Smart pi ECOsystem



Smart Public Information for the smart city.

Smart pi takes information from across the city and delivers it to the people who need it: as an announcement, on a display, through a help point or straight to a hearing aid, the moment it matters.

One ecosystem, designed to look, feel and work as one

Every product works on its own, and better together.

IN

Where information comes from

- RTA
- MIC
- PBX
- SPL
- Fire panel

SMART PI CORE

Decides what to say, where and when

- DVA
- DVA-GTFS
- EYE
- DSP
- SIP
- FSM
- LOG
- NMS

OUT

How it reaches people: hear, see, ask

- NAM
- NAM-HP
- EDC
- EYE-HD
- HLP

Smart pi DVA

Voice announcements

The right announcement, in the right place, at the right time.

Give every message somewhere to go

Keep passengers informed, from one platform to a whole transport network.

Smart pi DVA manages recorded and text-to-speech announcements through a web interface. Operators choose the message and destinations; DVA manages the output queues.

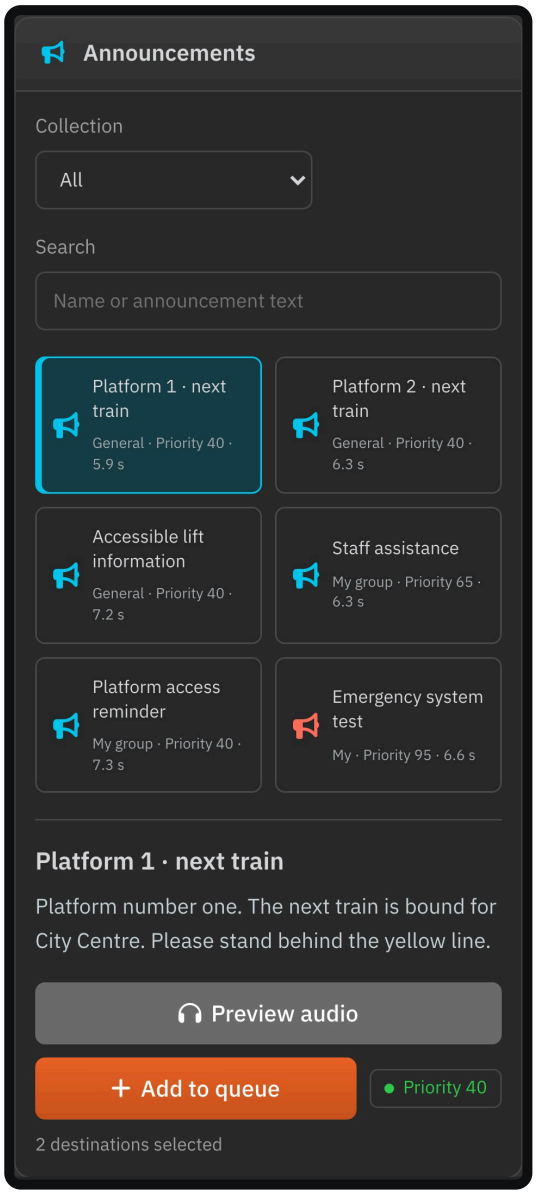
Start with local playback or connect a master and multiple nodes. Libraries, schedules and priorities give routine information a place alongside urgent updates.

Everyday services
Platform calls and passenger information.

Changing conditions
Disruptions and short-notice updates.

Planned messages
Repeat safety and service notices.

One network
Select the zones that need to hear it.



Messages within reach
A focused operator view for choosing and previewing an announcement.

