

Product brief: FTS 3020

Safety-enhancing communication platform

The Fixed Terminal System 3020 (FTS 3020) draws upon our expertise as the number one provider of voice and data operations communication platforms, with over 10,000 railway dispatcher terminals delivered to customer control centres in over 25 countries. FTS 3020 enables rapid recovery of normal, automatic train operations, while also supporting the safe movement of trains in areas with non-automatic operations. FTS 3020 is designed for train/traffic controllers in control centres to communicate with the train driver, as well as service staff on the train or maintenance staff on the track. Built on the latest IP architecture configured for active redundancy, it offers high levels of reliability and availability, even in single-node deployments.

Key features

High reliability

FTS 3020 is the only voice and data-operations communication platform on the market today that uncouples audio functionality from the physical dispatcher terminal—eliminating the potential for disruption caused by compatibility issues between commercial off-the-shelf (COTS) audio devices and the underlying operating system.

Legacy support, future-ready

FTS 3020 supports a comprehensive range of legacy interfaces, including ISDN to GSM-R, ISDN to PBX or PSTN networks, analogue radio (UIC 751-3), public announcement systems and trackside communication devices. By consolidating communications in a unified dispatcher terminal network, organisations can maximise the value of their existing investments while supporting new capabilities and services via GSM-R connections based on SIP-R, TETRA networks or public/dedicated mobile networks (4G/5G).

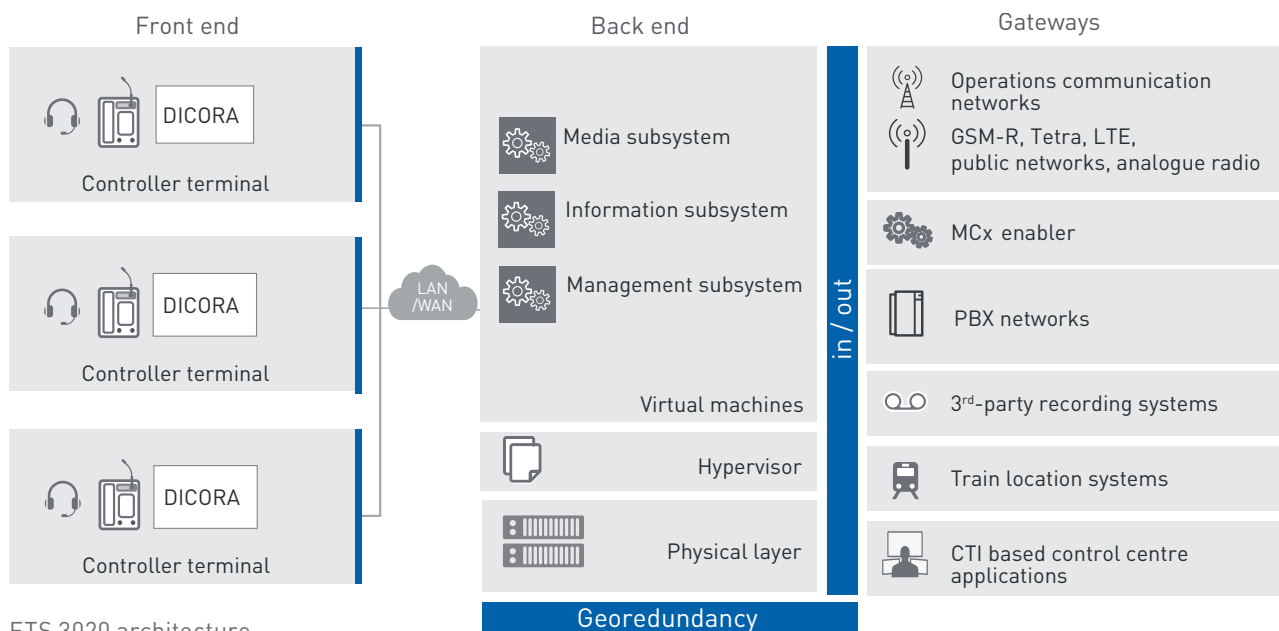
Low-risk deployment

FTS 3020 is IP-based and uses primarily COTS equipment, so organisations can avoid the inherent cost and risk of vendor lock-in associated with proprietary technologies. Frequentis offers the peace of mind of an end-to-end solution that includes deployment and configuration, as well as ongoing management and maintenance services.



FTS 3020 at a glance

- Enables rapid recovery of normal automatic train operations in the event of disruption.
- IP-based virtualised core node facilitates deployment on existing IT equipment, reduces the need for costly dedicated hardware, and enables integration into existing data centre infrastructure.
- Easily configurable to support specific operational needs and dispatcher workflow patterns, minimising training requirements and shortening time-to-value.
- Scalable, flexible solution supports for everything from management of a single railway line to command and control centres responsible for countrywide rail networks.



FTS 3020 architecture

Benefits

Future-oriented versatility

FTS 3020 meets all EIRENE 8/16 functional requirements specifications. It also enables bearer-independent communication and MCx integration, thus marking a first step towards FRMCS.

Add new capabilities rapidly

The IP architecture of FTS 3020 enables flexible interfacing between legacy communication infrastructures and IP-based GSM-R or 4G/5G network

elements. With this built-in flexibility, organisations can deploy modern IP-based technologies and build next-generation rail services without the need to decommission their existing legacy platforms first.

Optimise dispatcher efficiency

The role-management capabilities embedded in FTS 3020 allow organisations to drive efficient resource management by using automated role sharing to evenly distribute workloads during peak and off-peak hours, and facilitate safe and effective shift-changes.

System specifications table

Number of dispatcher terminals:	up to 2000
Interface to GSM-R NSS	ETSI TS 103 389 (SIP-R), ISDN PRI
Interface to recording systems	ETSI TS 103 389 (SIP-R), ISDN PRI
Interface to PBX	SIP/RTP to ISDN PRI, Q-SIG
Interface to dispatcher terminals	SIP/RTP
Interface to SMS centre	SMPP V3.4 – SMPP Developers Forum 1999
EIRENE standard:	FRS 8.0.0 / SRS 16.0.0