Aastra 400 Communication Servers

Figures, data, facts

The Aastra 400 product range includes communication servers, terminals and mobility solutions as well as Unified & Collaborative Communications applications.

The communication servers can be expanded for deployment by up to 400 users. That's why they are ideal for the use in small and medium-sized businesses as well as in institutions and organisations.

Moreover, the communication system can be easily and rapidly adapted to new business processes, and expanded.

Aastra 415

Aastra 430

Aastra 470

The Communication Servers

The Aastra 400 series consists of three communication servers: Aastra 415, Aastra 430 and Aastra 470.

The IP servers provide all telephony functions and communication services. Switchover from IP to traditional, analogue or digital telephony is ensured with fully integrated Media Gateways.

A broad range of interface cards allows the use of traditional analogue and digital terminals, as well as connection to public networks via analogue or ISDN trunk lines.

All three communication servers are fitted with the same system software and offer the entire functions.

Aastra 415 and Aastra 430

Aastra 415 and Aastra 430 can be used in smaller businesses and organisations with up to 12 and/or 50 employees respectively. Both systems are modular and in principle with an identical structure.

In addition the Aastra 430 offers as standard more connections and a total of four instead of two expansion slots.

The Aastra 400 systems are meant to be installed in a 19" cabinet. Aastra 415 and Aastra 430 are also wall-mountable.

Aastra 470

The standard version of Aastra 470 has been activated for 36 users.

The communication server capacity can be expanded for up to 400 subscribers, through the addition of a licence.

Within a network up to 600 users and 40 different sites have access to the full range of services offered by the Aastra 400 communication servers.

In addition, the Aastra 470 can be fitted with an integrated application server. This server allows innovative communication services to be seamlessly integrated into the system. Examples are: multimedia communication, unified communications (voice, e-mail, video, chat, etc.) as well as collaboration.

Functions and Services (in alphabetical order)

Incoming call routing functions

+ Block incoming calls per user
+ Busy on busy (user with several phones)
+ Calls to dialler/line key
+ Calls to users with several terminals (One Number Concept)
+ Calls to user groups
+ Direct internal dialling (max.10 DDI plans)
+ Display caller name (CNIP/CONP)
+ Display caller number (CLIP/COLP)
+ Group-dependent call routing (switching groups)
+ Limit simultaneous incoming calls
+ Partial re-routing
+ Private call routing
+ Route calls on busy or no answer to alternative destinations
+ Time-dependent call routing (vector groups, switching positions)
+ User group with linear, cyclic and global call distribution

Outgoing call routing functions

+ Group and time-dependent emergency destinations
+ Internal/external line access authorisation per subscriber
+ Outgoing dial with dialler/line key
+ Prioritised trunk allocation
+ Simultaneous outgoing call limitation
+ Speed-dial numbers

Cost control functions

+ Additional price calculator for charge billing
+ Allocate cost charges to cost centres
+ Avoid manual LCR
+ Call logging (CL)
+ Charge data acquisition for private calls
+ Individual charge payment
+ Individual charge payment reports
+ Least Cost Routing (LCR)
+ LCR fallback to alternative network provider
+ Number lock (limit outgoing numbers)