512
Audio channels per node, subject to licensing and audio interface.

100
Priority levels for announcement playback.

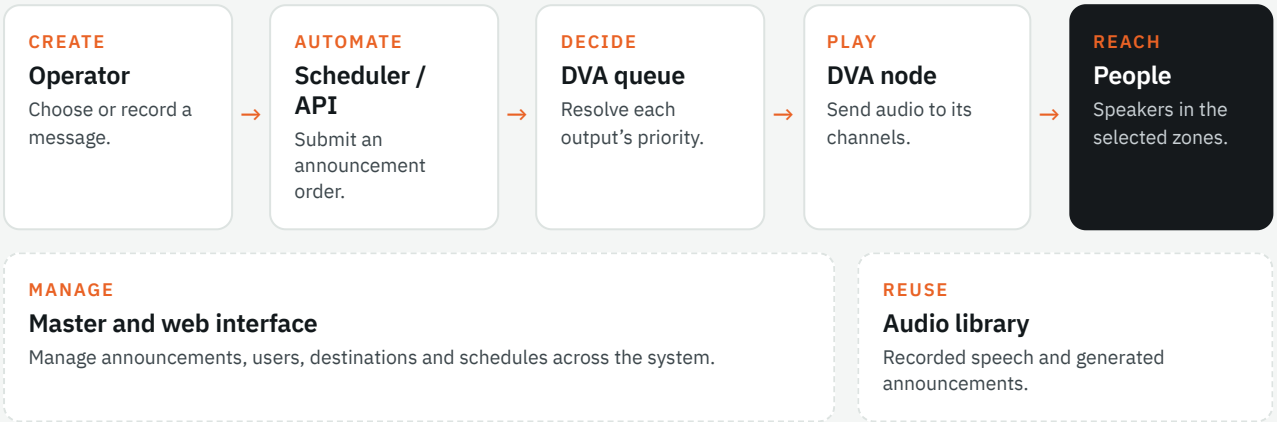
6
Daily start times available per scheduled order.

20
Nodes supported in a DVA system.

SmartPi UI previews with fictional station data. Screens show the browser simulator.

One message. Many destinations.

Separate content, control and playback so each location gets the information it needs.



- Each output channel has its own queue: different zones can play different messages.

When messages compete

- **Higher priority:** the new announcement can interrupt current playback.
- **Interrupted message:** DVA returns it to the queue.
- **Same normal priority:** the earlier queued order goes first.

Plan the system around the site

Choose Windows or Linux and the supported audio driver and interface. Confirm channel licensing, network design and redundancy arrangements for the installation.

Better together

Smart pi DVA-GTFS
Turn timetable and realtime data into announcement orders.

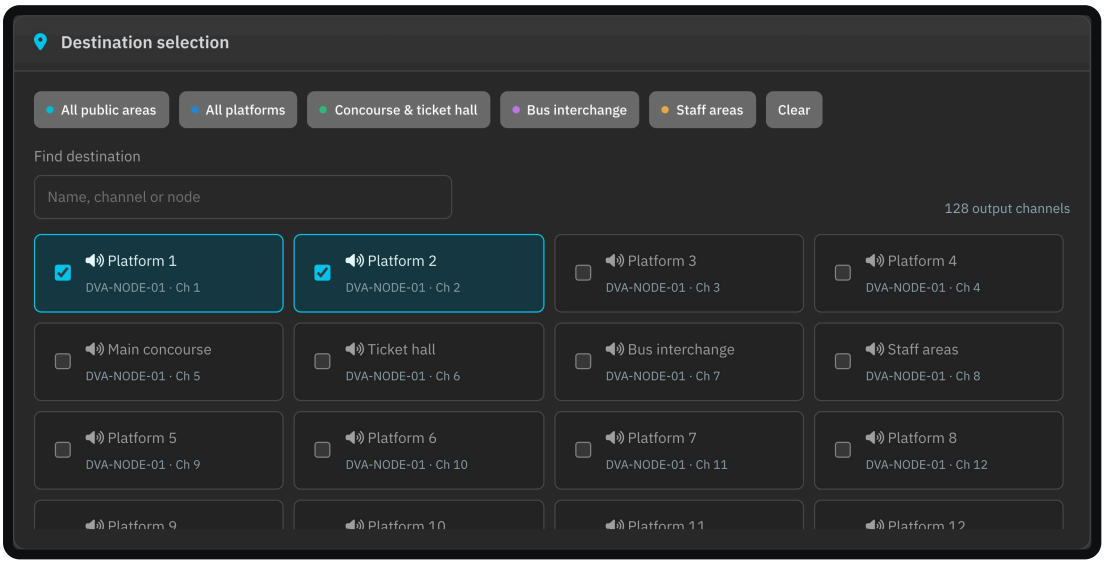
Smart pi DSP
Route and process the audio for the site.

Smart pi NAM-HP
Deliver audio through network amplifiers.

