ENEA® MGC-BRICKS MGCP

MGCP Media Gateway Control Protocol for Residential Gateways and Cable Modems

Enea® MGC-Bricks MGCP is a portable software package written in ANSI C implementing the Media Gate Control Protocols (MGCP) in a Media Gateway Controller (MGC) and a Media Gateway (MG).

Enea MGC-Bricks MGCP is based on Enea’s Netbricks architecture using object-oriented design and a message-passing mechanism for inter-entity communication. Enea MGC-Bricks MGCP interfaces to UDP through BSD-like Sockets. Interfaces to many commercial operating systems are available, including Microsoft Windows NT/2000/XP®, RedHat Linux®, MontaVista Embedded Linux®, Solaris® (32/64 bit), VxWorks®, AMX®, Nucleus®, PSOS+®, Enea OSE®, RTC®, VRTX®, and many others.

Enea MGC-Bricks MGCP is designed for the OEM market. Enea can develop custom products based on Enea MGC-Bricks MGCP technology according to customers’ specifications.

Enea MGC-Bricks MGCP

Software Architecture

Enea MGC-Bricks MGCP consists of the following components:

- System Management: SM
- UDP BSD Socket Adapter: BSD sockets convergence layer
- MGCP: MGCP entity (MGCP FSM, Transport Layer) usable in both MG and MGC
- SDP Library: SDP encoding/decoding routines common to Netbricks NGN software products: Enea® SIP-Bricks, Enea® Megaco-Bricks
- MG Call Manager: a Media Gateway Customizable Application that eases and simplifies Media Gateway development

Support of multiple instances and both sides MGC and MG on a single system

Dynamic provisioning and re-provisioning

MGCP finite state machine with security

Support of the following event/signal packages:
- Support of all transactions
- MGCP messages (including SDP session description) text encoder/decoder
- Support of the following event/signal packages: GM, DTMF, MF, Line, Trunk, RTP, NAS, supplementary services tones, digit map extension, signal list, media format parameter, resource reservation
- MGCP finite state machine with security procedures over UDP
- Dynamic provisioning and re-provisioning
- Support of multiple instances and both sides MGC and MG on a single system

Enea MGC-Bricks MGCP is compliant with the following standards:
- IETF RFC 3435 (MGCP 1.0 obsoletes RFC 2705)
- Packet Cable Call Signaling Protocol
- IETF RFC 2327 (Session Description Protocol)
- IETF RFC 3660 (Basic MGCP Packages)

Enea MGC-Bricks MGCP facilitates millions of transactions each day in our customers’ applications.

It also supports the following features for both Media Gateway Controllers and Media Gateways:
- UDP convergence layer
- MGCP messages (including SDP session description) text encoder/decoder
- Support of all transactions
- Support of the following event/signal packages: GM, DTMF, MF, Line, Trunk, RTP, NAS, supplementary services tones, digit map extension, signal list, media format parameter, resource reservation
- MGCP finite state machine with security procedures over UDP
- Dynamic provisioning and re-provisioning
- Support of multiple instances and both sides MGC and MG on a single system

Enea MGC-Bricks MGCP is based on Enea’s Netbricks architecture using object-oriented design and a message-passing mechanism for inter-entity communication. Enea MGC-Bricks MGCP interfaces to UDP through BSD-like Sockets. Interfaces to many commercial operating systems are available, including Microsoft Windows NT/2000/XP®, RedHat Linux®, MontaVista Embedded Linux®, Solaris® (32/64 bit), VxWorks®, AMX®, Nucleus®, PSOS+®, Enea OSE®, RTC®, VRTX®, and many others.

Enea MGC-Bricks MGCP is designed for the OEM market. Enea can develop custom products based on Enea MGC-Bricks MGCP technology according to customers’ specifications.

Enea MGC-Bricks MGCP

Software Architecture

Enea MGC-Bricks MGCP consists of the following components:

- System Management: SM
- UDP BSD Socket Adapter: BSD sockets convergence layer
- MGCP: MGCP entity (MGCP FSM, Transport Layer) usable in both MG and MGC
- SDP Library: SDP encoding/decoding routines common to Netbricks NGN software products: Enea® SIP-Bricks, Enea® Megaco-Bricks
- MG Call Manager: a Media Gateway Customizable Application that eases and simplifies Media Gateway development

Enea is a global software and services company focused on solutions for communication-driven products. With 40 years of experience Enea is a world leader in the development of software platforms with extreme demands on high-availability and performance. Enea’s expertise in real-time operating systems and high availability middleware shortens development cycles, brings down product costs and increases system reliability. Enea’s vertical solutions cover telecom handsets and infrastructure, medical, industrial automation, automotive and mil/aero. Enea has 750 employees and is listed on Nasdaq OMX Nordic Exchange Stockholm AB. For more information please visit enea.com or contact us at info@enea.com.

www.enea.com