

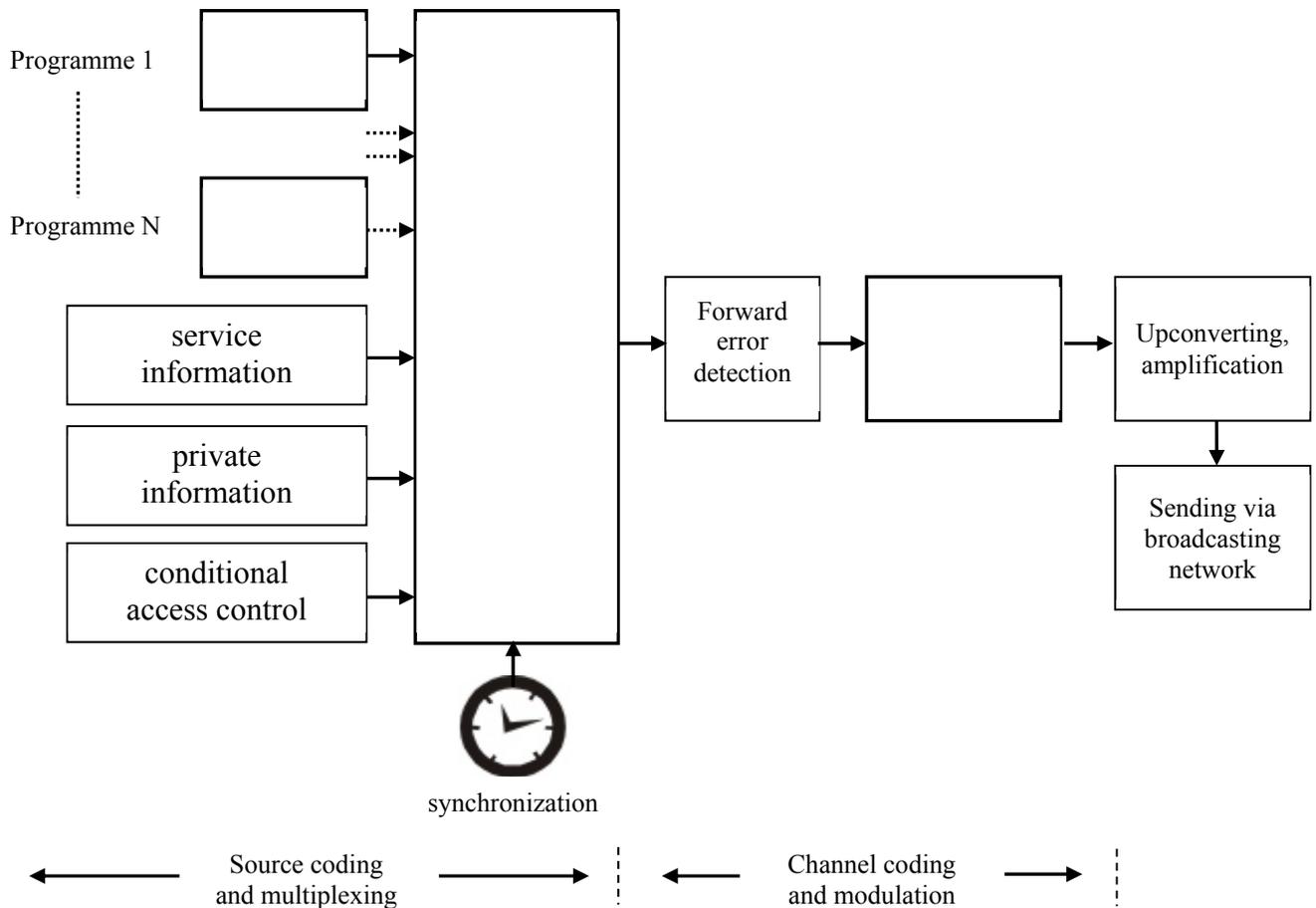
1. DVB (Digital Video Broadcasting):

- represents digital radio system for multimedia content delivery
- is a collection of open standards maintained by DVB Project consortium which covers digital television broadcasting
- for audio coding Dolby DIGITAL AC-3 is used
- depending on transmission media it uses PSK modulation

2. In general, MPEG-2 systems layer performs:

- a) _____
- b) _____
- c) _____
- d) _____

3. Fill in empty (red) components of block diagram for DVB transmitter!



4. DVB standards include TV broadcasting via:

1. cable _____
2. satellite _____
3. terrestrial transmissions _____
4. return channel _____
5. microwave broadcasting _____
6. transmission of data services with high bit rate _____

**(DVB-C, DVB-C2), (DVB-MC/MS), (DVB-S, DVB-S2, DVB-S2X, DVB-SH),
(DVB-Data), (DVB-T, DVB-T2, DVB-H), (DVB-RCS/RCT/RCC)**

5. DVB-T/T2 services are aired terrestrially within the ultra-high frequency (UHF) band covering frequencies in a range from:

- 30 MHz to 30 GHz
 - 300 MHz to 3 GHz
 - 3 MHz to 30 GHz
 - 3 MHz to 3 GHz
-

6. Currently, conventional geostationary satellite contains:

- from 2 to 3 transponders
and one transponder have a bandwidth ranging from 20 to 50 MHz
 - from 3 to 10 transponders
and one transponder have a bandwidth ranging from 50 to 100 MHz
 - from 200 to 300 transponders
and one transponder have a bandwidth ranging from 26 to 72 MHz
 - about 20 to 30 transponders
and one transponder have a bandwidth ranging from 26 to 72 MHz
-

7. HbbTV – Hybrid broadcast broadband TV:

HbbTV is a global initiative focused on the harmonization of broadcast and _____
_____ and on the proposal of technical specifications how to deliver these services and
applications to end users through connected _____, set-top boxes and multi-screen devices.