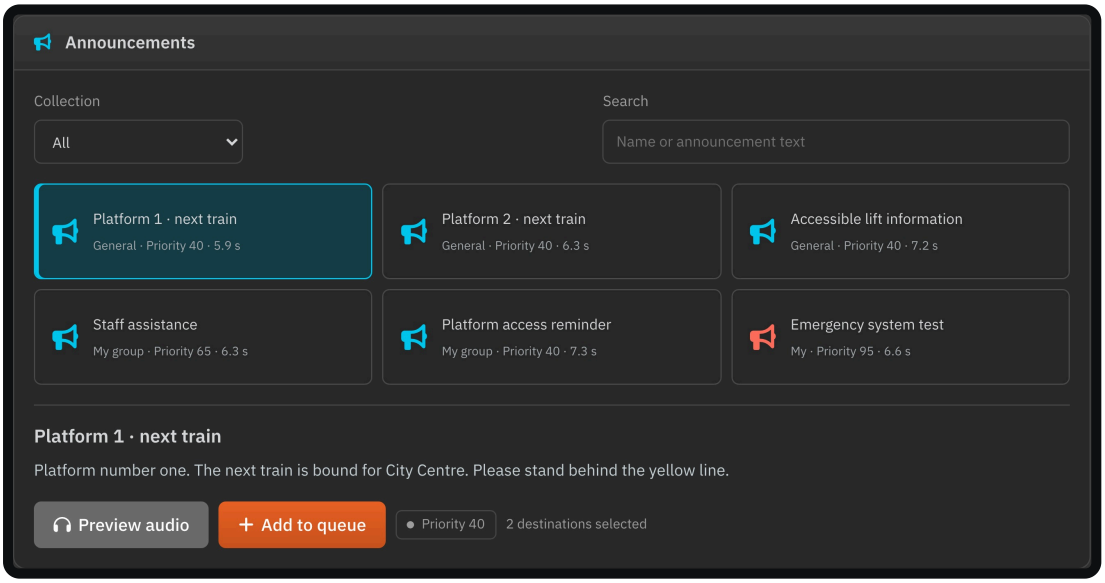
Smart pi LOG
Record announcements for later review.

Select. Check. Announce.

Keep the message and its destinations together, so a busy operator can see what will happen next.



Choose who hears it
Destination groups and individual channels make the target explicit.



Choose what they hear
Search the library, check the words, preview the audio and add it to the selected outputs.

Group the everyday selections

Create destination groups for platforms, concourses or a whole site. Operators can still select individual outputs for a local message.

Keep the last check simple

Preview the announcement before queuing it. Check the destination count and priority beside the playback controls.

SmartPi UI previews with fictional station data. Screens show the browser simulator.

When two messages need the same zone

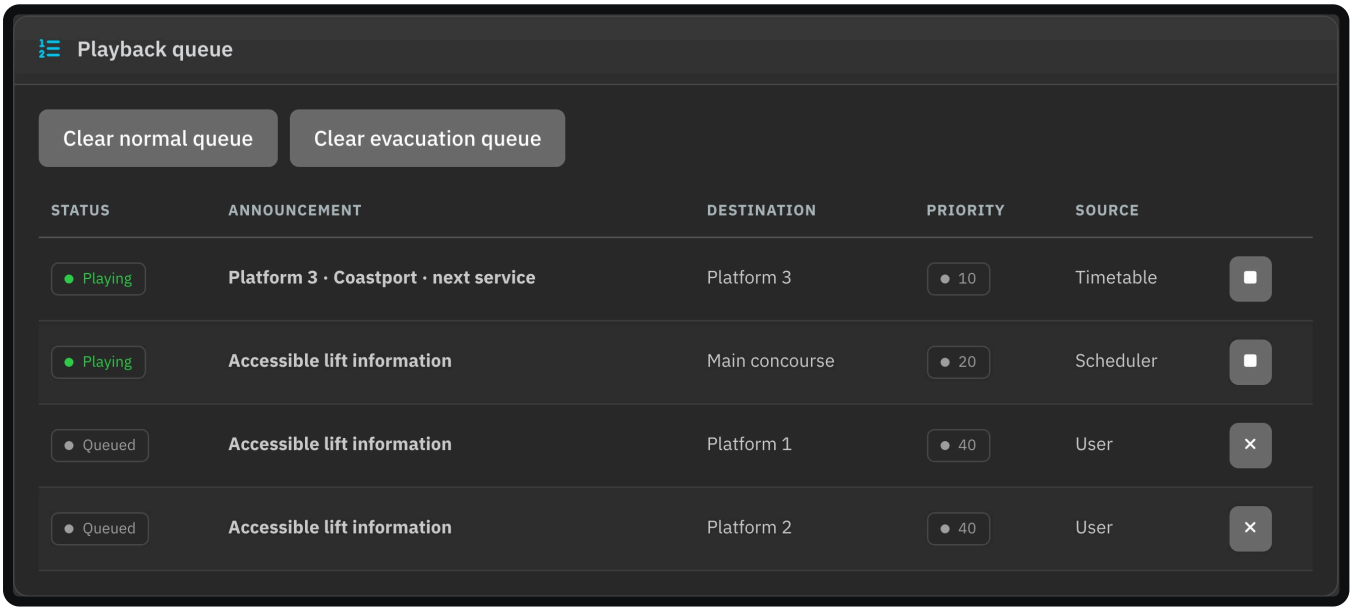
Each output resolves its own queue. An announcement on one platform need not hold up another.

