CAT-iq 2.0 MMI Software and Advanced GUI for Cordless Telephony

Comprehensive reference design for DCX chipset family

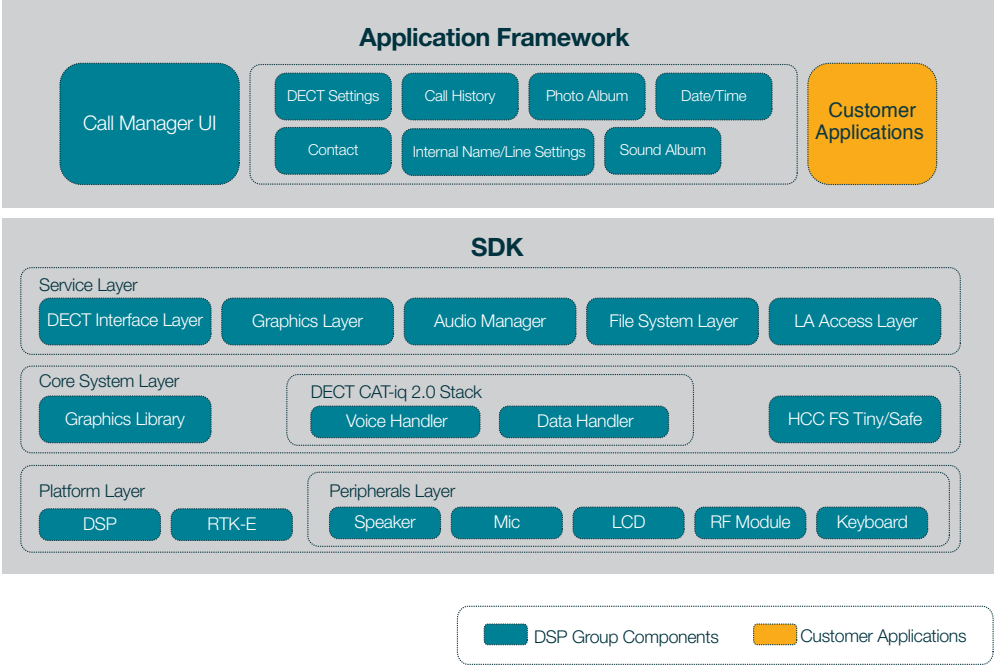
Because the exceptional is our standard

Overview

Given the growing demand for CAT-iq 2.0 systems, DSP Group™ has introduced a comprehensive CAT-iq 2.0 software reference design kit (SW RDK). The SW RDK provides full CAT-iq 2.0 functionality for the handset (HS), as well as a reference PSTN base station (BS) supporting CAT-iq 2.0 for HS interoperability testing. Powered by DSP Group's advanced DCX chipset family, the SW RDK operates across an array of mid-range black-and-white displays and high-end color LCDs featuring enhanced graphical user interface (GUI) systems.

Based on DSP Group's proven Scorpion SW package, the CAT-iq 2.0 SW RDK includes a set of APIs and application modules. These APIs simplify implementation of a CAT-iq 2.0 man-machine interface (MMI) that includes features such as list access, call control and event notification. The SW RDK helps customers implement the MMI via either a comprehensive CAT-iq 2.0 reference design or DSP Group applications that serve as a starting point for in-house implementation.

SW RDK Block Diagram



The SW RDK runs on DCX ROM and Flash single-chip platforms, offering full CAT-iq 2.0 functionality for the HS and a reference BS supporting CAT-iq-2.0. The broad range of functionality includes:

- Databases based on list access
- CAT-iq 2.0 mandatory and optional databases
- Cordless telephony use cases (e.g. missed call, voice message notification) via CAT-iq 2.0 generic event notification
- Interoperability with any CAT-iq 2.0 fixed or portable device
- Handset management of multi-line and wideband voice
- SMS (CAT-iq 2.1-ready)
- TAD (CAT-iq 2.1-ready)

In addition, the SW RDK offers a full GUI/MMI featuring a range of screens including idle, main menu, notifications, phone book, DECT settings, picture and sound album, date and time, call manager, and history manager.

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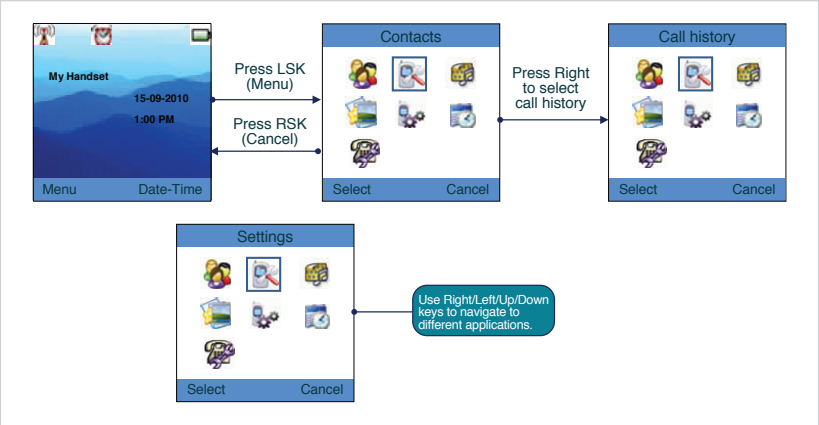
DSP Group User Interface (UI)



Advanced GUI Telephony

DSP Group also has leveraged its SW RDK to offer an advanced solution for high-end GUI enhanced telephony. Utilizing the Company's SW RDK and TES Electronic Solutions' GUIliani graphical engine, the solution runs over DSP Group's DCX advanced cordless telephony chipset family. The innovative, rich GUI offering enables fast time to market for high-end cordless CAT-iq 2.0 and standard DECT telephony solutions.

Graphical Engine Highlights

- Operation across DCXD9 with external SRAM interface
- Animation, widget and control library supporting bitmap and TTF fonts
- Smart re-draw, efficient rendering and UI composition
- International language support and run-time language switch
- C++ framework and tools for rapid UI development
- Powerful software renderer and high-quality graphics
- Anti-aliasing, bi-linear filtering, sub-pixel rendering and vector support
- XML-based UI skinning, resource management and animation control
- HMI editor – a WYSIWYG tool for rapid prototyping and deployment

DSP CAT-iq 2.0 SW RDK Utilizing TES' GUIliani

TES™ Electronic Solutions

DSP Group, Inc. (NASDAQ: DSPG) is a leading global provider of wireless chipset solutions for converged communications at home. Delivering system solutions that combine semiconductors and software with reference designs, DSP Group enables consumer electronics (CE) manufacturers to cost-effectively develop new revenue-generating applications with fast time to market. At the forefront of semiconductor innovation and operational excellence for over two decades, and with a growing share of the wireless home telephony market, DSP Group provides a broad portfolio of wireless chipsets integrating DECT, Wi-Fi, PSTN and VoIP technologies with state-of-the-art application processors. Enabling converged voice, audio, video and data connectivity across diverse consumer products – from cordless and VoIP phones to home gateways and connected multimedia screens – DSP Group proactively partners with CE manufacturers to shape the future of converged communications at home.

For more information, visit **www.dspg.com**

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