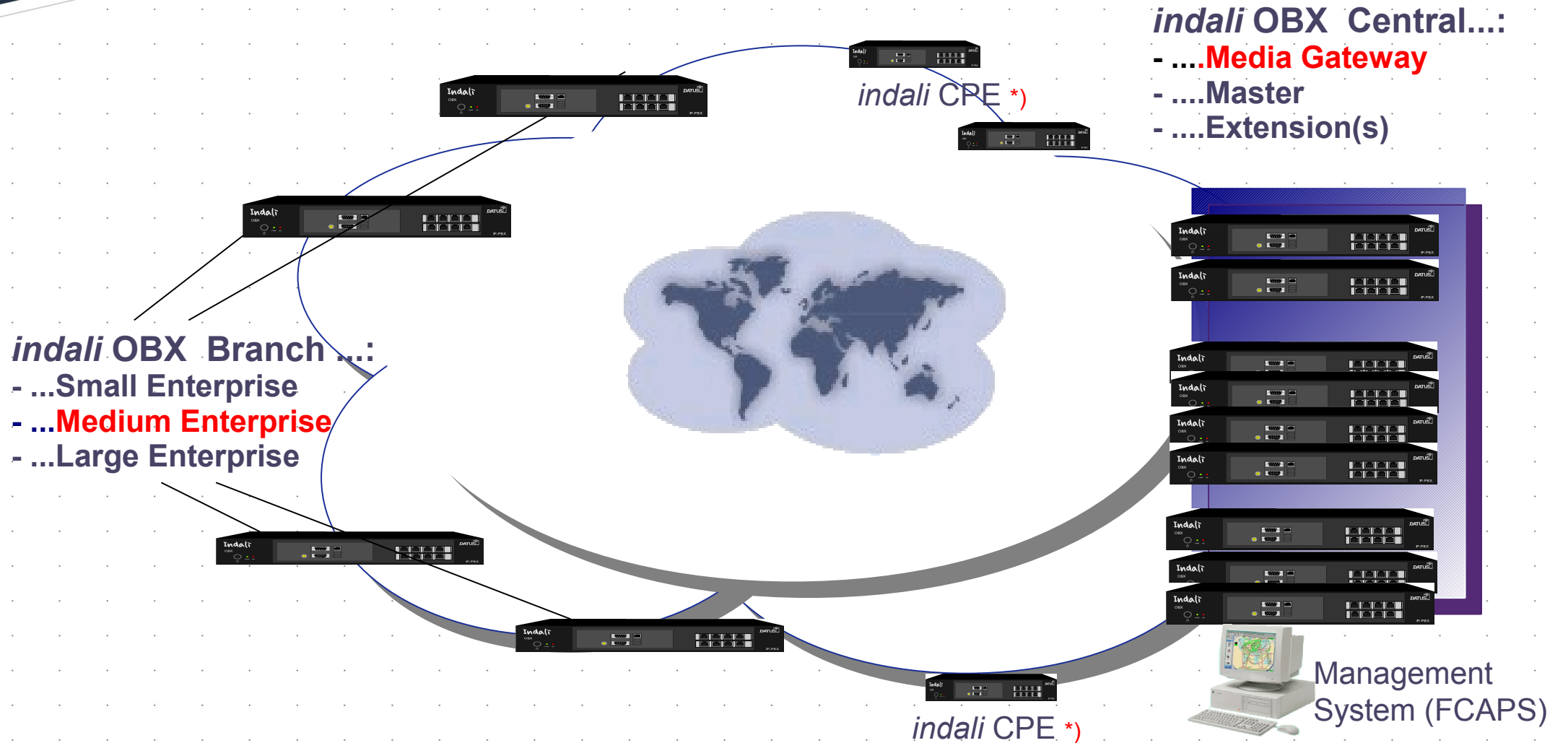




*DATUS Open Communication Systems
indali OBX IP-PBX*

indali OBX System Family - Overview



DATUS indali OBX IP-PBX:

- open System-Architecture (Embedded HW, LINUX, ASTERISK)
- Interfaces (2 x FE, up to 8 x BRI, up to 4 x FXS/FXO)
- Business Telephony-, Fax- and System-Features
- Chef-Secretary., Call-Back, Number- and Name-Indication etc.
- Unified Communication – CTI, ACD, Fax-, Voice-, Mail-Server
- open for miscellaneous SIP-Phones (e.g. SIEMENS, SNOM, ...)

