

PUBLIC ANNOUNCEMENTS FOR COMMUTER RAIL

Datasheet



Service Time now 12:54:21

 Terminates

Platform
2

This train terminates here.
Please do not board this train.

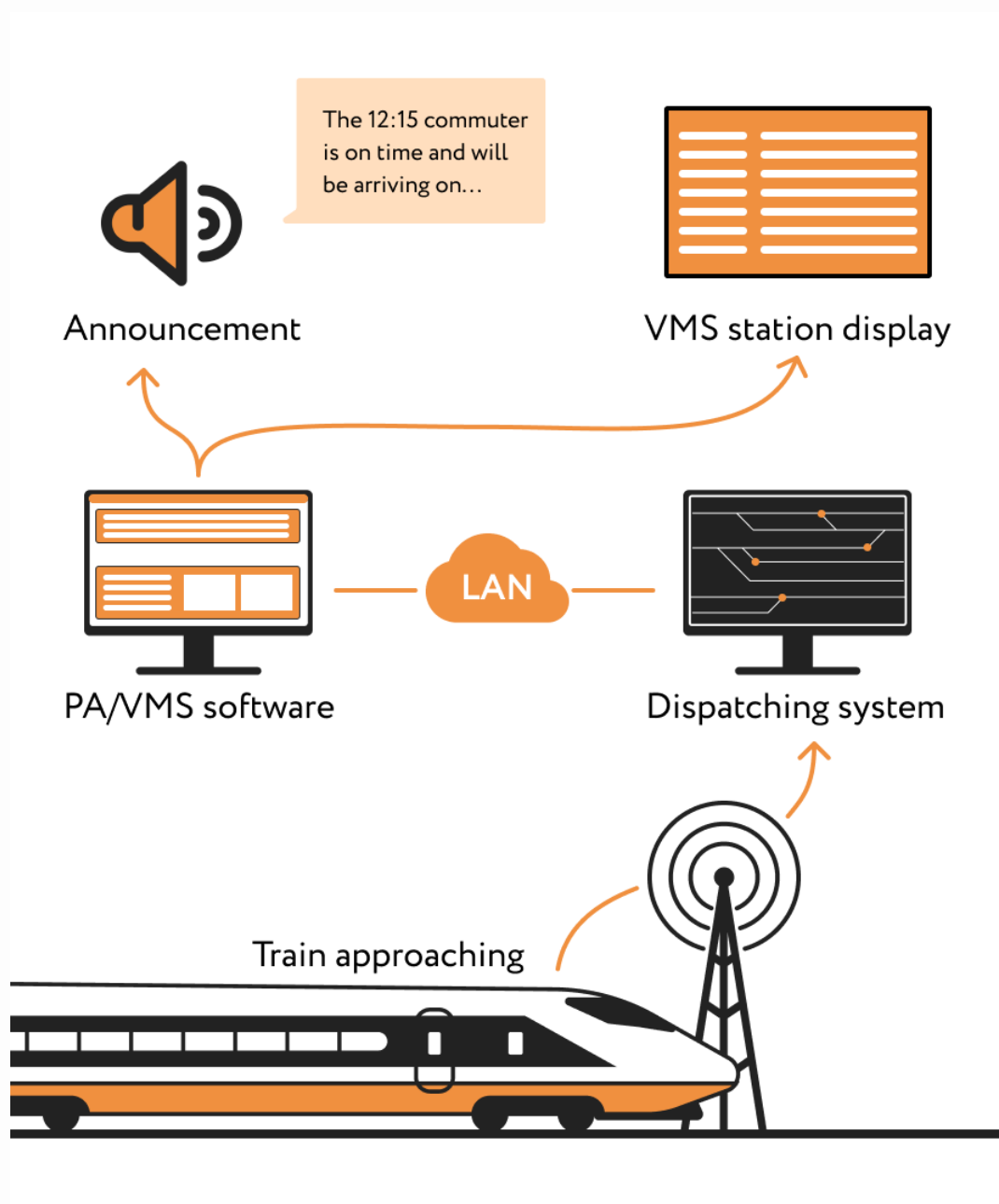
Arrives
2 hr 54m

Next Services	Platform	Departs
Moss Vale	2	3 hr 12m

United Group

Project objective

Expand the Traffic Control System (TCS) deployed on the existing freight rail stretch with the new functionality to support data provision to the stations on train status updates, as well as its management. Develop an interface between CAD and the Public Announcement (PA) system providing audio messages and Variable Message Signs (VMS) providing visual notifications to commuters.



Result

An automatic data provision from TCS to PA/VMS systems has been established. Train schedule management was integrated into existing TCS functionality in order to support train arrival/departure data provision for all 16 stations within the four-country area in the US. It was organized as a separate subsystem, which allows for the future scalability of the system. It became possible to manage both freight and commuter trains from one system within the controlled area.

Scope of work

- ❖ Onsite risk assessment associated with the Linux-based backend server and Windows-based display system
- ❖ New features implementation to enter new trains, monitor and update train position over the controlled territory
- ❖ Possibility to predict the station's arrival track and associated platform(s)
- ❖ Report of any special service characteristics for the arriving train's station
- ❖ Train arrival information to be available only for a network firewall-protected account from the PA/ VMS system's head-end server
- ❖ Configuration database and Rail Network Display updates to support Platform Station Train Destination type
- ❖ Adding new operation type for boarding/disembarking operations

Activities

- ❖ Functional requirements definition (onsite)
- ❖ Documentation review
- ❖ Architecture review
- ❖ Software development
- ❖ UI development
- ❖ Documentation creation
- ❖ Unit testing
- ❖ Functional testing
- ❖ Onsite integration testing
- ❖ Follow-on support

About the project

Technologies

- ❖ C/C++
- ❖ Rational Clear Case/Clear Quest
- ❖ C Shell
- ❖ Eclipse
- ❖ GCC
- ❖ Imake
- ❖ Ssh
- ❖ VPN
- ❖ TCP/IP
- ❖ Motif
- ❖ Xdesigner
- ❖ XML



Project size

- ❖ 2 people

Duration



Platform

- ❖ Linux
- ❖ Windows
- ❖ Embedded