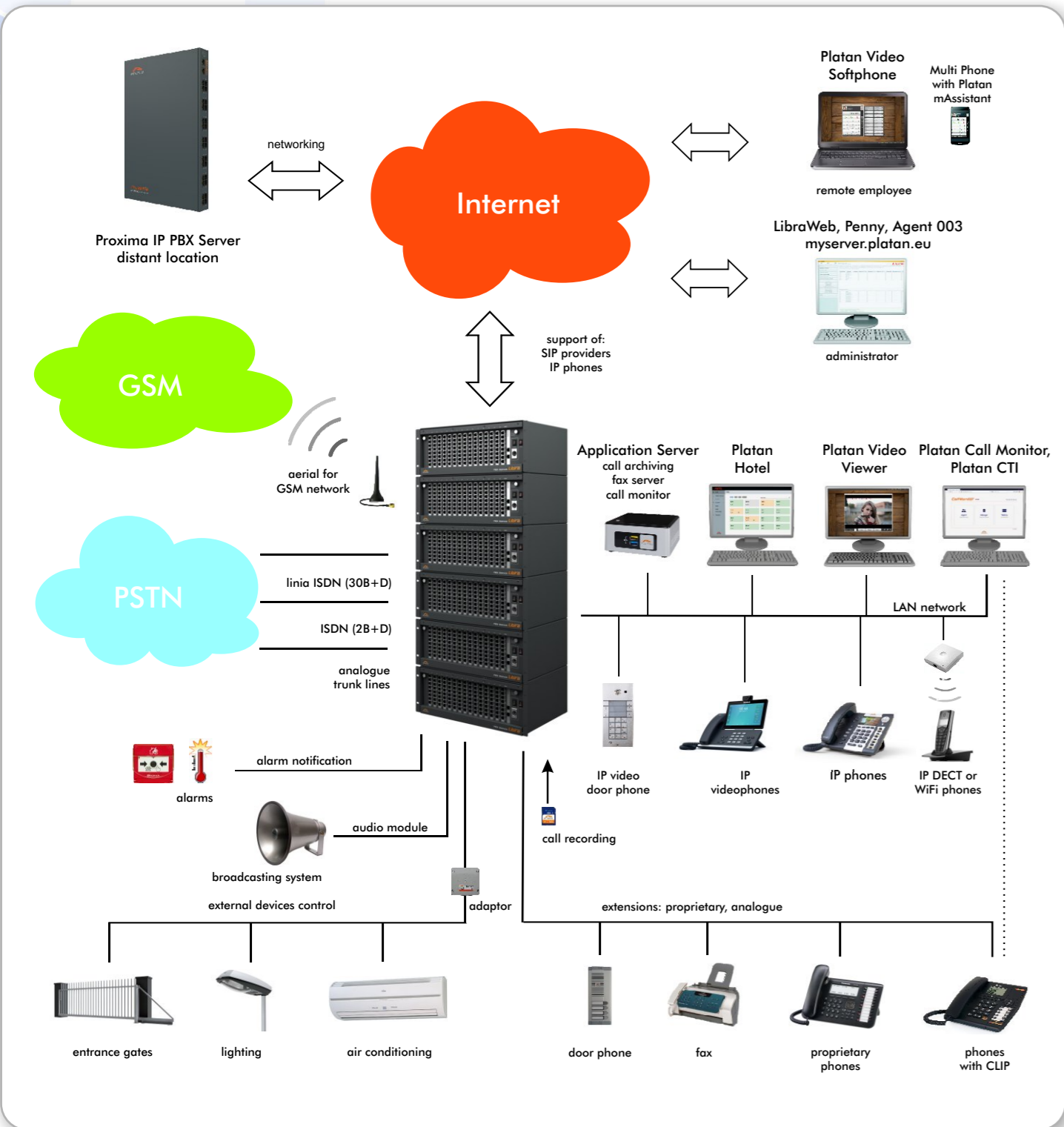


# PBX Server Libra – element of an ICT system



# Telecommunication systems not only for business

- Platan PBX telecom systems, integrating all types of telecommunication lines, public and departmental – PSTN, ISDN, GSM, VoIP;
- support of intense telephone traffic, advanced scenarios of traffic organisation;
- networking by IP network – creating uniform telecom systems for distributed multi-branch organisations;
- own software to support telephone traffic and protocols to support software of other producers – for call centers, contact centers, hotels, taxi companies etc.;
- Platan Gateway REC multi-channel VoIP gateways with possibility of call recording;
- door phones, video door phones, phones and videophones of any type, central fax server and other accessories useful in office work;
- SIP trunk multi-channel services – low-cost voice communication by VoIP;
- local commercial, technical and service support – network of authorised installers and partners in Poland and abroad.



