

## **CAT-iq Developers Conference 2011**

# **Experiencing CAT-iq with Android OS**

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- **The Product**
- **Features Implementation**
- **Interoperability with Gateway**
- **Making it better**

# **Last Year's Important Question**



## Speedphone 700: Wireless Calls with Interactive Internet Services

September 1, 2011

- DECT mobile handset with touch display and interactive internet services
- Extremely high voice quality for calls using IP-based Telekom line
- CAT-iq technology

With the Speedphone 700, Deutsche Telekom is bringing a new top-quality DECT mobile handset to the market. The elegantly designed multi-talent has a backlit touch screen. The display shows 262,000 colors on an 8.1 cm screen diagonal, making the telephone's numerous functions easy and convenient to use. The Speedphone 700 offers many preset internet services, providing for instance for reading and answering emails directly on the mobile handset. The Speedphone 700 is designed for use with suitably equipped routers such as Telekom's Speedport W 723V and the new Speedport W 921V.....

## The World's First Interactive Home Phone with CAT-iq 2.0/DECT and WiFi running on Android OS

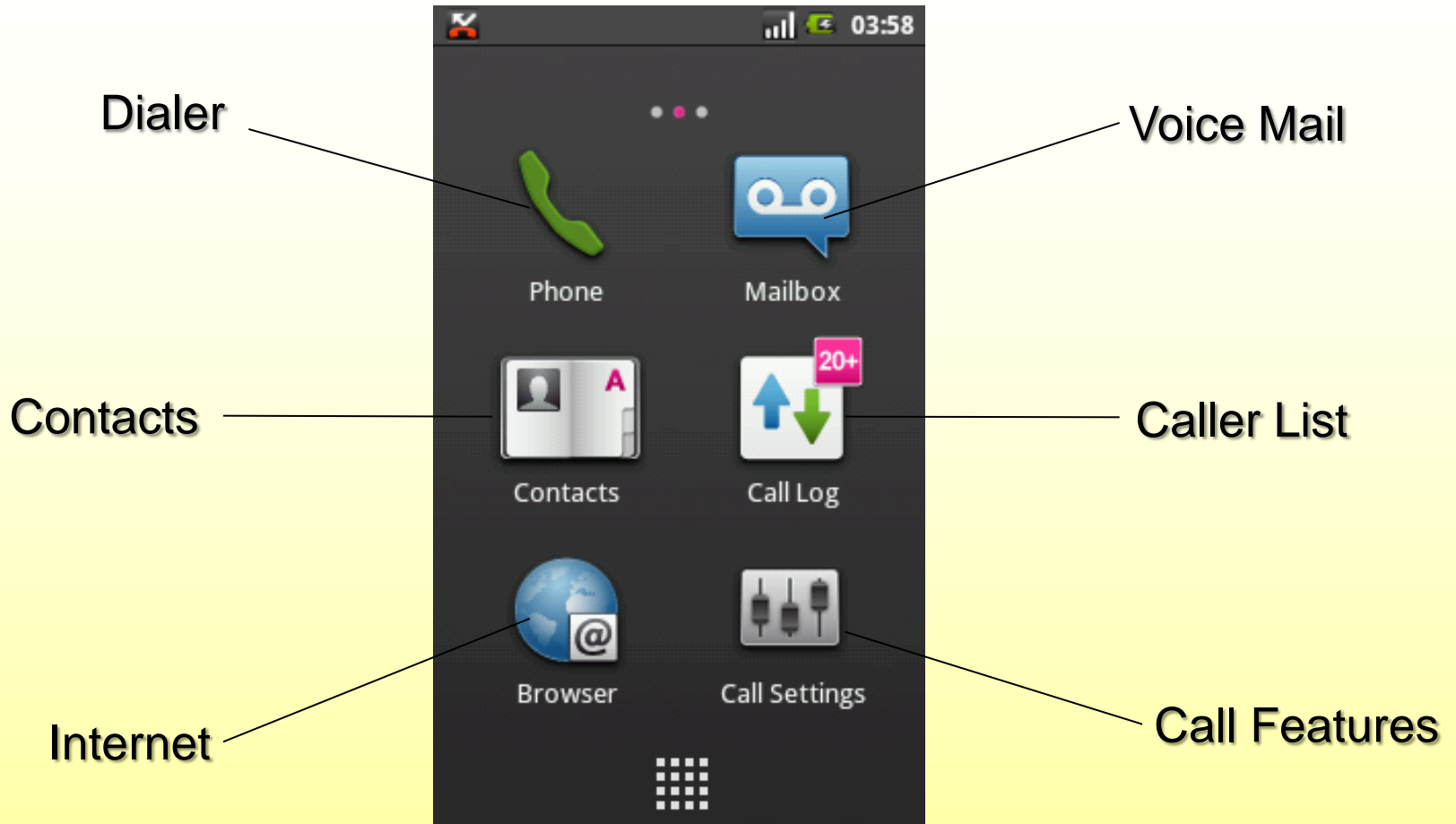
September 12, 2011

Hong Kong - CCT Tech International Ltd. (HKSE 261), a world leading manufacturer of telecommunication devices for the Home, announces that their newest advanced technology product has been introduced into the Market.