DATUS indali OBX IP-PBX Mediagateway:

- open System-Architecture (Embedded HW, LINUX, OpenSER)
- SIP-Exchange
- Switching, Authentication, Registration of SIP-Traffic
- Feature-Conversion between different SIP-Derivates



Open Source-based IP-PBX with ISDN-like Quality

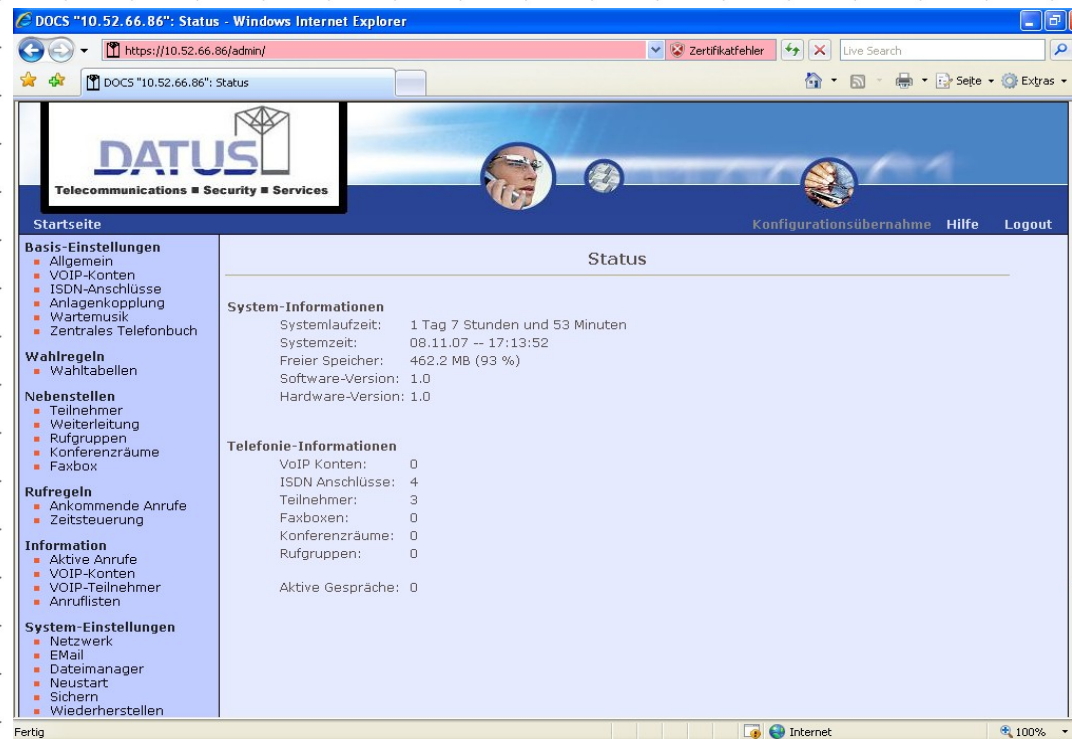
The *indali OBX* is a full-fledged PBX based on IP. It provides a VoIP telephony entry, without renounce of accustomed ISDN-PBX comfort. The *indali OBX* combines the flexibility and saving potentials of IP telephony with the functionality and the quality of ISDN-PBX.

Due to the “**Open Source**“ based system-architecture the *indali OBX* is absolutely “**non-proprietary**” and with its standardized interfaces it is easily integrated into already exciting telephony infrastructures.