1–90 · normal announcements

Higher numbers are selected first. Orders with the same priority are selected in the order they were queued.

91–100 · evacuation queue

Orders in this band are selected first in, first out. Do not assume a larger number changes their queued order.



A queue for each selected output
Playing and queued entries identify the destination, priority and source.

An interruption, step by step

1 · Routine message

A priority 10 service call is playing on a platform.

2 · Operator update

A priority 50 message arrives for that output and interrupts the current playback.

3 · Return to queue

The interrupted service call is requeued. The output selects its next order under the queue rules.

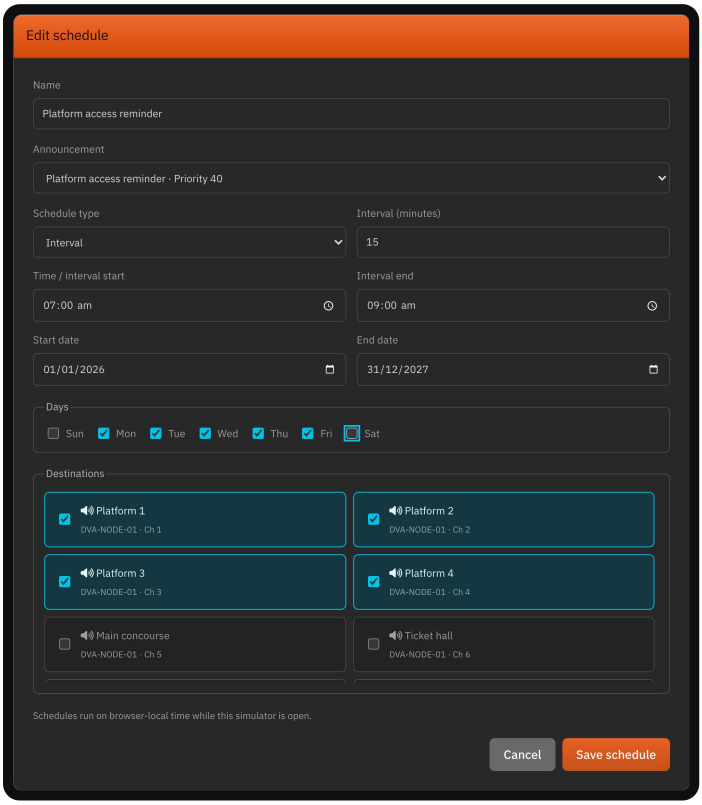
Clear the right queue

Normal and evacuation queues have separate clear controls. Agree the priority policy and test interruption behaviour during commissioning.

SmartPi UI previews with fictional station data. Screens show the browser simulator. Priority example is illustrative.

Set the routine.
Keep control of the exception.

Plan repeat announcements with time, date and destination controls.



Set the operating window
A schedule editor with example dates, weekdays and destination choices.

At a set time

Set daily start times for opening, closing or other regular notices. Scheduled orders support up to six daily start times.

At an interval

Use a repeat period within a start and end time, rather than creating each occurrence by hand.

On the right days

Use start and end dates and selected weekdays to control when an order is eligible to run.

In the right places

Choose the destination collection for the order. Confirm its announcement priority against the site's operating policy.