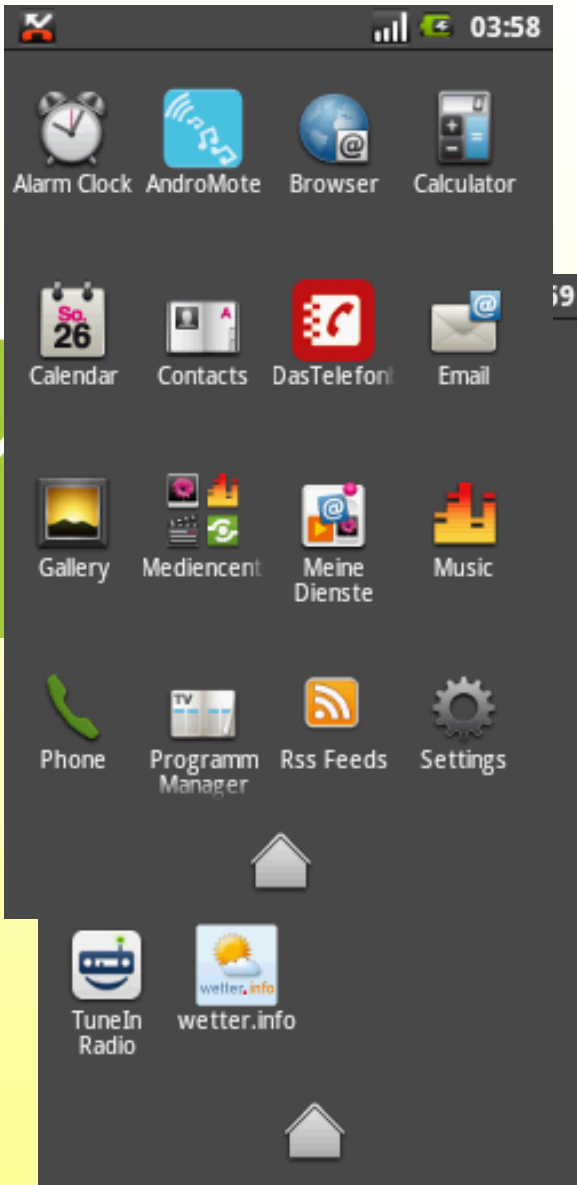
Deutsche Telekom, one of the world's biggest Telecom network operators just announced at IFA Show in Berlin the market launch of a new interactive Home Phone. The Phone has built-in WiFi Internet Access and CAT-iq 2.0, a High Quality voice service based on the new ETSI standard which is the advanced version of cordless DECT technology.....



- First Top Line CAT-iq 2.0 Home Phone running Android OS
- Providing applications which are useful on a Home Phone  
e.g. Online Public Phonebook, Weather Info
- Online Access to “Cloud Storage”  
e.g. Photos, Music etc.
- Support IP-TV Programming
- Support Info Service for News  
e.g. Reader for RSS Streams
- Music Playback  
e.g. Internet Radio, MP3 files
- Multi Media Remote Control for UPnP/DLNA



All Main Features at “one Glance” – Easy to Operate



- Android Functions
  - \* Alarm Clock
  - \* Calculator
  - \* Calendar
  - \* Email
  - \* Gallery (Picture Viewer)
  - \* Music Player (MP3)
- Standard Apps
  - \* Andromote (UPnP Client)
  - \* RSS Feeds (News Reader)
  - \* TuneIn (Internet Radio)
- Customer Apps
  - \* Online Phonebook
  - \* Online Storage
  - \* Online Services
  - \* Online IPTV Guide
  - \* Online Weather News

# Feature Implementation

	Android (WiFi)	DECT/CAT-iq
<b>Connectivity</b>		
User Interface	X	
WiFi	X	
Telephone		X
Software Update	X	(x) CATiq 3.0
<b>General Features</b>		
Internet Browsing	X	
Media Player	X	
E-Mail Client	X	
Utilities	X	
<b>Telephone Application</b>		
Dialer UI	X	
Base Connection/Dialing		X
Wideband Audio		X
Ringer Tones	X	
Caller ID (CLIP/CNIP)	X (UI only)	X
Contact List	X	
Phonebook content		X
Call log content		X
Multi Line Handling	X (UI only)	X
Conferencing	X (UI only)	X
Answering Machine	X (Local)	X (Network)
<b>Additional Applications</b>		
SIP/Skype	X (WiFi)	
Instant Messaging	X	X
RSS	X	X
Internet Radio	X	X
SMS	X	X
etc.		

