

IVA Technologies



IVA CS

Enterprise IP Telephony

IVA Communication Server

Efficient Corporate Communications



IP ATC provides enterprise-grade telephony services and functions

Main functions:

- ✓ Receiving and distributing audio and video calls
- ✓ Support for VoIP telephony services
- ✓ Support for corporate VAS
- ✓ Convenient role model
- ✓ Domain architecture
- ✓ Support for SBC functionality
- ✓ Geographical redundancy
- ✓ Fault tolerance and scalability
- ✓ Support for foreign phones



Main Features



Support

- ✓ Audio codecs G711 A/μ, G722-4, G729, G726, Speex, GSM, Opus, iLBC
- ✓ Video codecs H.263, H.264, VP8
- ✓ Protocols SIP, SDP, RTP/RTCP, DTMF RFC 2833, DTMF SIP INFO, T38, UDP, TCP, TLS, SRTP
- ✓ Connecting gateways, trunks, telephony providers
- ✓ Fax receiving and sending

Services

- ✓ Flexible routing (including by priority, schedule, load, unavailability, consistent with access groups, to external gateways and exchanges)
- ✓ Monitoring of active calls and registrations, components
- ✓ Working with CDR (recording, searching, uploading for external systems)
- ✓ LDAP integration
- ✓ Flexible REST API capabilities, websocket, including outgoing calls, call analytics

VAS

- ✓ Multilevel IVR, call groups and queues
- ✓ Conversation recording
- ✓ Voicemail and auto attendant
- ✓ Call forwarding
- ✓ Call interception
- ✓ Follow me service
- ✓ Multi-terminal
- ✓ DND - Do not disturb
- ✓ Ad-hoc conferences
- ✓ Voice notification service

Main Features



Role model

- ✓ Any number of roles
- ✓ Flexible configuration
- ✓ Monitoring of user actions, integration with syslog

Domain architecture

- ✓ Distribution of users by domains
- ✓ Each domain can have its own administrator
- ✓ Role model
- ✓ Own routing within domain
- ✓ Own set of services within each domain
- ✓ Configuring individual restrictions for each domain
- ✓ Option of creating an unlimited number of nested domains

SBC functionality

- ✓ Hidden network topology
- ✓ NAT traversal
- ✓ Simultaneous call limitation
- ✓ Normalization of signaling messages in automatic mode
- ✓ Audio codec conversion

To ensure complete security and quality of communication, we have developed IVA SBC

Main Features



Fault tolerance and scalability

- ✓ 2+1 redundancy
- ✓ Active-active component redundancy
- ✓ Horizontal scaling of all system components

Phone support

- ✓ Cisco CP-78**/88** series phones
- ✓ Avaya J1** series phones
- ✓ Yealink T*** series phones
- ✓ IVA's own phone range



A special IVA Device Manager system is being developed for full-fledged phone provisioning

IVA Device Manager

Easy Hardware Device Management



Software that simplifies administrator interaction with phones

Main functions:

- ✓ Forming phone configurations for Cisco CP-78**/88**, Avaya J1**, Yealink T**, IVA Phones
- ✓ Updating phone firmware for Cisco CP-78**/88**, Avaya J1**, Yealink T**, IVA Phones
- ✓ Flexible configuration of phone groups
- ✓ Phone provisioning log
- ✓ Monitoring of administrator actions



IVA Phones

Own phone range



01



IVA Advanced M

- Conferences for 5 participants
- 4 SIP accounts
- Support for 4 communication lines
- 4 keys and optional programming of up to 12 DSS keys
- Address book for 1000 entries
- Call history for 100 entries
- Codecs: G.722, G.711 (a/u), G.723, G.726-32, G.729AB, iLBC, Opus
- Network protocols: IPv4, IPv6, DHCP/PPPoe, IEEE802.1X, TFTP/HTTP/FTP/HTTPS, SSH, SNMP, SNMP