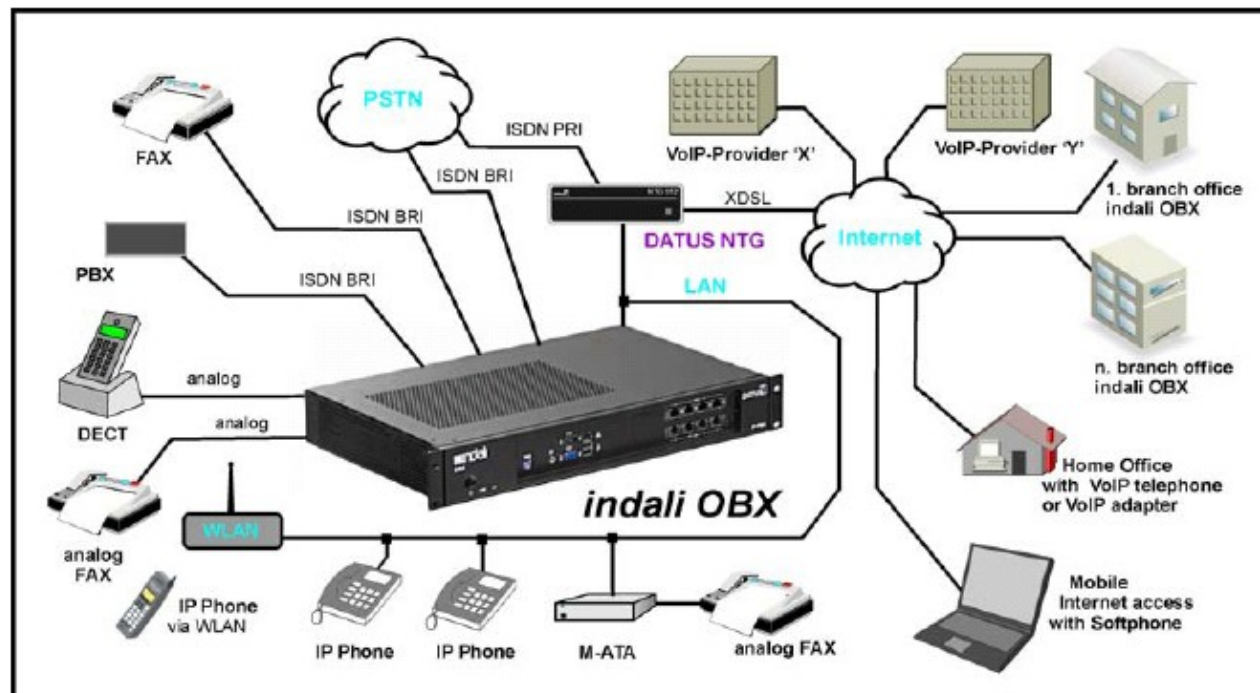
Intuitive WEB-based Graphical User Interface

The *indali* OBX is easily operated by its intuitive **WEB-based GUI**. Thus adjustments and configurations of company and user specific requirements are implemented with minimum effort.