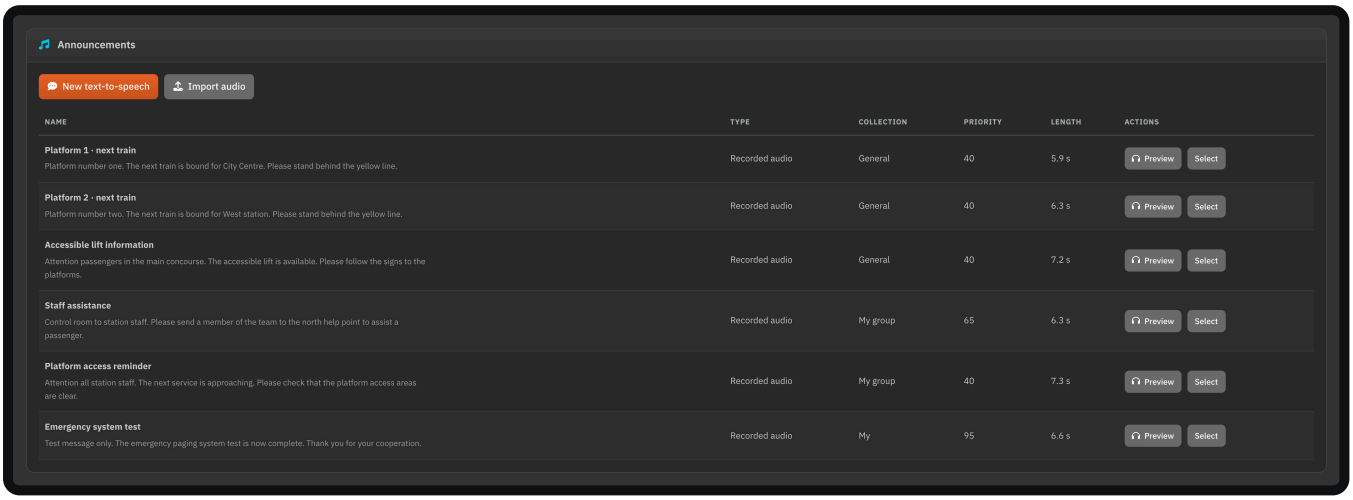
Example · a weekday reminder

Play a safety notice every 15 minutes between 07:00 and 09:00, Monday to Friday, on the platform group. Check the date window before enabling the order.

SmartPi UI previews with fictional station data. Screens show the browser simulator. Example operating policy only.

Make good messages easy to find again

Prepare the wording and audio once, then put them within reach of the people who need them.



One place for reusable announcements
An example library with text, priority and playback actions.

Record, import, reuse

Record an announcement from the browser or upload prepared audio. Keep a meaningful name and description so operators can find the right version.

Collections for different users

The operator interface separates general, group and personal announcements. Choose the collection that fits the message and its users.

Prepare a useful library

- Name messages by purpose and location.
- Check pronunciation and level before release.
- Use consistent voices and pacing.
- Agree ownership of revisions and retirement.

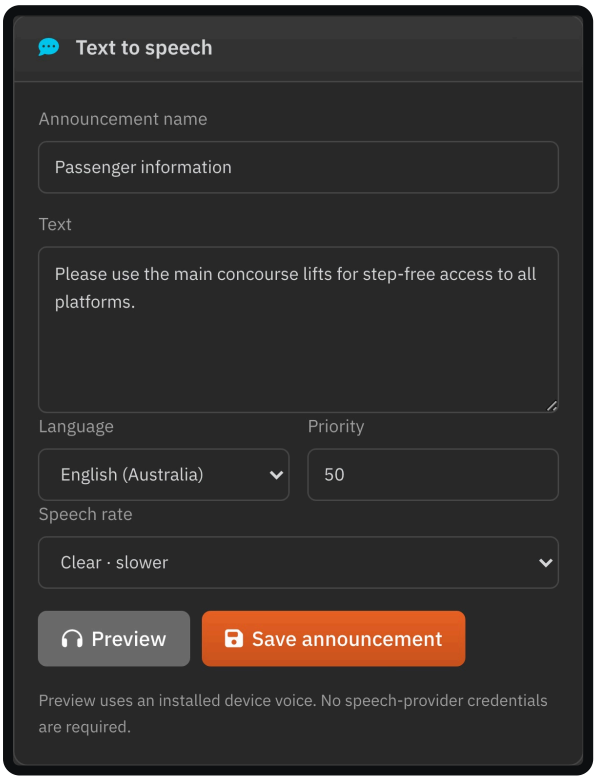
One asset, several ways to use it

A prepared announcement can be selected by an operator or referenced by a scheduled order. The order determines its destinations; playback still follows each output's queue.