System functions

+ Announcement before answering (group and time-dependent)
+ Auto attendant (IVR)
+ Babyphone
+ Global/individual VM greeting messages
+ LDAP server
+ Music on hold
+ Secure fax transmission over IP
+ SIP-DECT solution
+ SMTP client (sending e-mails)
+ TDM-DECT solution
+ Time and date-controlled functions
+ Two-company configuration
+ Voicemail (VM)
+ VM audio guide
+ Voicemail box for group
+ VM MWI (Message Waiting Indication) notification via e-mail with attachment
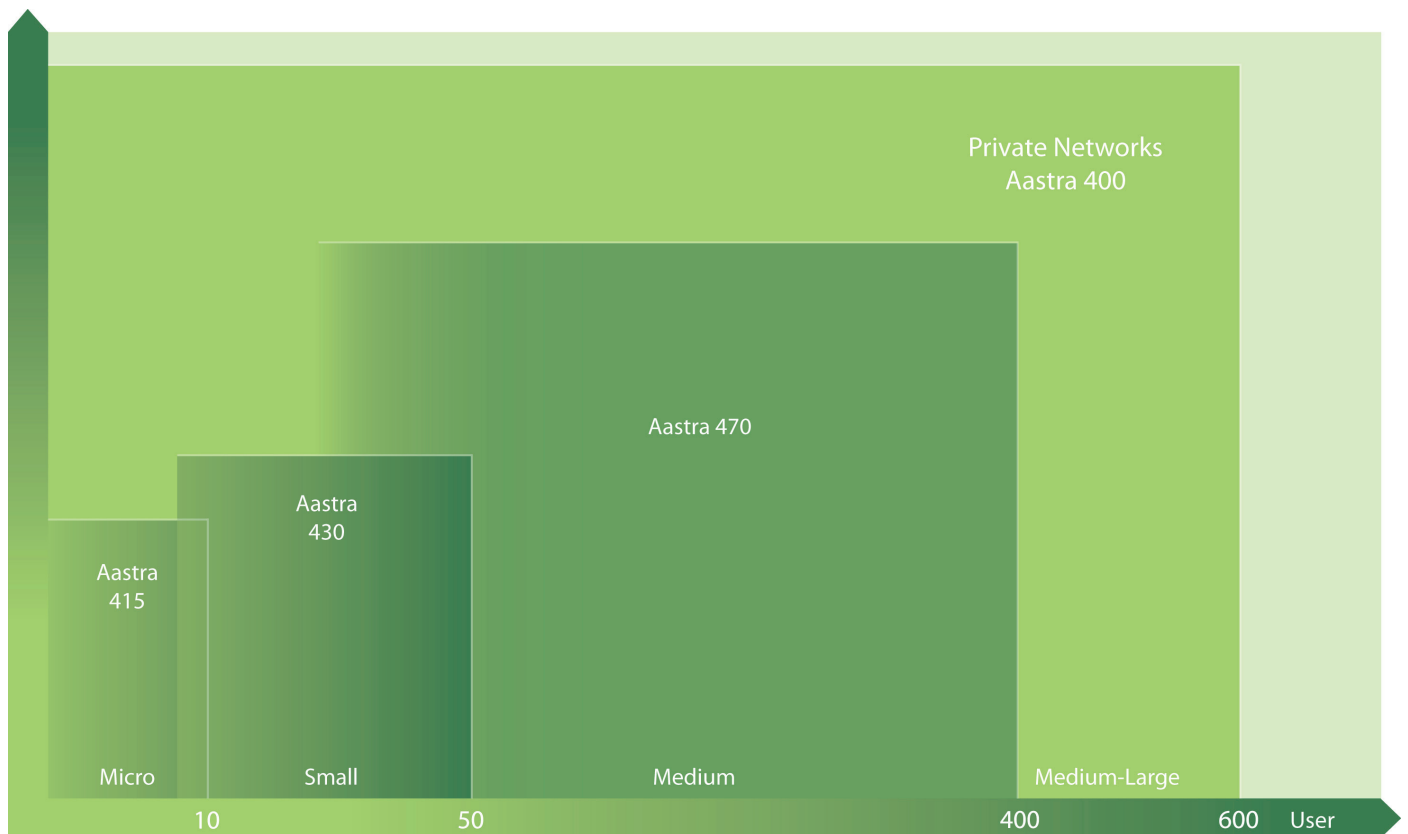+ VoIP voice and signal encryption SRTP/TLS

Networking

+ Private networking via QSIG protocol
+ Private networking via SIP
+ Private transparent networking: AIN (Aastra Intelligent Network)
+ Private virtual networking via the public ISDN

Application interfaces

+ 1st-party CTI via LAN
+ Exchange 2007 / 2010 compatibility
+ Hotel management interface with:
  • Automatic check-in/check-out
  • Automatic outward restriction during check-out
  • Room status
  • Wake-up call
  • Call data recording
+ KNX interface
+ LDAP support
+ Lync/OCS Integration
+ Outlook Integration
+ TAPI interface

Features available to the user

+ Access to system phone book (names/numbers)
+ Activate/deactivate remote maintenance
+ Activate red key function
+ Announcement before answering, record announcement text
+ Answer central alarm
+ Appointment call
+ Assign to cost centre/re-book
+ Automated configuration
+ Automatic software update
+ Brokering
+ Busy lamp field
+ Calls answered from connection
+ Call charge display and call-back
+ Call charge transmission
+ Call connection with delay (line and team keys)
+ Call deflection - CD
+ Call door terminal
+ Call forwarding (CF); Call forwarding on busy (CFB)
+ Call list(s)
+ Calling on an external terminal with your own settings
+ Call protection
+ Calls to busy subscribers (CCBS) and free subscribers (CCNR)
+ Call transfer with or without notice
+ Call waiting
+ Choose internal/external ring tones
+ Conference call
+ Configurable key
+ Control features remotely
+ Control private call routing
+ Control relay (open, close)
+ Deactivating call number display
+ Dial by name/quick dial
+ Dial exchange access (company, private, with cost centre, targeted route dial, LCR fallback)
+ Discreet call
+ DTMF dialling
+ Duplex mode