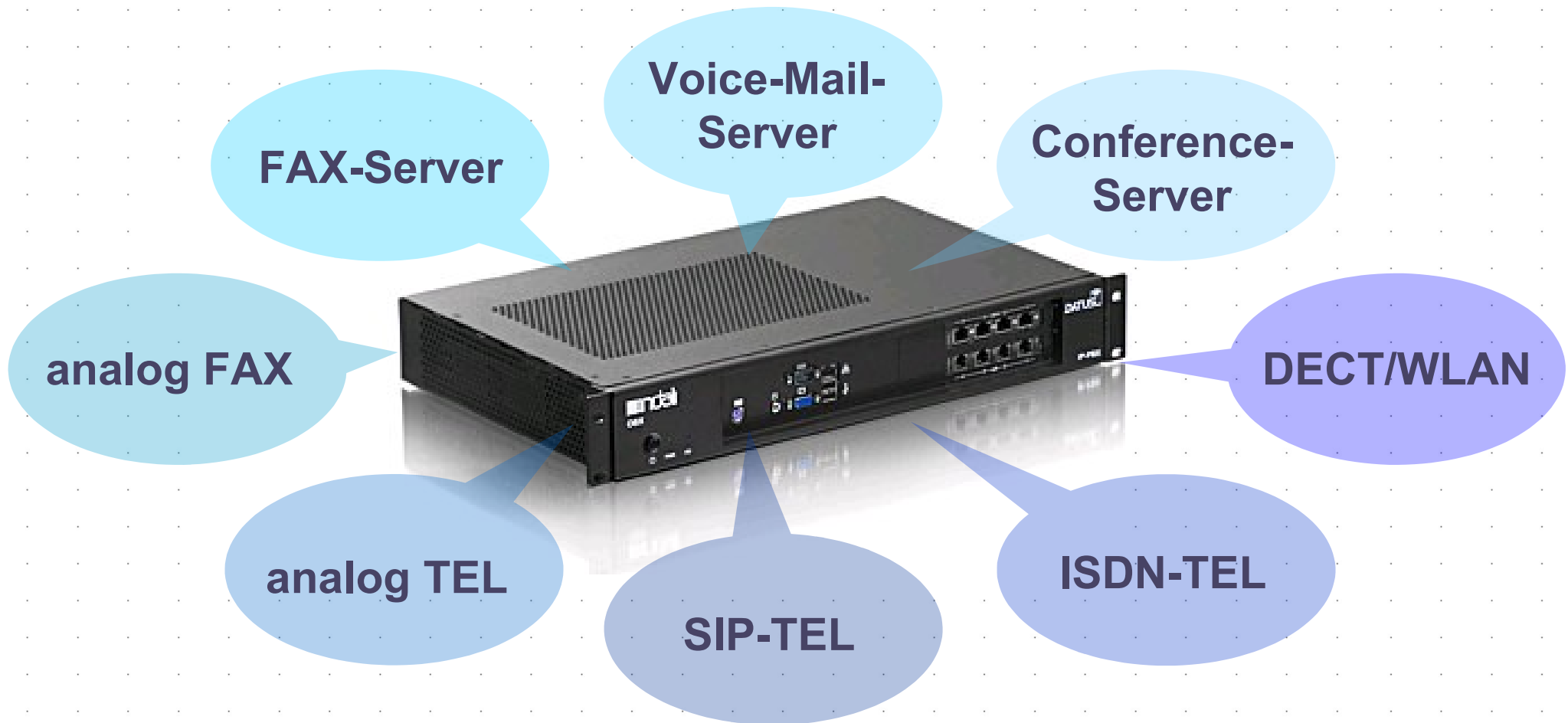


Cost-efficient through unlicensed Software

At *indali OBX* the number of extensions is unlimited and there are **no license fees** required for subscriber quotas. The IP-PBX supports up to **60 parallel calls**. Further on it provides ISDN (NT/TE) and analogue ports (e.g. fax).



Integrated Applications and Interfaces



Communication Applications



* scheduled

Integrated Communication Server

Voice-Mailbox:

- Mailbox-Access via WEB-Browser or Telephone
- Remote Access to Mailboxe
- Notification by E-Mail
- Voice-Mail by E-Mail

FAX-Server:

- Integrated FAX-Server
- Forwarding by E-Mail

Conference-Server:

- Authentication by PIN Code
- Moderated Conferences

Faxboxen

Rufnummer*:

Alias Name*:

Faxmail Empfänger:

Fax Format: ▼

Abrufberechtigter Teilnehmer: ▼

(* - Wert zwingend erforderlich)

Faxboxen

Rufnummer	Alias Name	Faxmail Empfänger	Fax Format		
2180	Faxbox vom Meister	Meister@Meister.de	pdf		
2184	Faxbox-Vertrieb	merkmann@teichfeld.com	pdf		

<< -< -1- >>

Unified Communication 1

Media-Integration, e.g.:

- Integration of existing Telephony-Infrastructure (ISDN, analogue, GSM, PSTN)
- „One Numbering“ – ubiquity with one number (office, home office, abroad, ...)
- „Fax to E-Mail“ – integrated Fax-Server, individual Fax-receipt everywhere and at any time (by E-Mail)
- IVR and „Voice Mail“ – integrated Voice-Mail-Server, individual Voice-Mail, forwarded as E-Mail

Unified Communication 2

Presence-Information, e.g.:

- Presence-Monitor – visualization of subscriber presence, individual notification of absence causes
- ACD – automatic call distribution caused by presence causes and statistical evaluations
- Call forwarding, call switching due to presence information
- Initiation of conferences and creation of virtual conferencing rooms

Unified Communication 3

Context-Integration, e.g.:

- Integration of existing ERP and/or CRM systems (e.g. MS-Outlook, Lotus-Notes, SAP, Navision)
- Integration of individual ERP/CRM solutions via standardized interfaces
- Utilization of global and personal phone books
- „Click to Dial“ from applications and phone books
- Automatically pop-up of customer information by incoming call

Cooperation-Features, e.g.:

- Individually adjusted „Application Sharing“ via standardized interfaces

Telephony-Features 1

- Call Waiting (CW)
- Coupling of PBX (IAX2 / SIP)
- Coupling of PBX (IAX2 / SIP)
- Call pickup (pickup groups)
- Call forwarding on "line busy" (CFBS), on "no response" (CFNR), "always" (CFU), "unregistered phone"
- Messages to caller before telephone answer
- Automatic outside line access
- Automatic fallback if pre-selected provider fails
- "Busy" indication by lamp field (BLF)
- Call Data Records (CDR)
- Call Through
- "Chef-Sec" management assistance functions

Telephony-Features 2

- Three-party conference
- DTMF inband/outband, DTMF via SIP INFO
- Automatic call distribution groups (ACD) ('parallel', 'linear', 'more and more')
- Interactive voice response (IVR) via DTMF control (voice menu)
- *Two-touch memory (scheduled)*
- LCR (Least Cost Routing) for ISDN and VoIP
- Broker's call (hold)
- Message Waiting Indicator (MWI)
- *Terminal portability (scheduled)*
- Name resolution within the phone by means of PBX-internal telephone directory
- Name indication
- Presence display
- Callback

Telephony-Features 3

- *"Callback on busy line" (CCBS) internal/external (scheduled)*
- *"Callback if line free" (CCNR) internal/external (scheduled)*
- Consignor number forwarding (CLIP) or Consignor number suppression (CLIR)
- Standardised Call processing for undeliverable calls
- *T.38 (FAX) (on project request)*
- TAPI-support
- Day/night-control may be configured individually for every single external call number
- Telephone directory (globally / per subscriber)
- Configurable extension line access rights (local, national, international)
- Trunking (grouping of lines for outgoing connections)
- *Queuing (Call-Center, agent administration, agent login-/logout) (on project request)*
- Hold music (configurable)
- Loop music (configurable)

IP-Phones supported by *indali* OBX

The *indali* OBX is an open and non-proprietary, IP-based PBX and supports a multiplicity of various IP-Phones, e.g.:

- SNOM '300er'-Series
- SIEMENS 'OpenStage'-Series
- Innovaphone 'IP200'-Series
- Thompson 'SpeedTouch 2000'-Series
- Open for multiple manufacturers

The most comprehensive implementation of telephony features is realized for SNOM und SIEMENS IP-Phones:

IP-Phones supported by *indali* OBX

SNOM

'300'-Series:



SNOM 300



SNOM 320



SNOM 360



SNOM 370



SNOM M3

SIEMENS

'OpenStage':