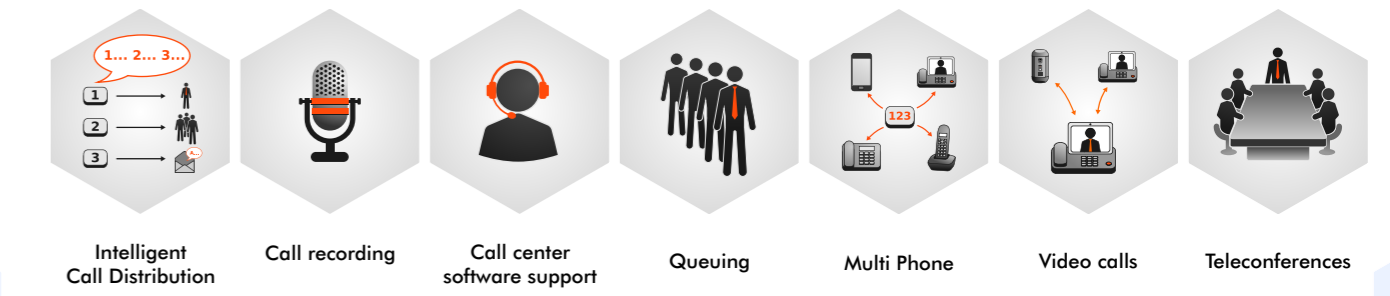
Platan is a leading Polish producer of IP PBX telephone systems and PBX servers.

Company's complex offer satisfies the most sophisticated requirements of a wide range of customers, from small and medium companies to large enterprises, public offices and institutions, as well as rescue and uniformed services.

We have been providing telecom solutions since 1985. Systems developed by Platan are fully based on our own technical know-how. They have received great recognition both on Poland and foreign markets.

Platan offers also the public address systems, including the IP-based audio passenger information systems for railway stations.

We have been awarded ISO 9001 Quality Management System Certificate for design, manufacture, sale and service of telecommunication equipment, which provides the evidence of our compliance with quality standards.



Configuration	Proxima	Proxima plus	one unit Libra (STD or RACK)	multi-unit Libra (STD or RACK)
Number of units (max)	1	1	1	6
<b>Extensions</b>				unit / max.
• analogue	28	28	120	120 / 720
• digital proprietary	28	28	32	32 / 128
• digital ISDN (2B+D) – universal	16	16	120	120 / 128
• analogue and proprietary in total	28	28	120	120 / 720
• VoIP (IP EXT) audio ports and/or video	200	2000	200	1000 / 1000
<b>Trunk lines</b>				unit / max.
• analogue	14	14	64	64 / 64
• digital ISDN (2B+D) – universal	16	16	120	120 / 128
• digital ISDN (30B+D) USER / NET	1	2	8	8 / 8
• VoIP accounts (IP GW)	64	64	64	64 / 64
• GSM (number of SIM cards)	4	14	6	16 / 16
<b>VoIP</b>				
• Number of VoIP channels on processor card	up to 10	–	up to 10	up to 10
• Integrated VoIP cards (max. number of cards)	1	4	1	2/6
• Number of VoIP channels on one VoIP card	up to 64	up to 64	up to 64	up to 64
Number of simultaneous calls	up to 32	non-blocking	up to 128	up to 64 / non-blocking
<b>Networking</b>				
Number of servers / number of users	16 / 16 000	16 / 16 000	16 / 16 000	16 / 16 000
<b>Interactive Voice Response (IVR)</b>				
Announcement levels / number of traffic scenarios	600 / 64	600 / 64	600 / 64	600 / 64
Voice announcements (number / total time)	99 / up to 1 h	99 / up to 30 h	99 / up to 1 h	99 / up to 30 h
Call recording (number of channels)	up to 16	up to 30	up to 30	up to 30
Queuing (number of callers waiting in queues)	up to 40	up to 40	up to 40	up to 40
Voicemail (number of channels / total time)	25 / up to 1 h	25 / up to 30 h	25 / up to 1 h	25 / up to 30 h
Audio and external devices control	support of up to 8 sensors, control of up to 8 external devices		support of up to 8 sensors, control of up to 8 external devices, 1 audio IN and 2 audio OUT (broadcasting)	
<b>Power supply</b>			one unit Libra (STD or RACK)	multi-unit Libra (STD or RACK)
Mains power supply	-230 V ± 10%; 50 Hz; max. 50 VA		-230 V ± 10%, 50 Hz, max. 100 VA / server unit	
Backup power supply	UPS		2 batteries 12 V, 7 Ah / unit power maintenance from 5 h up to 9 h	
Backup powers supply panel dimensions (one panel supports 1 or 2 Libra units) height x width x depth [mm]; weight [kg]	n/a		STD casing – built-in power supply	RACK – 80 (2U) x 483 (19") x 240; up to 16
<b>Server dimensions</b>			Libra STD	Libra RACK
Casing type	universal (RACK or wall-mounting)		STD (wall-mount)	RACK (19")*
One unit dimensions: height x width x depth [mm]; weight [kg]	44 (1U) x 483 (19") x 287; 5		626 x 406 x 167; 18,6 (with backup power supply)	176 (4U) x 483 (19") x 330; 12

