Telematics IP-PAS — IP-Paging Solution — Feature List

A complete public-address and background-music system for a building or site, controlled from a simple web screen. Announce live from any PC browser, play recorded messages, ring shift bells on schedule, broadcast emergencies with one click, and keep music playing everywhere in between — all over standard IP speakers.

Speakers & Zones

- **IP speaker management** — add, edit, enable/disable any SIP speaker, horn, or intercom
- **Live speaker status** — colour-coded grid shows every speaker as idle, playing music, paging, or offline, updated live without refreshing
- **Zones** — group speakers into areas (Reception, Warehouse, Production…); a speaker can belong to several zones
- **Operator consoles** — mark a phone as a paging console; it can make pages but is never paged itself
- **Location model** — up to five configurable location labels (Department / Location / Block…) on every speaker, with search and filter
- **Fast zone membership** — searchable, filterable member picker with bulk select by location; no ticking a hundred checkboxes
- **Per-zone volume** — each zone can have its own paging level, on top of the system default

Paging

- **Page from the web screen** — play an announcement or sound to all speakers, a zone, or one speaker
- **Multi-select targets** — click any mix of zones and individual speakers and page them together; overlapping selections never double-page a speaker
- **Page from any phone** — dial-in codes for all-call, each zone, and individual speakers, listed right on the paging screen
- **Hands-free announcements** — speakers auto-answer, so a page just plays; no one picks anything up
- **Pre-announcement chime** — an optional attention tone before every page, chosen from your own sound library
- **Paging volume control** — adjustable level per page and per zone
- **Now Playing** — the paging screen and the dashboard always say what is on the speakers, where, and whether it is an announcement, a schedule, a live page or an emergency
- **One Stop for everything** — end an announcement, a scheduled playback or a live page from the same button

- **Priority built in** — emergencies outrank live pages, live pages outrank recorded announcements, and only the speakers being paged are cleared, so a zone alert never silences the rest of the site
- **Replay, never a surprise restart** — an announcement cut off by an emergency is offered back for replay with one click, instead of restarting mid-sentence by itself
- **No stuck speakers** — a maximum page length ends a page left running (a handset off the hook), so the speakers are never held indefinitely

Live Voice Paging (from the browser)

- **Talk from any PC or laptop** — live voice paging straight from the operator's browser microphone; no telephone, softphone, or extra hardware
- **Broadcast audio files from the operator's PC** — queue one or more files and they play to the speakers in order, ending automatically
- **Relay what the PC is playing** — send a browser tab's or the whole system's audio to the speakers (Chrome/Edge)
- **Live volume** — adjust the level even while the page is on air
- **Mute without hanging up** — silence the microphone mid-page while keeping the speakers reserved and the music paused
- **Never live in silence** — a live page that receives no audio (a browser without microphone permission) ends by itself and says why
- **Secure by design** — HTTPS console, one-time tokens per live page, and a locked-down path that can never bypass operator permissions
- **Multiple operators** — several operator PCs can be set up at once

Scheduled Announcements

- **Shift bells and timed messages** — recurring weekly (choose the days) or one-time on a date
- **Timed background music** — schedules can also start music at one time and stop it at another
- **Any target** — all speakers, a zone, or a single speaker per schedule
- **Test, pause, resume** — fire any schedule now to test it, pause it for holidays, resume with one click
- **Next run at a glance** — every schedule shows when it will fire next and whether it is on or paused

Emergency Announcements

- **One-click broadcast** — a dedicated red console with big trigger buttons and nothing else, so it is fast and safe under pressure
- **Top priority** — clears its target speakers and plays at once, whatever was on them: music, an announcement, a live page
- **The newest instruction wins** — an "all clear" can cut off the evacuation message it replaces
- **Override from the paging screen** — an operator already on the paging screen can fire an emergency without leaving it

- **Pick the message at trigger time** — each button can override its default sound on the spot
- **Never blocked** — emergency triggers ignore operator zone limits; any signed-in user can raise the alarm
- **External trigger** — fire panels, physical buttons, and security systems can trigger an alert over the secure API

Background Music

- **Internet radio** — add any number of stream URLs and play them by name
- **Playlists** — upload folders of your own tracks and play them in sequence
- **Everyone in step** — a playlist plays as one shared stream, so every speaker hears the same track at the same moment
- **Music where you want it** — play to all speakers, a zone, or a single speaker
- **Automatic pause and resume** — paging and alerts pause the music only on the speakers being paged; it resumes there afterwards
- **Live volume slider** — adjusts music that is already playing

Sounds & Announcements

- **Sound library** — upload WAV/MP3; files are automatically converted to the format speakers need
- **Named announcements** — ready-to-use messages (Shift Start, Lunch Break…) usable from paging, schedules, and alerts
- **One library everywhere** — the same uploaded sounds serve paging, chimes, schedules, and emergencies

Users, Roles & Security

- **Three roles** — administrator, manager, and paging operator, each with its own view of the menu
- **Operator zone scope** — restrict an operator to the zones they may page, enforced on the server, not just hidden in the screen
- **Forced first-run password change** — the factory login cannot be left in place
- **Password resets** — temporary password with forced change at next sign-in
- **Individual accounts & event log** — sign-ins, configuration changes, pages, alerts, and music activity all recorded with time
- **Safety guards** — the last administrator can never be deleted or demoted

Live View & Monitoring

- **Dashboard** — speakers online, zones, announcements, schedules, and users at a glance
- **Live paging console** — see every speaker's state while you work, click tiles to build the target
- **Flap-free status** — momentary network blips don't bounce speakers between online and offline
- **Server health lights** — paging-server and Asterisk status visible on every page

Integration (secure API)

- **Start a page** from any external system — to all, a zone, or a speaker
- **Trigger an emergency announcement** — connect a fire panel or a physical button
- **Query status** — Asterisk link, speakers online, music state
- **Token protected** — a secret key, shown and regenerable from the admin screen

Protection & Recovery

- **Undo for configuration changes** — a restore point is saved automatically before every change, so a wrong edit is one click away from being undone
- **Your own restore points** — take a labelled snapshot before doing something risky
- **Rollback that can't lock you out** — restoring configuration never touches user accounts, passwords, or the event log
- **Reversible restores** — restoring takes a "before restore" point first, so even that is undoable
- **Survives upgrades** — a restore point taken on an earlier software version still restores after an update
- **One-file backups** — configuration, paging setup, and announcement audio in a single downloadable file
- **Safe restore** — upload and restore are separate steps, uploaded files are validated before they can be used, and a safety copy is taken before any restore
- **Storage protection** — warns when the disk is filling and holds back new uploads before it can fill, while paging, alerts, music and schedules keep running regardless

System Administration

- **Everything from one web screen** — no Asterisk knowledge needed day to day, and nothing that needs a login to the controller's operating system
- **Change the controller's address from the browser** — DHCP or a static address, applied provisionally: confirm it from the new address within four minutes or the controller puts the old one back by itself, so a wrong setting can never lock the site out
- **Safe Asterisk integration** — the controller only writes its own include files; your base Asterisk configuration is never touched
- **Unicast by default, multicast when you're ready** — reliable out of the box; multicast paging with automatic unicast fallback for legacy speakers when enabled
- **Updates that keep everything** — updates are installed by your supplier and never reset settings or audio
- **Licensing** — offline licence tied to the unit, perpetual or dated; a 14-day trial with every feature; speaker allowance and paid features (background music, browser live paging, REST API) set by the licence; paging and emergency announcements are never switched off by licensing
- **Editions** — SMB Edition as standard; Enterprise Edition path built in
- **Runs fully on-site** — single self-contained program, no cloud dependency