



Ecrio VoIP-VCC Engine

VoIP telephony is gaining momentum on both fixed and wireless networks. The convergence of fixed and mobile networks is driving the need for dual-mode devices that automatically hand over voice calls between WiFi and Cellular networks. VoIP and Voice Call Continuity (VCC) have become required features for these dual-mode devices. Ecrio offers a versatile VoIP-VCC engine for mobile handsets deployed over any IMS compliant network.



Standards compliant

Simplifies development of advanced IMS based applications

Real-time signaling and media components

Modular, real-time communication engines

Supports advanced mobile platforms

Proven experience in the mobile wireless industry

Flexible and Complete

The Ecrio VoIP-VCC Engine is part of the Ecrio standards compliant IMS product family that simplifies development of advanced IMS based applications. The engine provides application developers with a comprehensive API that hides the complexities of VoIP technology and facilitates rapid development of end-user VoIP/VCC based applications. The engine is optimized for mobile handsets with stringent resource demands. APIs are included for session and media management, comprehensive QoS featuring a dynamically controlled jitter buffer, and standard telephony features like Caller ID, call hold, call waiting, and conditional call forwarding.

Ready for Deployment

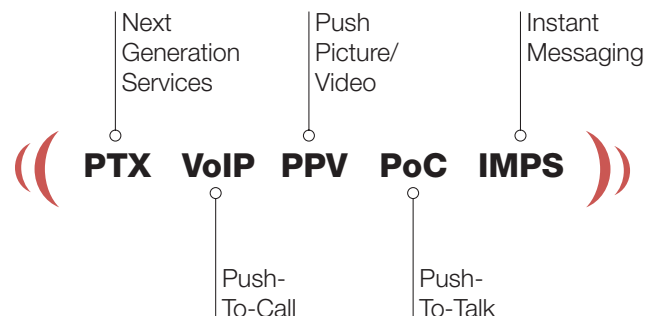
The Ecrio VoIP-VCC Engine is available for feature phones, smart phones and wireless personal digital assistants. Written in ANSI C, the engine supports advanced mobile platforms including Symbian OSTM (Series 60 and UIQ), Windows Mobile™ (Pocket PC and Smartphone edition) and LINUX O/S. The Ecrio VoIP-VCC Engine can also be ported to feature phone platforms running a real time operating system (RTOS).

Support for Industry Standards

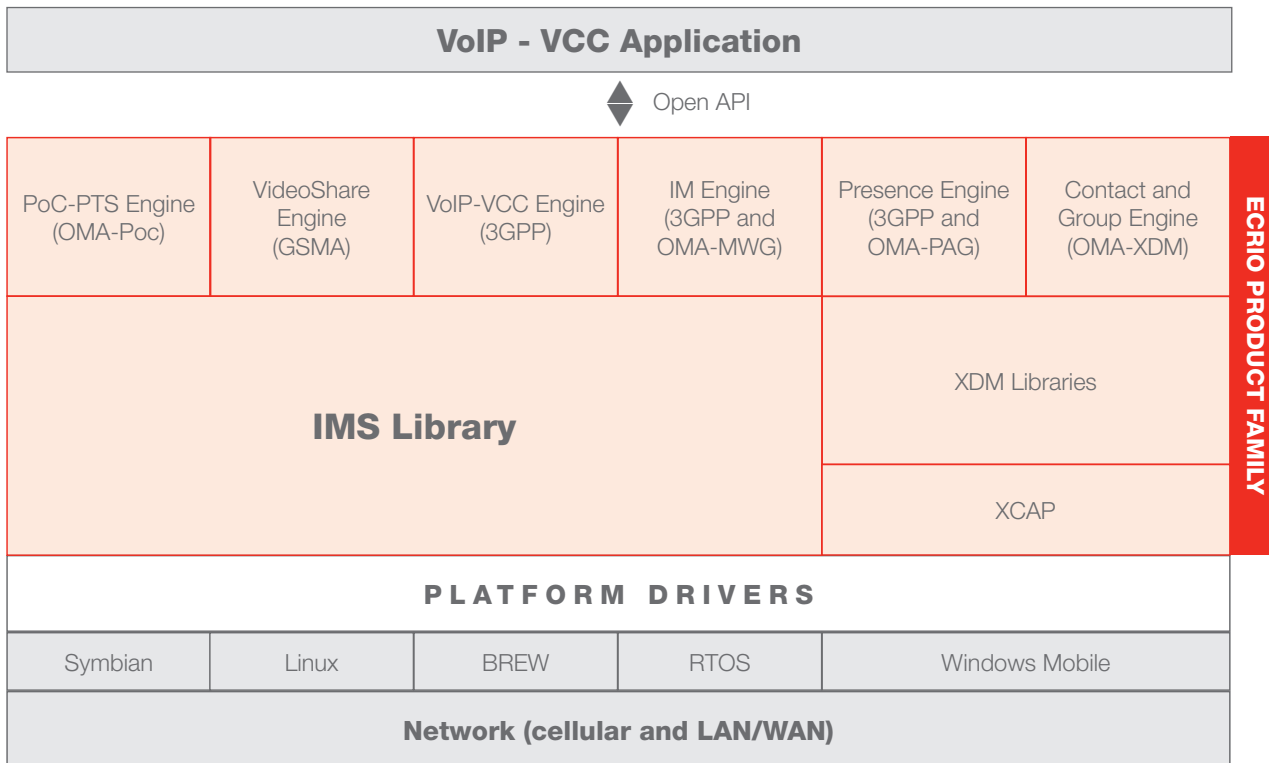
The Ecrio solution comes with the proven experience of a company that has repeatedly delivered standards compliant and interoperable solutions to the mobile wireless industry. The Ecrio VoIP-VCC Engine is fully compliant with the 3GPP IMS specifications and interoperable with deployed IMS compliant networks.

Extensible Applications

Ecrio's modular IMS product family provides a foundation for application developers to easily integrate advanced IMS features into new value-added and brand specific mobile wireless applications. For example, the VoIP/VCC application can be combined with a presence-based phone book and instant messaging for a richer, more satisfying customer experience.



VoIP-VCC Engine: Real-Time Communications Client Software



EcRIO VoIP-VCC Engine

- Media management (RTP/RTCP)
- Authentication & security (MD5,AKA)
- SIP session management
- NAT traversal through STUN
- Audio codec negotiation (SDP) (e.g. G.711/G.723, AMR)
- VCC compliant (3GPP 24.206)
- VoIP QoS support
 - Audio Echo Cancellation (AEC)
 - Noise suppression
 - Comfort noise injection
 - Dynamic jitter buffer control

IMS Compliance

- 3GPP IMS Compliant VoIP, VCC
- Signaling - SIP
- Media – RTP/RTCP

EcRIO VoIP-VCC Engine

- Flash, mute, redial, hang up
- Call timer and history
- Caller ID, missed call notify
- Dialing: SIP URI, TEL URI
- Do Not Disturb
- Call hold and waiting
- Call forward and transfer (future)
- 3-way audio conferencing (future)
- P2P and server based configurations

Platform Support

- Symbian OS
- LINUX
- Window Mobile 5.0, PocketPC
- BREW
- RTOS (Feature Phones)



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