\*additionally up to 3 RJ-45 patchpanels (1U height each) for every unit.

Protocols and codecs	
Voice communication protocols	ASS, DSS1 (EURO ISDN), QSIG, GSM 850/900, DCS1800, PCS1900
VoIP	SIP 2.0, T.38 (for faxes in IP networks)
Audio codecs	G.711 µLaw, G.711 aLaw, G.726, GSM, G.729a
Video codecs	H.263+, H.264
Server communication protocols – integration with external software	Platan PCTI, Platan TAPI, HTTP, hotel LibraHotel.dll, hotel FIAS for Micros Fidelio, protocol supporting external call recorders
Server management protocols	Ethernet LAN 10/100 Base-T interface, embedded modems (analog V.32/ ISDN) for remote control
Automatic configuration (autoprovisioning)	Platan and Yealink IP phones

Software	
Web-based interface for configuration	ProximaWeb / LibraWeb
Call billing	Penny billing modul, statistics
Web-based interface for user	User Zone, access to the selected settings
Remote access to PBX servers	myserver.platan.eu platform
Support of hotel features	Platan Hotel (software embedded in PBX servers)
Application for audio and video calls	Platan Video Softphone (PC & Android), Platan Video Viewer – for IP Safe video door phones
Support of recorded calls	Platan Agent 003, Platan Archiver
Support of call traffic, SMS	Platan Call Monitor, Platan CTI, Platan Click2Call
Application for external port	Platan mAssistant

Accessories	
Telephones	IP phones: Platan IP-T2xx, Yealink, Gigaset, Fanvil; analogue wired and DECT: Alcatel, Panasonic & others; proprietary phones: Panasonic KX-DT5xx (Libra – with consoles); IP videophones: Yealink, Fanvil
IP-DECT systems	IP DECT phones and base stations: Gigaset, NEC
Remote door and gates opening	DB 07 Platan door phones; IP video door phones: Safe & 2N
Call recording and archiving	industrial memory cards; Platan Application Server; SIM call recorders
Central fax (Fax over IP)	Platan Fax Server on Platan Application Server
Support of telephone traffic	Platan Application Server for Platan Call Monitor



## PLATAN IP PBXs and PBX Servers



Six-unit  
Libra PBX Server



One unit of Libra PBX Server



Libra STD PBX Server

These are the largest Platan PBX servers, supporting up to 720 analogue and proprietary phones and up to 1000 IP phones. Scalable from one up to six units. Creating network with Libra and Proxima servers. Two types of casings – wall-mountable (STD) and RACK for 19" ICT cabinets.

Advanced PBX servers supporting up to 28 analogue and proprietary phones and up to 2000 IP phones.

Creating networks, both with Proxima and Libra servers.