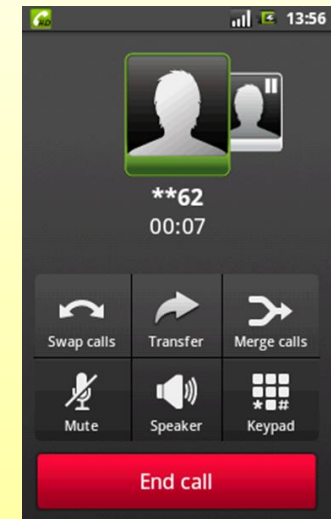
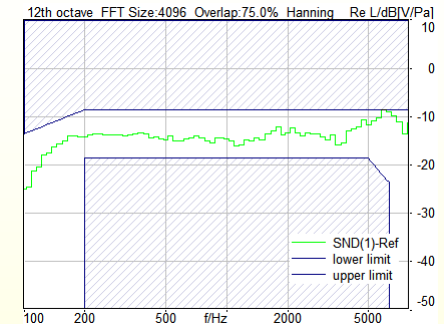
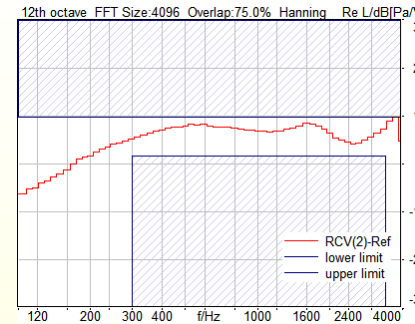
Android OS manages the Connectivity for UI and non-phone connections and CAT-iq delivers phone connection

High Speed data services are handled via WiFi by Android

Quality Telephone Service / Wideband Audio Voice incl. Supplementary Services are handled via DECT/CAT-iq

For such additional services both options are possible (WiFi or DECT/CAT-iq). It will depend on operator which services are offered

- **Wideband Audio (7Khz)**
- **Contact List Synchronization**
- **Caller List**
- **Line Selection**
- **Call Management**
  - \* Call on Hold
  - \* Add Call
  - \* Brokering
  - \* Transfer Call
  - \* Conference Call



- **SUOTA via CAT-iq was not implemented due to size of the firmware (> 60MB) -> firmware is updated via WiFi.**

- **Communication Functions**
  - \* Email
  - \* Online Telephone Numbers
  - \* Synchronization of Contacts & Calendar
  
- **Infotainment Functions**
  - \* RSS News
  - \* Weather Update
  - \* Internet Radio
  - \* IPTV Program Manager
  - \* UPnP / DLNA Remote Control
  - \* Online Media Storage for Music & Pictures
  
- **Service Functions**
  - \* Firmware Update with Notification
  - \* Active Sync Protocol

### **Special Features for Contact handling have been implemented**

- Contact List supporting different sources
  - \* Local Contacts (only stored at the phone)
  - \* Public Contacts (stored at the Gateway and shared with other phones)
  - \* Online Contacts (synchronized with Online account via Active Sync)
  - \* VCard Contacts imported/exported via SD Card
  
- Active Sync with Exchange Server
  - \* Contacts
  - \* Email addresses
  - \* Calendar dates
  - \* Email account

# **Interoperability with Gateway**

**CAT-iq 2.0 Certificate  
doesn't mean that .....**

**handset and gateway are being  
“interoperable”**

**The CAT-iq 2.0 Certification mainly assures the following:**

- Mandatory Protocol level is implemented as required by ETSI
- Acoustic is within the defined limits by ETSI

**The CAT-iq 2.0 Certification does not assure the following:**

- Services and features of the Gateway are working properly
- Acoustic is providing the expected quality within the “connected system”

## **Suggestions for further Improvements of the Certification Process:**

- Test cases need to be reviewed based on practical common operational test cases of gateways e.g. review of mandatory services
- Definition of reference units (handset & gateway) which are being used for minimum features “interoperability” as part of the certification

**.....this ensures that certified products are actually working**

# Making it Better

## **New Features and High Power Performance**

- Cortex CPU with the power of today's SMART phones
  - Application Processor for Communication features
  - Graphic Processor for 3D/2D
  - Video Processor for up to 1080p
- ..... and many more



THANK YOU FOR YOUR ATTENTION

