Product brief: FTS 3020

Mission-critical control room application

The Frequentis fixed terminal system – FTS 3020 – enables rapid recovery of normal, automatic train operations, while also supporting the safe movement of trains in areas with non-automatic operations. It is designed for train/traffic controllers in control centres to communicate with the train driver, as well as with service staff on the train or maintenance staff on the track. Built on a SIP/IP architecture configured for active redundancy, FTS 3020 offers high levels of reliability and availability, even in single-node deployments.

Key features

Easy-to-use user interface

Experience the intuitive user interface of the dispatcher terminal, developed and proven with 20,000+ controllers.

Flexibility

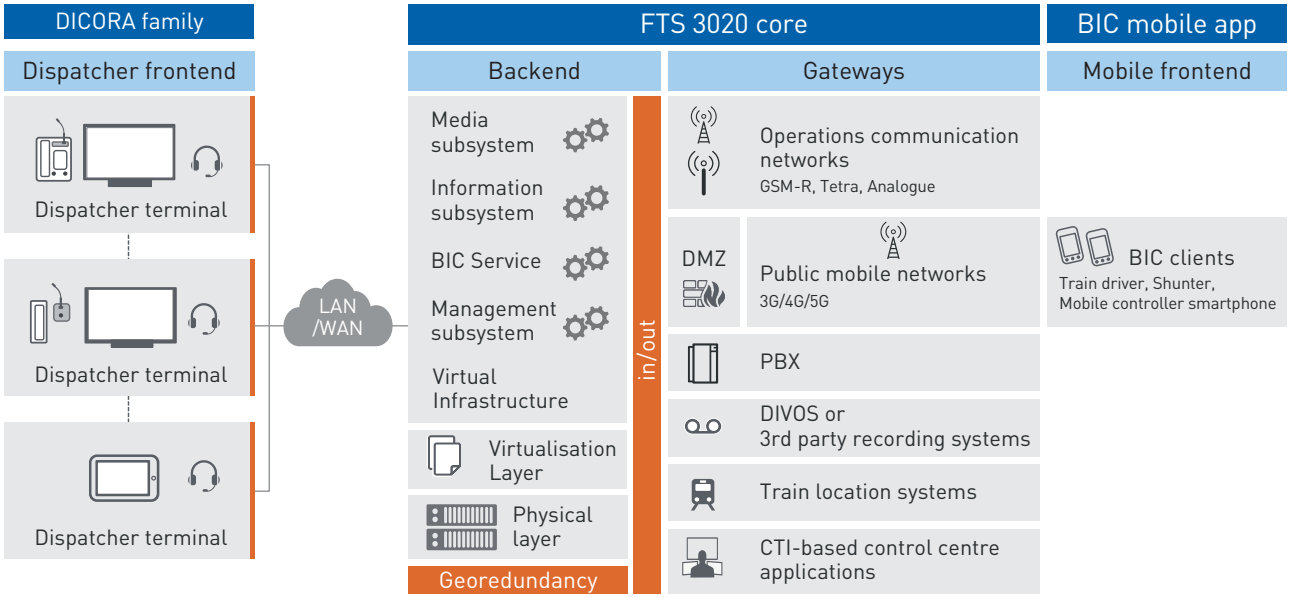
Adapt the user interface of the dispatcher terminal to support existing workflow patterns and organisational needs. The modular concept is based on three terminal types, with a versatile combination of audio devices, making the solution highly adaptable to changing customer circumstances.

Bearer-flexible, future-ready

FTS 3020 supports numerous 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. Unify your dispatcher terminal network to maximise the value of existing investments, while delivering new capabilities via GSM-R connections on SIP-R, TETRA or public/dedicated 4G/5G networks. For the latter one, the FTS 3020 portfolio includes the new BIC (Bearer-Independent Communication) service in combination with a mobile client app in order to provide GSM-R emulated services as over-the-top services in 4G/5G networks for areas without GSM-R coverage, providing a bridging technology suitable for future migration to FRMCS/MCX.

FTS 3020 at a glance

- 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, 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 5,000
Number of BIC terminals	up to 50,000
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

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