SmartPi UI previews with fictional station data. Screens show the browser simulator.

From a change in service to words people can hear

Create a new spoken message when the information changes, without waiting for a new recording.



Write and preview
The simulator uses an installed device voice for its local preview.

Write for the listener

Use short sentences and unambiguous platform and destination names. Preview the complete message at the pace passengers will hear.

Choose the production voice

DVA supports speech generation using Murf.ai and Amazon Polly. Select the provider, voice and language for the deployment.

Keep the workflow familiar

Generated speech becomes an announcement that can be queued and scheduled alongside recorded audio.

Example · a clearer instruction

“Platform number two. The next train is bound for West Junction. Please stand behind the yellow line.”

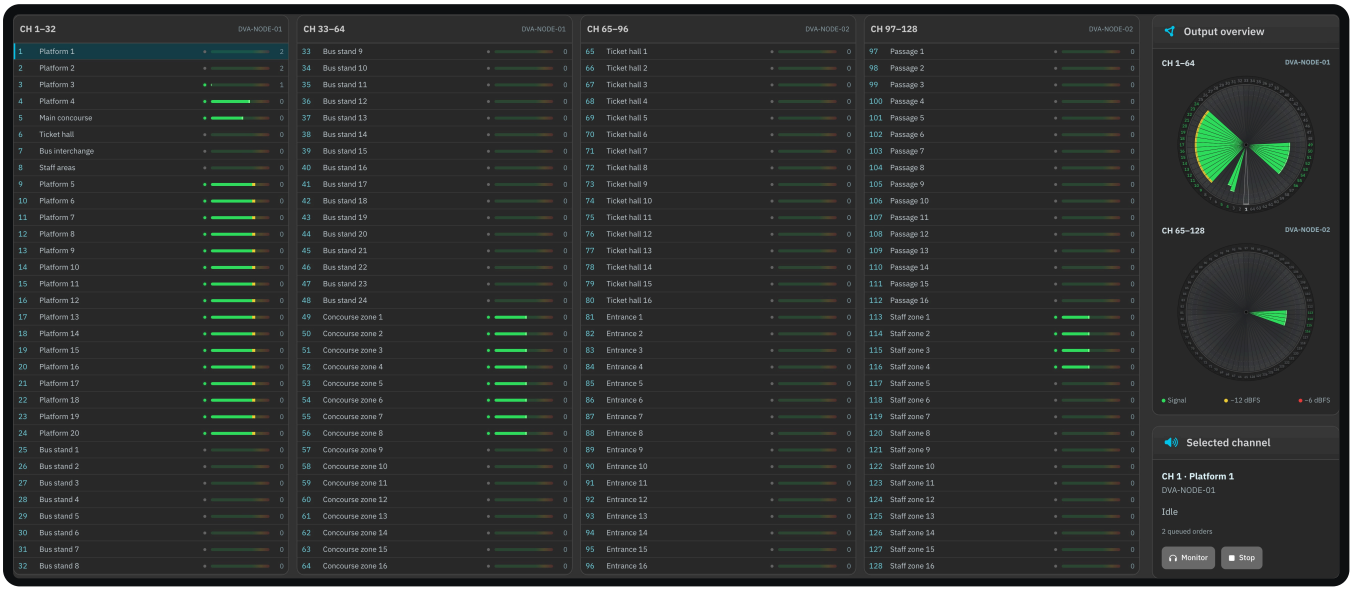
Before it goes live

Check local place names, abbreviations and multilingual wording with the operator. Listen through the site’s actual audio path as part of acceptance testing.

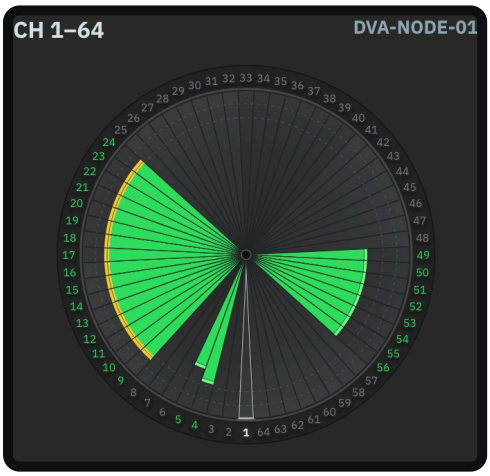
SmartPi UI previews with fictional station data. Screens show the browser simulator. Production speech providers require deployment configuration.