One universal casing – for wall mounting or for RACK 19" ICT cabinet.



Proxima and Proxima plus IP PBX Servers



Prima, Prima mini and Prima nano IP PBXs

Small IP PBXs, connecting all types of telephone lines: analogue, digital ISDN, VoIP together with integrated GSM cards.

They support up to 14 analogue phones and up to 8 IP phones.

## PLATAN IP gateways and IP phones



Platan Gateway REC



Platan Gateway

Platan Gateway and Platan Gateway REC (with integrated multichannel call recording) are IP gateways.

Support of 8 up to 24 phones, universal casing for wall-mounting or RACK 19" ICT cabinet installation.

They can be used with any SIP provider and PBX systems of other producers.



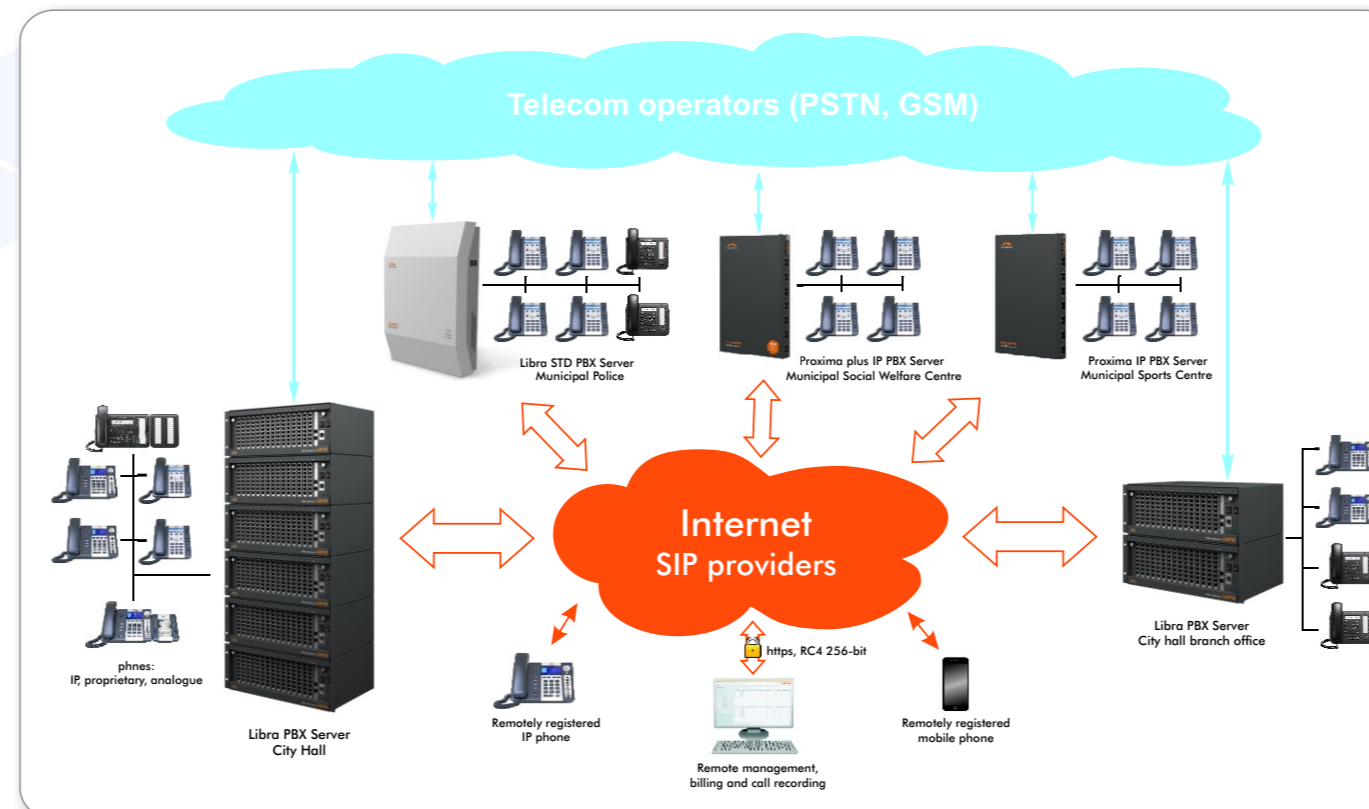
Platan IP phones

Elegant phones for demanding users, with colour display, photos for contacts, possibility of connecting up to 5 expansion modules, using multiple SIP accounts. Perfect solution for managers, dispatchers and secretaries.