OpenStage 20
ice blue



OpenStage 40
ice blue



OpenStage 60
ice blue



OpenStage 20
lava



OpenStage 40
lava



OpenStage 60
lava



OpenStage 80

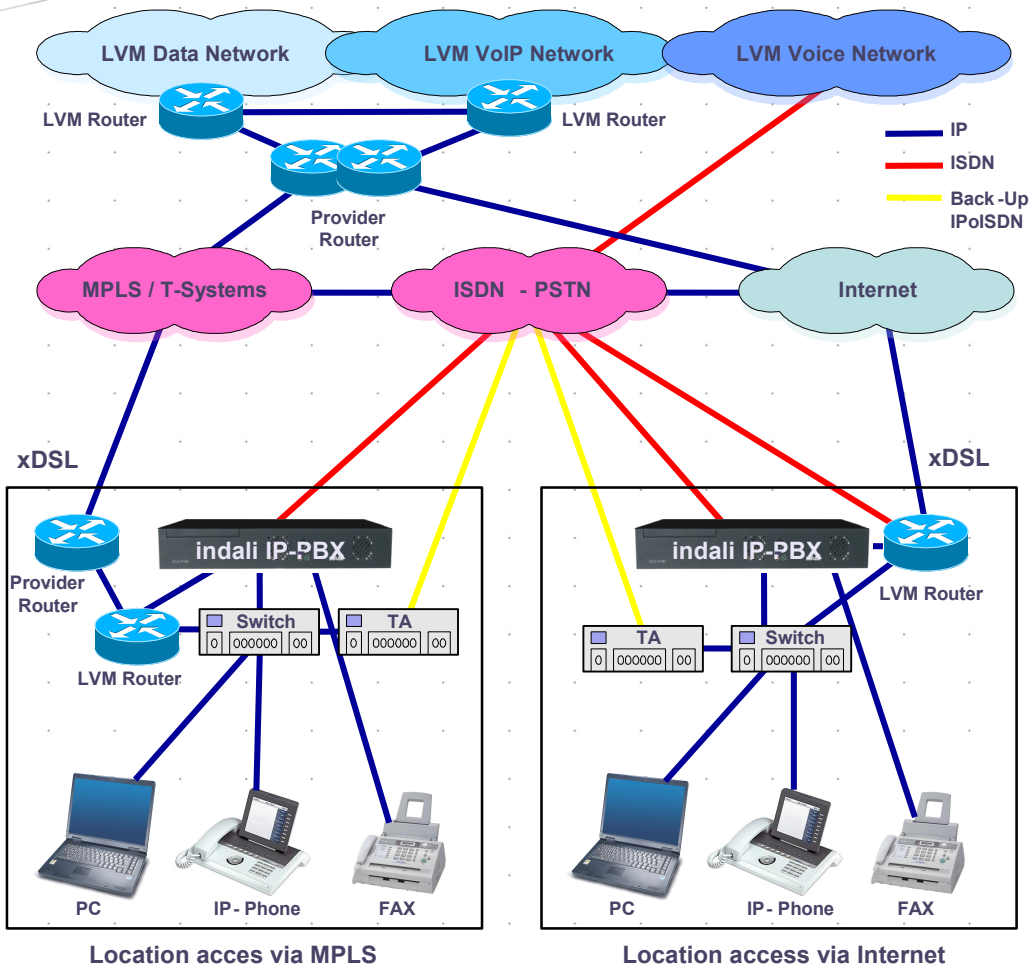
Central Management of IP-Phones

Telephony-Features:

- *indali* OBX IP-PBX is “Feature-Master”
 - consistent feature-sets for all terminals (IP-Phones)
 - homogeneous telephony-behavior, also with heterogeneous IP-Phones
 - synchronous availability of new features after updates

Auto-Provisioning:

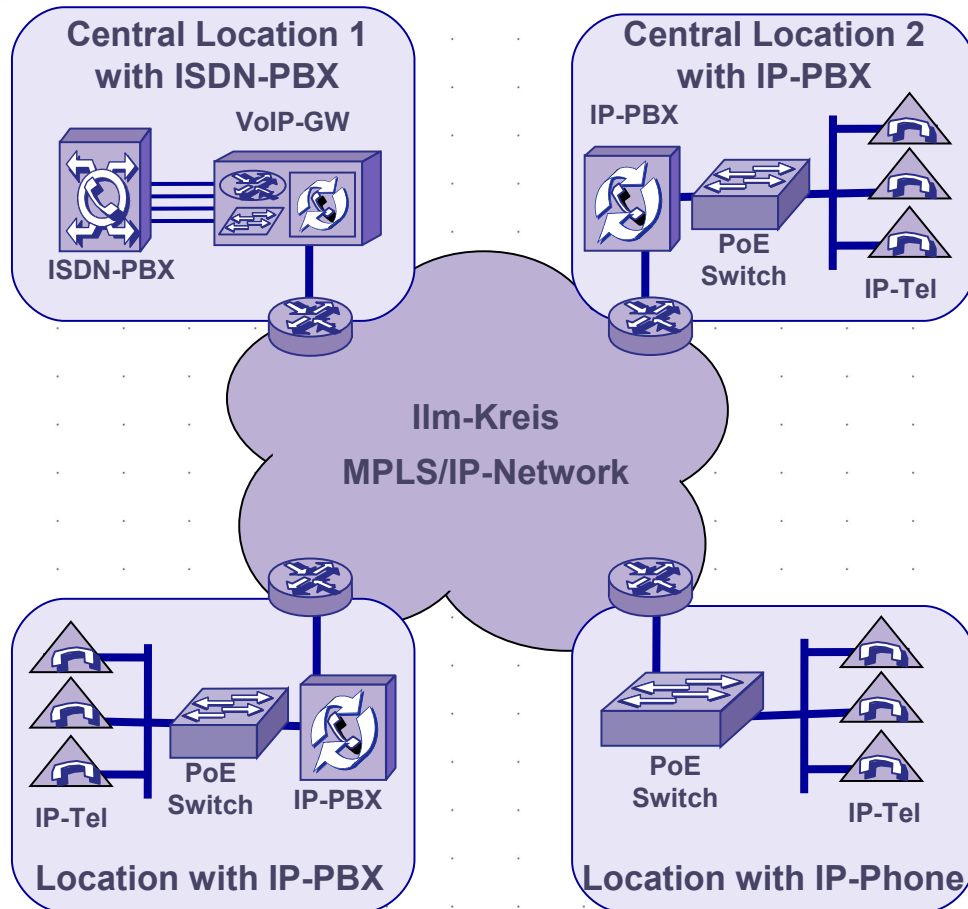
- automate configuration of phones through DHCP-request at server (IP-PBX)
- automate central updates for configuration and software changes
 - effective and simple commissioning of IP-Phones
 - efficient operation of IP-Telephony