A lot of channels.
A clear view of activity.

Move between the network overview and the output that needs attention.



128 outputs in one view
Four banks of 32 channels show playback activity; radial meters summarise the two 64-channel nodes.



Look closer
Select an output to inspect its current message and queue.

See the whole bank

Compact rows keep channel names, activity and queue counts together. The example shows 128 outputs across two nodes.

Follow one output

Choose a channel to see its message, priority and remaining playback time. Monitoring and stop controls sit beside that context.

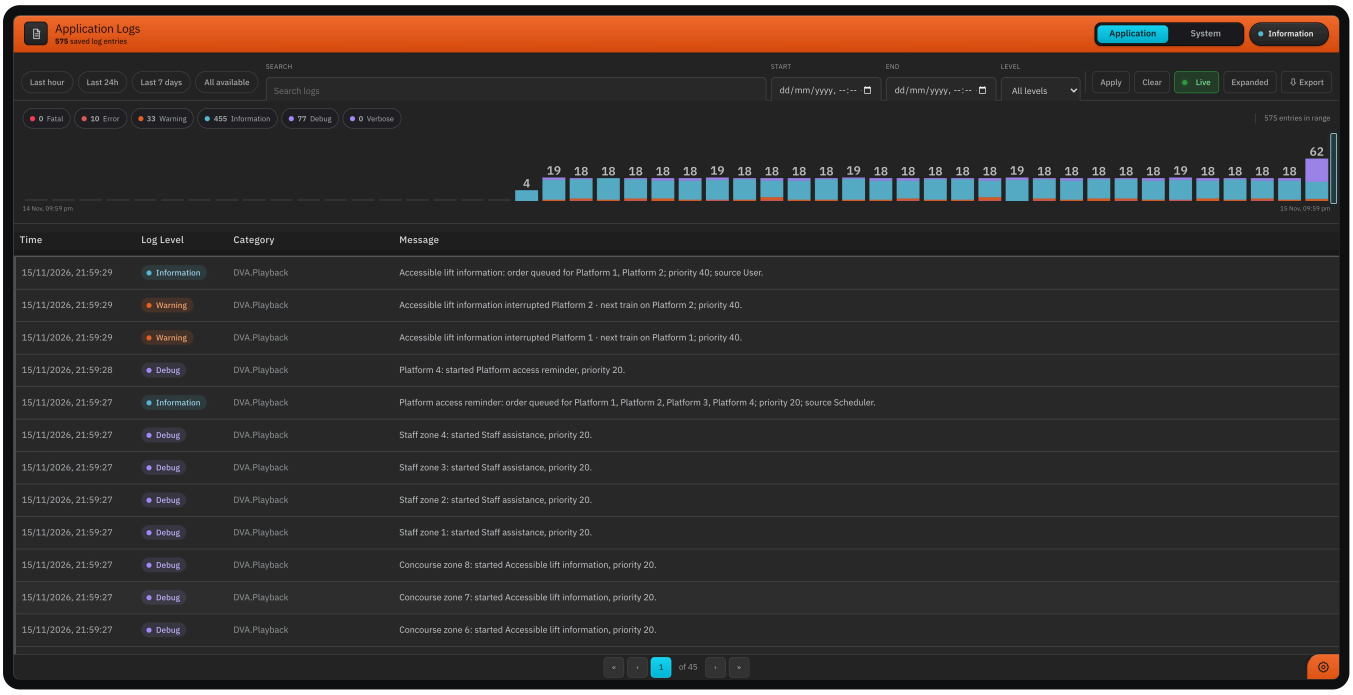
Scale the installation

DVA supports up to 512 audio channels per node. The licensed capacity and available outputs depend on the selected audio hardware and driver.

SmartPi UI previews with fictional station data. Screens show the browser simulator. The 128-channel arrangement is an example, not a product limit.

From the incoming event to the spoken result

Join the information, playback and review tools around a common operational workflow.



