DAMM TetraFlex® Group Bridge

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Bridging is commonly used for interconnecting two non-compatible networks. These can be networks of different technologies or networks of the same technology but from various providers. Bridging allows users from different networks to communicate with each other or even move back and forth between their home network and the foreign network.

The DAMM TetraFlex® Group Bridge provides total communications flexibility. It enables group calls between TETRA, DMR and/ or analog networks, creating valuable interoperability between many different systems.

USE CASES FOR BRIDGING

MIGRATION FROM OLD TO NEW

If replacing an existing PMR network with a new DAMM infrastructure, the DAMM TetraFlex® Group Bridge can be used to offer joint group calls between users from the old and the new network. This will allow migration to the new technology over a longer period of time, in a fully controlled manner. This flexibility is especially important for large networks or if the end-user equipment is installed in vehicles, which can complicate a quick migration.

GROUP COMMUNICATION BETWEEN NETWORKS

In some cases, various technologies have been deployed to serve end-users, who have different communication needs, and there is no intention to migrate them to a single, unified network. The DAMM TetraFlex®

Group Bridge allows smooth PTT group communication across different networks of any technology. Note that if two networks use the same frequency band and technology (TETRA or DMR), users may even move between these networks, provided that they have been provisioned locally in both networks.

Simplicity and flexibility

The DAMM TetraFlex® Group Bridge is based on donor radios, which means that no integration to the foreign network is required. This is especially useful, when migrating from an old technology, where technical support is not available anymore.

Distributed architecture

The DAMM bridging solution is fully integrated to DAMM's IP-based distributed network architecture. This means that gateway nodes and donor radios can be placed anywhere in the network, which makes deployment really simple.

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Additional information

Did you know?

DAMM is supporting the ETSI standardised Inter System Interface (ISI)
For more advanced communication features between TETRA networks DAMM is offering ISI.
Connecting a DAMM network with another manufacturer's TETRA network requires the other
network to also support IP-based ISI.

The table below shows the offered functionalities for the DAMM TetraFlex® Group Bridge and
DAMM Inter System Interface (ISI):

	DAMM TetraFlex® Group Bridge	DAMM Inter System Interface (ISI)
Technology of the foreign network	Any PMR technology e.g. TETRA, DMR or P25	TETRA**
Group calls	Supported	Supported
Individual calls	Not supported	Supported
Group messaging	Supported for TETRA	Supported
Individual messaging	Not supported	Supported
Migration between networks	Not supported*	Supported

** If users are provisioned in both networks, they can move between the networks, but a network will
not know that a user is in the other network*
** The networks must have different identities (MNC/MCC)

DAMM infrastructure is a multi-technology platform
The core-connected network architecture of DAMM supports TETRA, DMR, analog and
broadband devices. If you use a DAMM infrastructure with any combination of these
technologies, no bridging is required as all technologies will use one unified network platform,
including subscriber management, dispatcher and logging system.

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