LVM Insurance Co. - VoIP

DATUS Services:

- IP-Telephony and VoIP Solution for 2,200 locations and 2,300 employees at headquarter
- Delivery, installation, configuration, maintenance of VoIP equipment (IP-PBX, IP-Phones, PoE-Switches)
- Installation and operation of Pilot-Network with 200 locations and 600 employees at HQ
- Delivery, installation and operation of Migration-Solution during Pilot-Phase – Connection of central HiCom 300 (Siemens ISDN-PBX) via 2 Media-Gateways with 4 x E1/PRI each



IIm-Kreis (Public Authority) – VoIP-Migration

DATUS Services:

- Migration-Solution from ISDN- to IP-Telephony for 20 locations and 200 employees
- Access of first central location with ISDN-PBX (Siemens HiCom) to MPLS/IP-Network
- Installation of central IP-PBX (IP-Centrex) at second central location
- Installation of IP-PBX at medium locations and IP-Phones only at small locations
- Delivery, installation, configuration, operation and maintenance of IP-Telephony and VoIP equipment (IP-Phones, IP-PBX, VoIP-GW, PoE-Switches)

Embedded Hardware Platform

Industrial Personal Computer:

- 19" Chassis 1,5 PU, fan less – no moving parts
- CPU 1 GHz, 1 GB RAM
- 4 GB Flash Solid State Disc
- Backup via USB Port

2 PCI Extension-Slots:

- 8 * ISDN BRI incl. Hardware Echo Cancellation
- 4 * ISDN BRI incl. Hardware Echo Cancellation
- 4 * FXS analogue Ports incl. Hardware Echo Cancellation
- 2 * FXS analogue Ports incl. Hardware Echo Cancellation



Open Source Software Platform

Based on Open Source – private Distribution:

- LINUX Kernel
- ASTERISK Business Edition – Digium Selected Partner
- My SQL (Data Base)
- Web-server using PHP based frontends

→ Ensured SLAs and Releases through DATUS and Digium



Why DATUS and *indali*?

Price-Performance Ratio

- Attractive pricing segment
- No license fees

Technic

- Hybrid system features (IP, ISDN (BRI & PRI), analogue, DECT, WLAN)
- No moving parts, e.g. HD, fans → low-noise, fail safe and economically
- Hardware Echo Cancellation (HEC)
- Auto-Provisioning of Terminals (IP-Phones)

Why DATUS and *indali*?

Service & Support, Development :

- Asterisk Business Edition (ABE) / based on Open Source Standards,
- DATUS is Digium Selected Partner
- Full Support and Maintenance for SW-Releases, incl. „Bugfixing“ by DATUS und Digium
- Additionally area-wide Service and Support by DATUS
- High-Skilled Development-Team for OpenSource and Unified Communication Applications

→ We guarantee responsibility !



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