost Parity DECT&FXS
  ▪ De-Coupling Base&Handset

Future:
• Expanding the scope
  ▪ Services (wideband, Multiple lines etc
  ▪ Increased number of devices (data)
  ▪ DECT ULE (Ultra Low Energy)
  ▪ Energy efficient Home Networking

- DSL VoIP DECT Ethernet Network Processor
- DECT/CAT-iq WLAN nxn, Gigabit Ethernet G.hn (100 Kbps - 1 Gbps)
Total shipments in 2011 down on 2010 due to BT and Comcast pulling DECT from Home Hub and HomePoint products.

Worldwide IAD attach growing to 19% in 2015.

2015 projected shipments of 25m.

DSL remains key, but fiber will overtake cable in 2014.
CAT-iq Profile Overview

“Voice”

CAT-iq 1.0
“HD-sound”
Products Available
{TS 102 527-1}

CAT-iq 2.0
“Multi Line”
Products Available
{TS 102 527-3}

CAT-iq 2.1
“Green”
Specification In Progress
{TS 102 527-5}

CAT-iq 3.0
“Internet Ready”
Specification Available
{TS 102 527-4}

CAT-iq 4.0
“Intelligent Networking”
Planned

“Data”

* Note that some data devices may incorporate voice services
## DECT

### CAT-iq Profile Overview

<table>
<thead>
<tr>
<th>“Voice”</th>
<th>“HD Voice”</th>
<th>“Multi Line”</th>
<th>“Green”</th>
<th>“Internet Ready”</th>
<th>“Intelligent Networking”</th>
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<td>Security</td>
<td>Address Book</td>
<td>Presence</td>
<td>“Internet Ready”</td>
<td>“Intelligent Networking”</td>
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<td>GW Integration</td>
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<td>Wideband G.722</td>
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<td>SMS</td>
<td>SUOTA</td>
<td>Home Control</td>
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<td>Light Browser</td>
<td>Surveillance</td>
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<td>Channel Bundling</td>
<td>Metering</td>
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<td>Instant Messaging</td>
<td>Security</td>
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<td>Ringtones</td>
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<td>Wallpaper</td>
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<td>Gaming</td>
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*Note that some data devices may incorporate voice services*
The CAT-iq certification program

- promotes CAT-iq to market stakeholders, e.g. end users, carriers, retailers as a technically credible implementation of **conformity to a set of standards** that will add value to their industry/lives.

- ensures **interoperability** of devices from multiple manufacturers for functionalities defined in CAT-iq. (Being compliant with CAT-iq standards tested comprehensively according to the functionalities defined as mandatory by the CAT-iq standards).

- ensures a mandatory level of **quality requirement** for specific product parameters to achieve **consistent user experience** of the different stakeholders.

- For more information see “CAT-iq Certification Overview”
CAT-iq 2.0 Certification

- CAT-iq 2.0 certification program, open & running
- Product listing can be found on [www.cat-iq.org/certification.aspx](http://www.cat-iq.org/certification.aspx)

### CAT-iq 2.0 Products

<table>
<thead>
<tr>
<th>Company</th>
<th>Product</th>
<th>Date of status achievement</th>
<th>Hardware version</th>
<th>Software version</th>
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<tr>
<td><strong>vtech</strong></td>
<td>Avant 5000</td>
<td>11-Feb-2011</td>
<td>35-007688-002-100</td>
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<td><strong>Gigaset</strong></td>
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<td><strong>CCT-ECH</strong></td>
<td>Speedphone 700 Portable Part</td>
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<td>Re15 RC10</td>
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<td><strong>Samsung</strong></td>
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<td>Speedphone 500 Portable Part</td>
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IOP – Critical for successful CAT-iq Deployment

http://www.etsi.org/plugtests/catiq/catiq.htm
• 2 Official ETSI Events Planned in 2012 (Venue tbd)
• 1 IOP event @ Cablelabs in December
• Continued alignment with Cablelabs on our Specification
• Multiple inter-company IOP (inofficial)
Integrating DECT ULE into CAT-iq: Intelligent Networking

IP Connectivity to Utilities

Smart Meters

Home Control Unit

CAT-iq GW
At the heart of the connected home
• CAT-iq is now a major Broadband Wireless technology in the Home Gateway
  ▪ Stable, Licensed, excellent reach with huge customer base

• With IP connectivity, CAT-iq becomes a vehicle for new Gateway-based Smart Home services
  ▪ VoIP, Light Data services
    ▪ Re-use of voice for surveillance, remote medicine,
    ▪ Re-use of Display for Diagnosis, Control, Data collection...

  ▪ Smart Home:
    ▪ P2MP, Multiple clients, Secure, QOS, simple protocols,

• DECT Forum and ETSI will build the highway to bring the profiles to market :
  ▪ Clean Standards
  ▪ Robust Test Specs
  ▪ Certification Programs (implying IOP)
More Information

- For more information about (add TOPIC. E.g. DECT ULE) please visit the DECT Forum website: [www.dect.org](http://www.dect.org)

- For direct enquiries:
DECT Forum Secretariat
Wabernstr. 40
3007 Berne – Switzerland
+49 160 9667 9696
secretariat@dect.org

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