

WELL-INFORMED ON THE HIGH SEAS

MEDIA BROADCAST provides soldiers in the German Navy with same-day news from their homeland.



Far removed from family and friends, current news is hard to come by. Now troops can always be close to home via digital shortwave.

Always informed

Soldiers in the German Navy receive same-day news and greetings from their homeland even at sea. MEDIA BROADCAST has been providing the fleet with audio, text and image content via the digital broadcasting system Digital Radio Mondiale (DRM) since 2013. The online editorial department at Radio Andernach submits its content as well as news from Deutschlandradio and n-tv to MEDIA BROADCAST, where it is encrypted and broadcast to virtually any point on the globe.

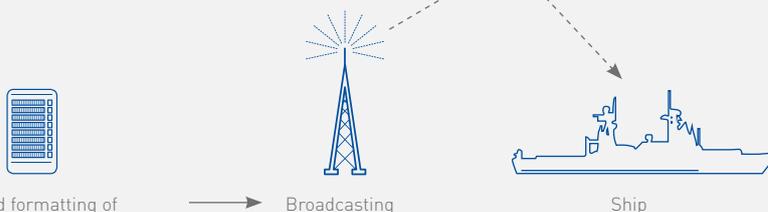
High quality and efficient

Digital Radio Mondiale is a broadcasting system for cost-effective distribution of IP-based data via digital shortwave. MEDIA BROADCAST uses DRM to transmit high quality encrypted audio data, text messages and video slideshows to German Navy ships. **This can also be implemented for the Army and Air Force.** The content is transmitted from a central broadcasting site with five adjustable antennas, with a transmitting power capacity of up to 200 kW.

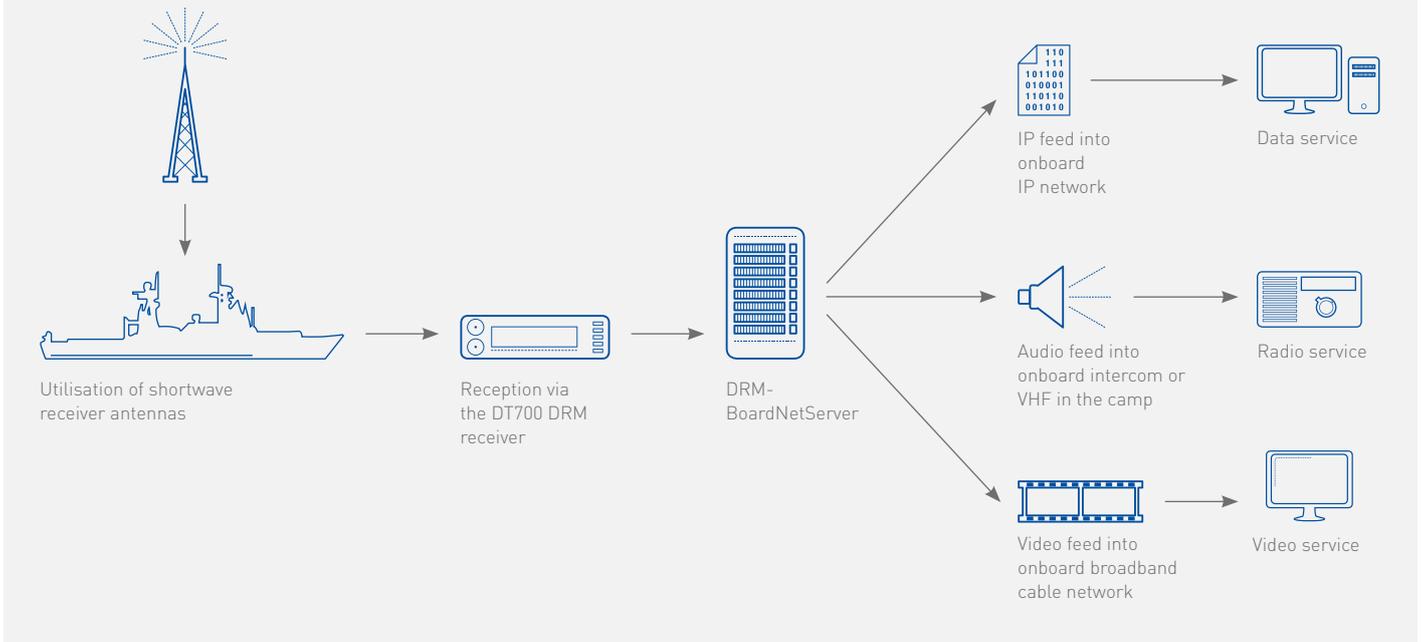
CURRENT NEWS FOR THE TROOPS

- ✓ Same-day news to virtually any point on the globe
- ✓ Cost-effective transmission via digital shortwave instead of satellite
- ✓ News and greetings via audio, text and video slideshow
- ✓ Encrypted data transmission using HECA (High Efficiency Conditional Access)
- ✓ Very good quality thanks to HF digital technology
- ✓ Professional implementation of the DRM server
- ✓ Central transmission station in Nauen, Brandenburg with five adjustable antennas and 200 kW of transmitting power

Technical implementation: the route to the ship



Encrypted IP transmission for the Navy



The route to the ship

German Navy ships receive the encrypted IP data stream using existing shortwave receiver antennas and a DRM receiver. The receiver then transfers the data to a DRM BoardNetServer, where it is decrypted and fed into the local networks: the onboard IP network, the ship's intercom system (SLA) and the broadband cable (BK) network. The soldiers access troop entertainment broadcaster's audio programme, text messages from Deutschlandradio and video slideshows from n-tv via these channels.

Securely distributed

MEDIA BROADCAST and the Fraunhofer Institute played a leading role in developing the DRM standard. They also jointly developed the HECA (High Efficiency Conditional Access) encryption system, which is used in signal transmission and meets the specific requirements of digital broadcasting.

Unlike point to point satellite transmission, Digital Radio Mondiale broadcasts reach all receivers simultaneously.

YEARS OF EXPERIENCE IN TV, BROADCASTING AND NETWORKS

- ✓ Europe's largest full service provider for the broadcasting and media industry
- ✓ Leading provider of production and broadcasting solutions for high quality TV and internet
- ✓ Partnership with the Bundeswehr since 1999
- ✓ Experience in the field of short and medium wave transmission since 1964

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About MEDIA BROADCAST

MEDIA BROADCAST is Europe's largest full-service provider for the broadcast and media industry. The company's core business includes the planning, set-up and operation of multi-media transmission platforms for television and radio on the basis of modern terrestrial, fibre and satellite networks, both nationally and globally. As a subsidiary of TDF Group, MEDIA BROADCAST serves around 750 customers: public and commercial broadcasters, TV and radio production companies, cable network operators, media authorities as well as private enterprises and public institutions.

