### What Is IPTV

Local IP networks enable all the features of two-way television to be accessed. Network technologies are widely spread at the moment. They are used for Internet connection, IP telephony and also IP television. IPTV technology allows television content to be broadcast into IP networks with HD video and multi-channel audio. The requirements for achieving this are an IP network with multicast broadcasting support, a head-end that receives external digital TV signals and manages all the IPTV systems, and set-top boxes for subscribers’ TV’s. The IP protocol enables two-way connections between head-end and set-top boxes to be organized. Thanks to all these functions, users can enjoy interactive TV and other media features not available to conventional television subscribers.

### Why Choose Wärtsilä?

With the Wärtsilä IPTV Entertainment system your crew will be able to relax after work, just as they do at home. By supplying your vessel with the latest in IPTV technology, which receives FOC functional updates on a regular basis, your people can watch Digital SAT-TV, listen to Digital Radio, watch all the latest movies and the best TV series. Additionally, there is a pre-loaded music library, to really make your crew feel at home. The movie and TV series content is complete with covers, trailers and subtitles. Wärtsilä can deliver all the latest and classic movies with official licensing in compliance with the latest MLC-2006 regulations.

Wärtsilä Infotainment system gives you full control. Packages can be assembled to suit your budget, and your own entertainment tasks.

### Introduction into IPTV

#### Besides Classical TV Channels, IPTV Provides Additional Interactive Features:

- **Video on Demand (VOD)** delivers video content on an individual basis to a subscriber. This service allows its users to order any movie for watching from the VOD server’s media library. The subscriber can use the pause and rewind features.

- **Like VOD, Near Video on Demand (nVOD)** is a pay-per-view video service but is intended for multiple users subscribed to nVOD service. The schedule of content broadcasting is compiled beforehand. Subscribers can check the schedule and plan their viewing accordingly.

- **Time Shifted TV** adds interactive features to TV channels being viewed. The subscriber can pause the playback at any time and resume it later. There is also a rewind option for TV programs.

- **TV on Demand (TVOD)** allows TV programs to be recorded and viewed whenever convenient.

- **Interactive features**: users are able to control the playback of movies and/or TV series. Also, users have the ability to store shows for later watching.
Feature Overview

- Satellite, terrestrial and cable TV channels
- Electronic Program Guide (EPG)
- Video on Demand (VOD)
- Near Video on Demand (nVOD)
- TV on Demand (TVOD)
- Time-Shifted TV
- (Network) Personal Video Recorder
- Licensed Video on Demand content
- Music on Demand
- Internet radio
- User Management System
- Conditional Access System
- Remote support
- (CAS/DRM) content protection
- Safety Movies
- Vessel information
- Various interactive features from IP set-top boxes (bill view, web browsing, etc.)
- Content source and management (DVB to IP gateways, MPEG/HDMI encoders, VOD/ nVOD servers)
- Interactive user interface for IP setup boxes (IPTV Middleware)
- Interface to external video sources such as CCTV systems
- Interface to a hotel Property Management System (PMS)
- Bring your own device (BYOD) for IOS and Android

Wärtsilä has developed several editions of its easy to install IPTV solutions which are all based on the same compact 1HU headend unit. This allows customers to choose the version best suited their needs.

### IPTV Versions

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### Additional Services

- **Licensed Movies**
  - New releases
  - Classic movies
  - TV Shows and series
- **Licensed Music**
  - Custom music playlist
  - Music on demand (separate license)
- **TV Subscriptions**
  - Subscription Smartcards and CAM modules
- **Additional Hardware**
  - Television
  - Video equipment
  - Audio equipment

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Keep you crew informed and entertained with Wärtsilä Infotainment systems
Wärtsilä is a global leader in complete lifecycle power solutions for the marine and energy markets. By emphasising technological innovation and total efficiency, Wärtsilä maximises the environmental and economic performance of the vessels and power plants of its customers.