



## Tunelový rozhlas

### The requirement

Slovakian highway construction and maintenance company, Národná diaľničná spoločnosť, a.s., recently deployed a sophisticated ASL Voice Alarm (VA) system for three motorway tunnels on the D1 and D3 motorways which bypass the city of Žilina in Northwest Slovakia, spanning over 6km of road. The brief was to provide an EN 54-compliant system for a series of motorway tunnels to allow for the safe and trouble-free evacuation of people in case of a fire event or traffic accident. The system had to cater for acoustic challenges of tunnels and to be centrally controlled and monitored.

### Summary

**Application:** Voice Alarm & Control System

**Product:** VIPEDIA-12-NET, V2000 Amplifiers, iVENCs

**Country:** Slovakia

### The solution

The system was designed and supplied by ASL's distributor and system design specialists, Avalon, with support from ASL. The three tunnels were treated as separate entities, with two or three racks installed in each. Each rack consisted of a VIPEDIA-12-NET audio controller with eight message players and ASL's V2000 range amplifiers, allowing complex scenarios to be programmed.



Built-in SFP modules allow the connection of the single mode fibre-optic cables required to cover the large distances involved. Delays to speaker outputs were calculated and configured via the VIPEDIA's powerful DSP to ensure optimum intelligibility.

An ASL iVENCs control system provides a central control and monitoring location that conveniently brings together the three remote tunnel systems. A 2D map shows the status of the PAVA system in the tunnel and allows pre-recorded and live announcements to be made as required.

### The result

Thanks to the high availability ASL voice alarm system, announcements can be heard clearly throughout the tunnels.

The unified control solution from ASL allows the system to be monitored from a central point – streamlining the operations of the client. Using an open protocol, iVENCs can be customised to the specific needs of any client to integrate seamlessly with existing systems.

To ensure the efficacy of the integration, ASL provided constant technical support and assisted in the remote configuration of devices.

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