Private Networks
Aastra 400

Aastra 470

Aastra
430

Aastra
415

	10		50		400		600	User
Micro		Small		Medium			Medium-Large	

- Emergency call number
- Emergency / priority line seizure
- Enquiry
- Fast take
- Follow me
- Free seating
- HOLD
- Home alone
- Indicating new messages
- Individual call charge payment
- Intrusion with/without alert tone
- Leave a message
- Message LED
- Open door
- Parking call (locally, centrally)
- Presence profiles and management (presence)
- Private call with PIN
- Phone lock
- Reject call
- Pick up call
- Record voicemail greeting messages, listen to voice messages, indicate new messages

- Register malicious calls (MCID)
- Return to a connection on hold
- Ring alone
- Secret code (remove room-room lock)
- Send text messages
- Set system time/date
- Speed-dial numbers
- Take
- Team keys
- Toggle switching groups
- Transfer of a call connection without preparation
- User groups (on/off)

System management services and tool

- Aastra Management Suite - AMS
- Data import/export
- DHCP server integrated
- Licence server for telephony functions and applications
- Manual/automatic database backup
- Park management
- Remote management accesses via IP/ISDN/analogue lines
- Self-configuration of Aastra IP and SIP phones
- System management tasks which can be handled by customers
- System management web client for installers and customers

All three communication servers are fitted with the same system software and offer the entire functions.

System data and expansion capacities	Aastra 415	Aastra 430	Aastra 470	AIN
Max. number of subscribers (without virtual/ GSM)	12	50	400	600
Free slots for expansion cards	2	4	6+1	per node
Additional expansion possibilities	AIN	AIN	AIN	-
Nodes in private transparent AIN	-	-	-	1+40
Nodes in private SIP network	110	110	100	-
Digital/analogue/ISDN-S terminal interfaces	10 / 10 / 6	20 / 18 / 12	224 / 116 / 28	600 / 600 / 64
Total terminals (including virtual/GSM terminals)	20	100	600	600
Total terminals (without virtual/GSM terminals)	12	50	400	600
Simultaneous connections	12	30	184	250
Aastra IP phones 5300ip	12	50	400	600
SIP phones (including Aastra SIP 6700i)	10	50	400	400
Aastra digital phones 5300	10	40	400	600
Aastra digital phones Dialog 4200	-	-	224	600
Aastra DECT phones	10	50	400	600
Aastra Softphone 2380ip	10	50	400	600
Attendant consoles (Aastra 5380/5380ip)	4	8	32	32
Connection points (PC based)	4	8	32	32
Analogue terminals	10	18	116	600
ISDN terminals	10	50	224	600
Integrated mobile phones	20	100	255	255
ISDN interfaces BRI (2 B channels)	4	8	56	64
ISDN interfaces PRI (30 B channels)	2	4	14	32
SIP trunk channels	16	32	240	240
SIP provider / SIP user accounts	10 / 500	10 / 500	10 / 500	10 / 500
Analogue trunk interfaces FXO	4	8	-	-
Ethernet system interfaces	2x100BT	2x100BT	3x1Gbit	per node
Application server	external	external	embedded or external	embedded or external
1st party CTI via LAN, users at the same time	10	32	32	32
Voice mail	integrated	integrated	integrated	per node
Voicemail recording capacity [Min.]	400	400	600	per node
Voicemail recording and playback channels	12	12	16	per node
Auto attendant (IVR)	integrated	integrated	integrated	per node
Auto attendant audio channels	12	12	30 (46)	per node
DECT wireless solution	integrated	integrated	integrated	integrated
4/8-channel DECT base stations	10 / 5	20 / 10	224 / 112	255 / 255
DECT / non-DECT connections at the same time	10	20	50	250
Fixed Mobile Convergence (FMC)	integrated	integrated	integrated	Integrated
IP Media Gateway (VoIP Gateway)	integrated	integrated	integrated	Integrated
IP media gateway channels G.711 / G.729	8 / 8	18 / 18	250 / 140	320 / 250
VoIP: Fax over IP channels T.38	1	2	142	per node
VoIP media and signal encryption	SRTP / TLS	SRTP / TLS	SRTP / TLS	SRTP / TLS
VoIP: Line echo cancellation	G0.168	G0.168	G0.168	G0.168
VoIP data security, supported standard protocols	SRTP, TLS, AES, HTTPS	SRTP, TLS, AES, HTTPS	SRTP, TLS, AES, HTTPS	SRTP, TLS, AES, HTTPS