DVB-T2 & T2-Lite
Second generation of DTTV

Description
This training course is dedicated to any attendee who expresses interest in learning more about the second generation of Digital Terrestrial TV systems - DVB-T2 - and its new “T2-Lite” profile introduced in its latest release 1.3.1.

It is a great opportunity for any actor of the Digital TV ecosystem such as TV broadcasters, transmitter manufacturers, terminal manufacturers and system integrators to focus on the DVB-T2 and T2-Lite market, technologies and systems.

It is also the occasion to understand how the hybrid T2-Lite/T2-Base transmission can answer to the new market trends: the growing interest in Ultra-HD offering new exciting way to consume TV, in parallel of live video consumption on mobile devices which is also massively emerging.

Courses objectives
This training course aims at providing basic theoretical and practical knowledge on the DVB-T2 and T2-Lite systems and standards. First of all, it provides a wide overview of market segments and applications that would be addressed with these standards. Secondly, a comprehensive explanation of the global transmission chain is given before getting into more details on the technical parts such as: the DVB-T2 modulation, the multi-PLP service implementation, the hybrid mode for simultaneous stationary and mobile broadcast, etc. A focus on T2-Lite’s additional technologies and features will be made. Finally, the theoretical aspects are then demonstrated on TeamCast product during a practical session.

TeamCast Training
• Worldwide leader in DVB-T2
• Active member of DVB
• At the forefront of T2-Lite
• High level of technical expertise
• Early adopters experience sharing
• Practise sessions on T2 products

Ultra-HD over DVB-T2
Mobile with T2-Lite

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**Course content**

- **DVB-T2 and T2-Lite Introduction**
  - TV standard world wide landscape - from analogue to digital
  - Understand the standardization process and the DVB group
  - DVB-T and DVB-T2 terrestrial standard story
  - T2-Lite for mobile TV

- **DVB-T2 Market & Trends**
  - Introduction of needs for second generation of terrestrial DTV technology
  - DVB-T2 standard milestones & key benefits
  - DVB-T2 worldwide map
  - Different business models and market key drivers: HD, Ultra-HD 4K, 3D TV...
  - DVB-T2 illustration with UK, Finland, Russia, Germany, India
  - Questions of the digital dividend and Spectrum allocation
  - Needs from Broadcaster to occupy spectrum and to extend to mobile service
  - T2-Lite profile for mobile services onto DVB-T2 network
  - T2-Lite milestones and illustration with use-cases (Spain, India...)

- **DVB-T2 and T2-Lite Technologies**
  - Overall architecture
  - DVB-T2 System A versus System B
  - DVB-T2 Modulator Interface (T2-MI)
  - Multi-stream management (Physical Layer Pipes - PLPs)
  - SFN principles and MISO architecture
  - Comparison between DVB-T2 and DVB-T
  - T2-Lite profile as a subset of DVB-T2
  - Constraints for stationary and mobile broadcast
  - FEF frames solution
  - T2-Base and T2-Lite profiles for Hybrid transmission mode
  - Performances and coverage (BER, C/N...)
  - DVB-T2 and T2-Lite receivers

- **TeamCast solution for DVB-T2 & T2-Lite**
  - TeamCast position and strategy
  - TWISTER Modulator
  - RQX Demodulator and QoS probe

- **Practical Session (Optional)**
  - How to configure a DVB-T2 network for stationary services
  - How to configure a DVB-T2 network for mobile services
  - Setup of the hybrid T2-Base/T2-Lite transmission
  - Experience reception on T2-Lite mobile devices
  - How to optimize transmitter operating (RF performances and Power Efficiency)

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**Conditions**

**Description**

On site training course:
- 2 days training course
- Excluding travel and accommodation costs
- Price covers demo materials and training documentation

TEAMCAST in-house training (France)
- Price: please contact TEAMCAST’S sales department
- Price covers demo materials, training documentation, lunch and coffee breaks
- Participants are responsible for their own travel and accommodation costs

*DVB is a registered trade mark of the DVB project*