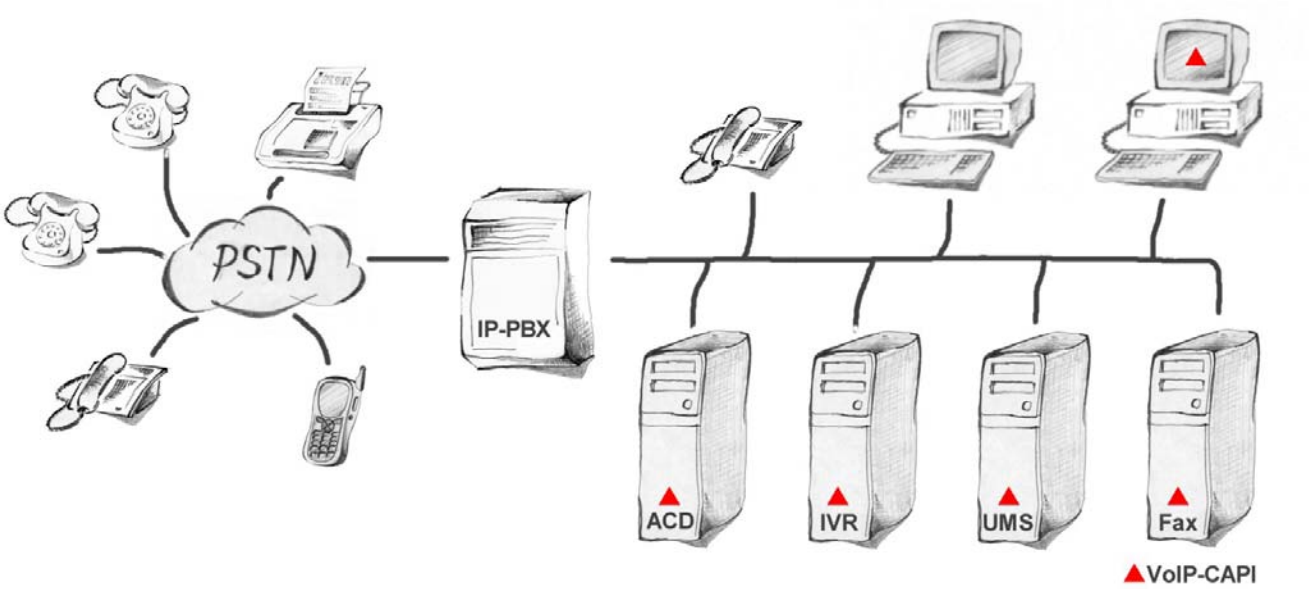
VoIP-CAPI

The virtual ISDN Card for VoIP Networks



General

Many existing Voice and Fax Applications, e.g. UMS, ACD or IVR Solutions use CAPI (Common ISDN Application Programming Interface) to support Connections via ISDN. Up to now H.323 or SIP Protocol Stacks had to be integrated with these Applications to support VoIP based Infrastructures. Therefore time and cost-intensive Modifications of the Software were necessary, as there has been no Solution to use the simple and standardised functions of CAPI.

The VoIP-CAPI now allows to easily integrate Voice and Fax Applications in VoIP based Infrastructures. VoIP-CAPI behaves like a virtual ISDN Card which communicates with the VoIP Gateway or the Soft-PBX via H.323 or SIP. Usually the Application can be used without any Modifications.

For the Development of new Applications using VoIP-CAPI is also an interesting alternative to expensive Source Code Products with proprietary APIs.

It is also possible to use VoIP-CAPI based Applications in pure IP based Networks, e.g. for Internet Telephony and Fax over DSL Connections.

Features

- Simple Installation on Windows 2000, XP, 2003 and Linux.
- No special Requirements regarding the PC Hardware.
- CAPI 2.0 Interface to the Application (CAPI4Linux compatible).
- Support of Voice, Fax and Data.
- VoIP Protocol H.323 and SIP incl. T.38 Real-time Fax over IP.
- Flexible Configuration with a separate Application.
- Support of up to 240 Channels (depending on the Performance of the PC).
- Demo Application for simple functional Tests.
- Compatibility tested with many VoIP Gateways and existing CAPI Applications.
- Simple and flexible Debug Module for the location of possible Problems.
- Integrated ISDN and DECT Interworking (for ISDN Cards and DECT Base Stations).
- Porting to other Operating Systems and Integration of other Protocols on Request.

