



### Integrated Console

This integrated console includes a handset and audio unit with gooseneck microphone. The user can also connect a headset for a truly hands-free operation.

The FDT-310 is designed to be very easy to use and maintain, offering very high reliability which is required for railway operation.

### Network Connection

Connecting the Siemens GSM-R dispatcher terminal to the GSM-R Mobile Switching Centre (MSC) is straight forward using:

- A Siemens Hi-Path PABX, with full GSM-R voice functionality

### Integration with a Siemens Controller Server

The Siemens GSM-R Controller Server (CS) is designed to provide centralised support for the Siemens GSM-R dispatcher terminals. It allows management of their configuration and monitoring of their status and also allows the dispatchers access to centralised services such as: SMS text messaging and train location information from train tracking systems.

The controller server also takes care of the critical function of dispatcher terminal role management, ensuring that the right dispatcher always has the right information.

### Benefits

- Extends dispatcher terminal functionality beyond EIRENE requirements.
- Allows easy and dynamic re-mapping of dispatcher control areas.
- Remote monitoring allows faults to be quickly detected, allowing rapid deployment of maintenance to avoid lengthy delays.
- Support for existing train location system enables accurate call routing to the controller and a dynamic train list at the controller's terminal.
- Uses industry standard hardware that lowers ownership overheads and simplifies integration with existing IT infrastructure.
- Controller server is dual redundant, hot swappable, uses Lockstep technology, and has failsafe software to minimise system downtime.

### Touch Screen

Touch screen technology offers a simple way of operating the dispatcher terminal without needing a separate keyboard or mouse, which can be provided as optional extras.

## Fixed Dispatcher Terminal FDT-310

Flexible, intuitive dispatcher solutions

[siemens.com/mobility](http://siemens.com/mobility)

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Inclusion of a Controller Server as a Siemens GSM-R solution will enhance system functionality by integrating a number of useful features:



Controller server

### Features

Enhanced Location Dependant Addressing (eLDA) based on track position or GPS - much more accurate than cell-based addressing alone.

Provides a central facility for management of dispatcher terminal configurable data such as phone books and predefined SMS text messages.

Allows control and download of dispatcher terminal software updates.

Flexible allocation of dispatcher terminal roles and responsibility with automatic re-assignment on equipment failure.

Centralised gathering of diagnostic information and alarm reporting.

Dispatcher SMS text message routing using functional numbers and eLDA.

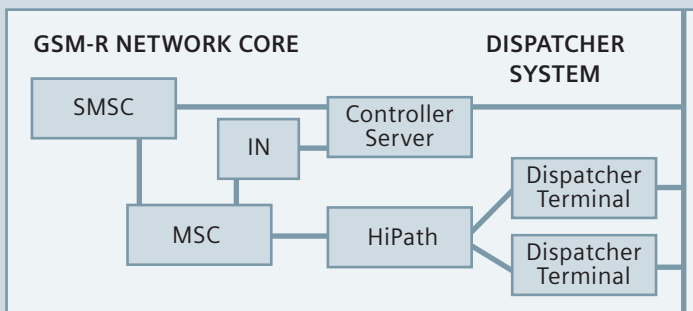
Continuously updated location information for dispatcher's control area.

### Architecture and network connection

The controller server is based on a fault tolerant Stratus ftServer giving 99.999% availability in a compact 4U high 19" rack mountable unit.

Connections to other systems, such as the GSM-R Intelligent Network (IN) and railway information sources, employ duplicated links to ensure continued operation in the event of communication failures.

- Connects to IN via duplicated TCP/IP LAN connection.
- Connects to SMSC via standard SMPP over TCP/IP LAN.
- Connects to Siemens dispatcher terminals via TCP/IP LAN.
- Connects to other railway data systems (such as Train Location Systems) via TCP/IP over LAN or serial links.



### Essential GSM-R Features

Fully EIRENE compliant

Ordered list of multiple incoming calls

Call priority handling / emergency calls

Call set up by functional number

Call set up by MSISDN

Call hold / restore

Call Transfer / multiparty

Group and broadcast call handling including mute / un-mute and kill

Multiple language support for Human Computer Interface (HCI)

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