02



IVA Advanced

- Conferences for 5 participants
- 16 SIP accounts
- Support for 10 communication lines
- 8 keys and optional programming of up to 36 DSS keys
- Address book for 1000 entries
- Call history for 100 entries
- Codecs: G.722, G.711 (a/u), G.723, G.726-32, G.729AB, iLBC, Opus
- Network protocols: IPv4, IPv6, DHCP/PPPoe, IEEE802.1X, TFTP/HTTP/FTP/HTTPS, SSH, SNMP, SNMP

03



IVA Video

- 1080p FullHD support
- 16 SIP accounts
- Support for 10 communication lines
- 8 keys and optional programming of up to 36 DSS keys
- Call history for 100 entries
- Address book for 1000 entries
- Call history for 100 entries
- Codecs: G.722, G.711 (a/u), G.723, G.726-32, G.729AB, iLBC, Opus
- Video codecs: H.265, H.264 High Profile, H.264, VP8
- Network protocols: IPv4, IPv6, DHCP/PPPoe, IEEE802.1X, TFTP/HTTP/FTP/HTTPS, SSH, SNMP, SNMP

04



EXT40 Panel

- 5-inch color LCD display 800x480 pixels
- Cascade connection for up to 6 modules
- 20 keys and optional programming of 40 DSS keys
- Light indication of line and subscriber status
- Hotdesking
- Zero Touch
- Multicast
- Ethernet – 2xRJ45 ports 10/100/1000 Mbps

IVA CS Licensing Policy



IVA CS is licensed by the number of subscribers with basic and extended VAS.

Optional purchasing of additional simultaneous connections

Without restriction

- ✓ Number of IVR channels
- ✓ Number of gateways
- ✓ Number of audio conferences

License types

- 01** License with basic VAS – exchange services (routing, SBC functions, setting up a role model for users, subscribers and their groups, working with CDR, IVR Voice Menu, reservation) and basic VAS for telephony (call forwarding, call hold, line status indication, "do not disturb" mode)
- 02** "Extended VAS" license – call interception, Ad-hoc conferences, conferences for 6 participants, Follow me service, Multi-terminal, Voicemail, Fax
- 03** License for additional concurrent connections

Standalone & Integration Options



Standalone

- ✓ Corporate IP PBX with a classic set of VAS and telephony services

IVA CS+IVA MCU

- ✓ Corporate IP PBX with a classic set of VAS and telephony services
- ✓ Subscriber call when dialing a number on the Dialer built into IVA Connect
- ✓ Extension dialing in an active call (DTMF panel)
- ✓ Adding a participant by phone number to a scheduled event
- ✓ Adding by phone number to an active event
- ✓ Call forwarding

IVA CS as part of IVA One

- ✓ Corporate IP PBX with a classic set of VAS and telephony services
- ✓ Functions similar to IVA CS+IVA MCU*
- ✓ Softphone (VAS control from the application window)*
- ✓ Control of an on-table hardware IP phone from the application window*

*Function under development

IVA CS Advantages



- ✓ In-house development from scratch
- ✓ Domestic solution
- ✓ Open standards compliance
- ✓ Active-Active fault tolerance
- ✓ Possibility of certification for any requirements
- ✓ Microservice architecture
- ✓ Domain administration system
- ✓ Cross-platform
- ✓ Possibility of integration with external systems via REST API



Growth Plan for 2025



Q3 2025

- Fine-tuning of route priorities
- Redundant routes
- Assigning domains to cluster hosts
- Connecting IP telephony providers
- Provision and support for Cisco CP-78**/88** phone keys
- Provision for Polycom Trio 8800, VVX500 phones
- Support for phone keys Audiocodes 450HD

Q4 2025

- Development of IVR and routing services
- Integration with Prometheus, grafana
- Integration with the IVA Device Manager provisioning system
- Support for RED OS
- "Hot" updates
- Integration with IVA Presence

IVA Technologies



Building future of unified communications



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