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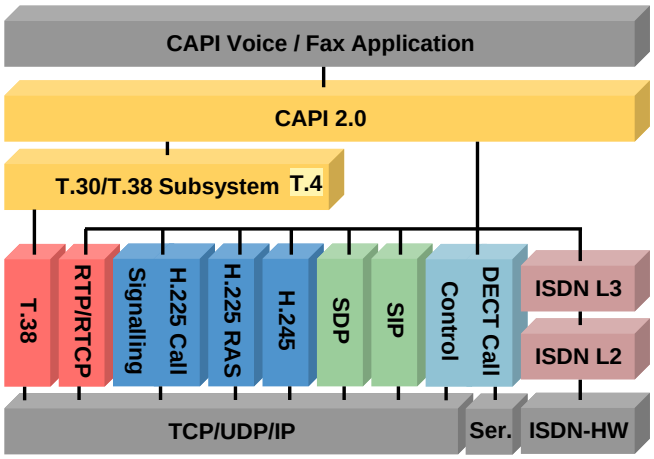
Technical Details

CAPI Features

- Basic Call according to CAPI 2.0, 4th Edition.
- Support of the services Speech, 3.1kHz Audio, Group 2/3 Facsimile and Unrestricted Digital Information (option) with the relevant B-Channel protocol Parameters.
- Supplementary Services MSN/DDI, CLIP, Hold (based on H.450.4), Explicit Call Transfer (ECT, based on H.450.2 and Cisco) and Redirecting Information.
- Line Interconnect (also with ISDN and DECT Lines).
- Send and Receive DTMF Tones.
- G.711 a-law/µ-law Conversion.
- Up to 8 Controllers with up to 30 B-Channels each (all controllers behave like ISDN Cards in Point-to-Point configuration).

VoIP-CAPI functional Overview



H.323/SIP Features

- Integrated innovaphone H.323 and SIP Stack, Support of H.245, H.225 Call Signalling and RAS and H.450, as well as Voice Data Transfer via RTP/RTCP and Fax Data Transfer via T.38 according to H.323 Annex D (also with SIP).
- Configuration of related Gateway/Gatekeeper for every Controller – Support of separate Voice and Fax Gateways and Redundancy Solutions.
- Support of RAS for Registration as Gateway at the Gatekeeper.
- Codecs G.711 a-law/µ-law and G.726 (DECT), G.729 coming soon.

ISDN and DECT Features

see separate data sheets.

Fax Features

- Data Encoding and Decoding according to ITU T.4.
- Fax Group 3 up to 14.400 Baud.
- Data transfer methods MH, MR, MMR and ECM.
- User defined Headlines.
- Fax on Demand and Fax Polling.

Advantages of VoIP-CAPI

- No changes necessary in CAPI based Voice and Fax Applications to achieve full VoIP Integration.
- Extremely short Time-to-Market for VoIP Products.
- Highest possible Compatibility is reached by using the reliable and widespread innovaphone H.323 and SIP Stack.
- Practically no Hardware Restrictions regarding the number of Voice and Fax Channels.
- Number of Channels easily expandable by means of Licensing.

ikon VoIP Portfolio (Excerpt)

ikon **RTP/RTCP Protocol**

ikon **T.30/T.38 Software**

ikon **Professional Services**

About ikon

ikon GmbH delivers Products and Development Services with main Focus on Telecommunications. Since its Foundation in 1988 ikon GmbH is a reliable Partner for customer specific Development in the Telecommunication Sector.

Parts of our Product Portfolio are several Protocol Stacks and Software Modules for Technologies like ATM, DECT, ISDN, VoIP, Frame Relay, MPLS, IP-Routing and V5.x.