See what happened over time
Example event counts and an entry list for playback and system activity.

Connect the announcement chain

DVA-GTFS can turn timetable and realtime information into DVA orders. DVA handles announcement playback; DSP, NAM and NAM-HP handle routing, processing and amplification in the wider system.

Coordinate what people see

DVA announcement data supports EYE messages and mode changes, so spoken and visual information can be planned together.

Review with context

DVA queue logging records events such as an order being added, paused or requeued. Add Smart pi LOG when the project also needs audio recordings for later review.

Define the integration boundary

Agree which system owns the timetable, wording, destinations and priority. Test those handovers with sample service changes before connecting live feeds.

SmartPi UI previews with fictional station data. Screens show the browser simulator. The event timeline is an interface preview.

From the first zone to the whole network

1. **Map the destinations**
   List every output, its node, its physical area and the operator groups that can select it.

2. **Prepare the audio path**
   Confirm OS, audio driver, interface, licensing and network requirements for the channel count.

3. **Build the message library**
   Record or generate core messages. Check wording, pronunciation, level and ownership.

4. **Agree the operating rules**
   Set priorities, destination groups, user access and schedules. Test competing and interrupted orders.

5. **Prove the whole journey**
   Check every destination, monitoring path and integration. Exercise the agreed redundancy and recovery procedures.

Built for

Rail and metro · Bus interchanges · Ferry terminals · Airports · Venues and campuses

Plan capacity together

Size the servers and audio interfaces for the actual simultaneous outputs, nodes, library and integrations. Confirm the final configuration with the project team.

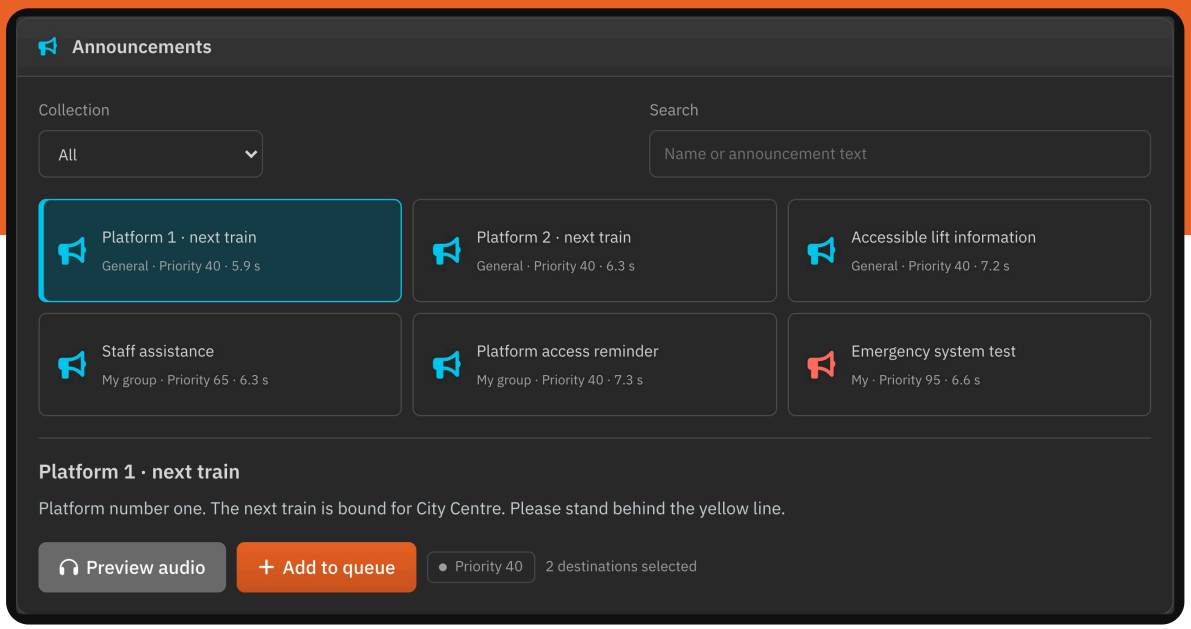
Start with an acceptance script

Use a known message on each zone, then test a schedule, an API order and a higher-priority interruption. Record the expected result for each case.

SMART PI DVA

Hear it work across your network.

Plan your destinations, messages and operating workflow with our team.



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Smart pi ECOsystem

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