Economic models with visible display, several SIP accounts – indispensable phone in every office.

Phones with embedded switches with two 1 Gb Ethernet ports and with embedded Wi-Fi for wireless connection.

## Example of an integrated telecommunication system with the use of Platan systems network



## Features of PLATAN PBX servers

### Intelligent Call Distribution (ICD):

- Interactive Voice Response (IVR) with multilevel call distribution scenarios.
- Queuing callers waiting for a connection – with information on updated position in queue and estimated waiting time.
- Multi Phone – using several phones (mobile phone included) at one extension number.
- Sending to mobile phones set as external ports (in Multi Phone) information about the numbers calling a PBX, easy calling and calling back from mobile phone via PBX server (Platan mAssistant).
- DISA – direct inward access to extensions and infolines numbers.
- Smart Callback – directing an external caller that missed the call to the PBX extension that had made this outgoing call.
- Music on hold (4 tunes).
- Hunt groups (group ring numbers).
- Uniformed (UCD) and Automatic (ACD) Call Distribution.

### VoIP Cost Eliminator (VEK):

- Support of multichannel VoIP lines (SIP trunk).
- Integrated access to the low-cost Internet telephony.
- Support of faxes in IP networks (T.38 standard).
- Call Through – calls via VoIP from mobile phones.
- Platan Video Softphone app. for calls and video calls in VoIP technology.

### Cost Management Programme (PZK):

- History of outgoing, incoming, answered and missed calls.
- Call billing in Penny app. – individual and precise accounting of call costs and times (100,000 calls buffer).
- Individual and group call statistics.
- Limits of call costs.
- Boss-secretary scenario (limited access to privileged PBX users).
- 2000 billing accounts and 2000 virtual extensions.
- Automatic selection of the cheapest call route ARS/LCR (4 tables).
- Transit call – charging an outside call to the server.
- Restriction system – limiting the number of unwanted outgoing calls.
- Tables of allowed/denied numbers/directions (16 tables).

### Incoming and internal traffic:

- Full Call Identification Presentation (CLIP).
- MSN/DDI multiple phone numbers.
- MCID (Malicious Call Identification), rejecting unwanted calls.
- Voicemail – group and individual for all users.

- Extension groups (restrictions on internal calls).
- Teleconferences, conference rooms (up to 40 participants).
- Call forwarding – unconditional (CFU), when busy (CFB), when no answer (CFNA), when not reachable (CFNR).
- Capturing calls incoming to an extension or a group, pick-up groups.
- Putting calls on hold (HOLD).
- Call waiting indication (offering).
- Joining calls in progress.
- Call transfer to external numbers.
- "Do Not Disturb" (DND).

### Outgoing traffic:

- CLIR (Calling Line Identification Restriction).
- Hotline (trunk / extension) – quick access to external numbers.
- Booking calls with voice message for booked calls.
- Redial (redialling the last dialled number).
- Easy callback.
- Short numbers for speed dialling.
- Emergency numbers, alarm dialler (alarm notification).

### Other features:

- Networking of Proxima and Libra servers for dispersed organisations.
- Integrated multi-channel call recording, archiving calls from multiple locations.
- See Who's Talking – video calls for any number of users, support of IP video door phones with Platan Video Viewer app.
- Global phonebooks for proprietary and IP phones.
- Web-based management, local and remote.
- External devices control.
- Automatic fax transfer.
- Time synchronisation with the local exchange (NTP server and CLIP).
- Automatic change of operation modes.
- Wake-up calls, single or multiple event notifications.
- Free numbering of extensions and services (1-16 digits).
- Sending and receiving individual and group text messages (SMS).
- Applications supporting the service of telephone traffic – Platan Call Monitor, Platan CTI, and Platan Click2Call web browser add-on.
- Platan Hotel – software supporting hotel features, embedded in Proxima, Proxima plus and Libra PBX servers.
- Integration with own and external applications and accessories.
- System messages for call queuing, voicemail, conferences etc.
- System management and service in: Polish, English, Russian.