

**1. DVB stands for:**

Data Video Broadcasting

Digital Video Broadcasting

Database Video Broadcasting

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**2. Write three core services which the DVB technology provides!**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

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**3. Assign services below to interactive or pseudo-interactive group!**

<b>interactive</b>	<b>pseudo-interactive</b>

- 1 – Electronic news
- 2 – Electronic banking
- 3 – Video-services
- 4 – Webcasting
- 5 – Auction systems
- 6 – Internet access
- 7 – Electronic business
- 8 – Advertisement information

## 4. What standard is not DVB standard?

DVB-S	DVB-C	DVB-TV	DVB-SI	DVB-T
DVB-SK	DVB-CSA	DVB-Data	DVB-H	DVB-WEB

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## 5. Specify functions performed by the MPEG-2 systems layer.

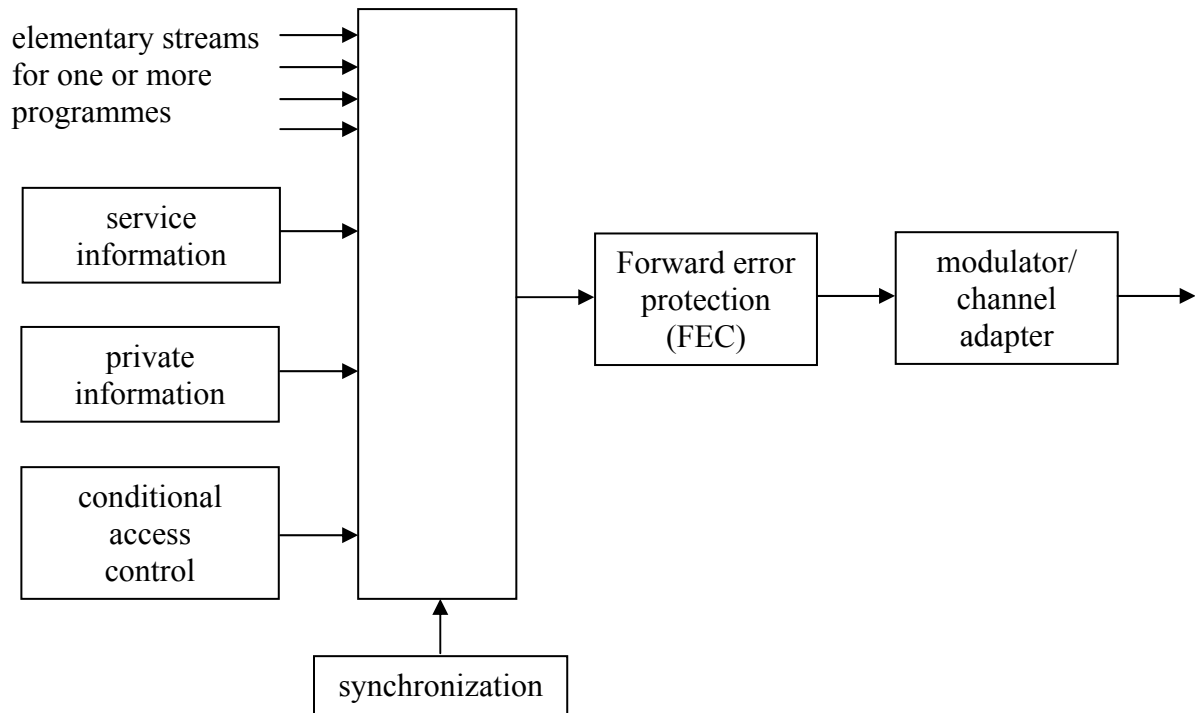
1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  4. \_\_\_\_\_
- 

## 6. What definition of the MPEG-2 systems layer is correct?

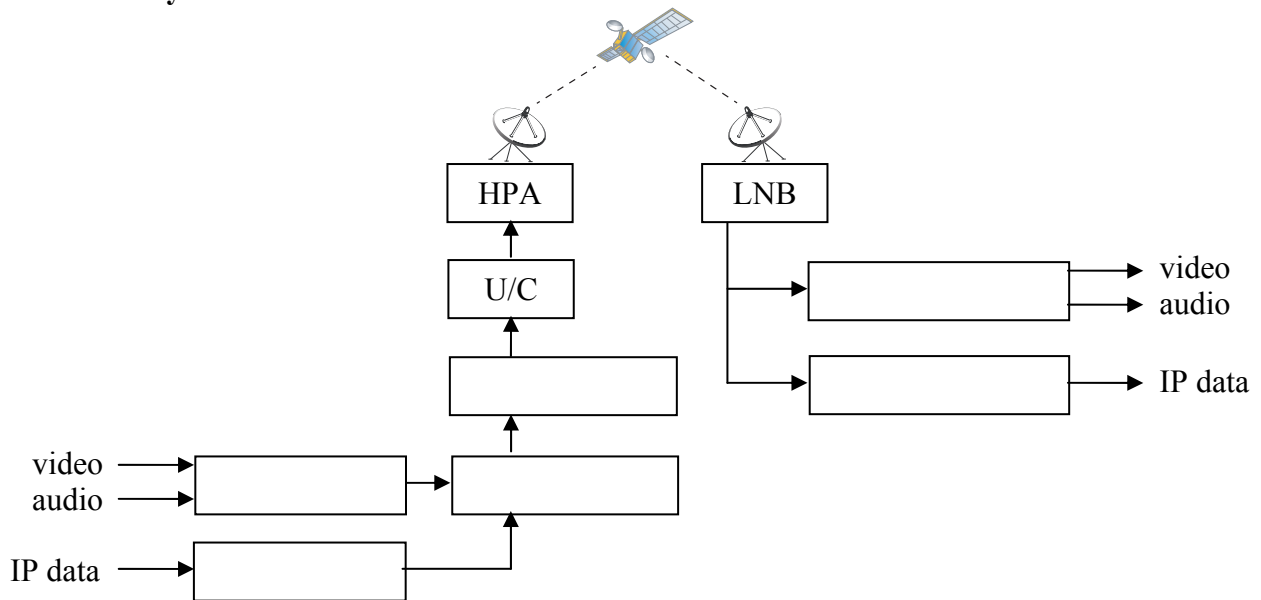
- MPEG-2 systems layer defines how various elementary streams representing one or multiple programmes are multiplexed together.
  - MPEG-2 systems layer defines how data streams representing multiple programmes are multiplexed together.
  - MPEG-2 systems layer defines how elementary streams representing one or multiple programmes are distributed.
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## 7. What does PES (*Packetized Elementary Stream*) represent?

8. Complete (fill up) name of empty box in the block diagram for multiplexing of packetized elementary streams!



9. Fill up the empty boxes (by titles below) to complete a simplified block scheme of the DVB-S system!



DVB-S Modulator

Multiplexer

MPEG encoder

IP Gateway

DVB-S Receiver

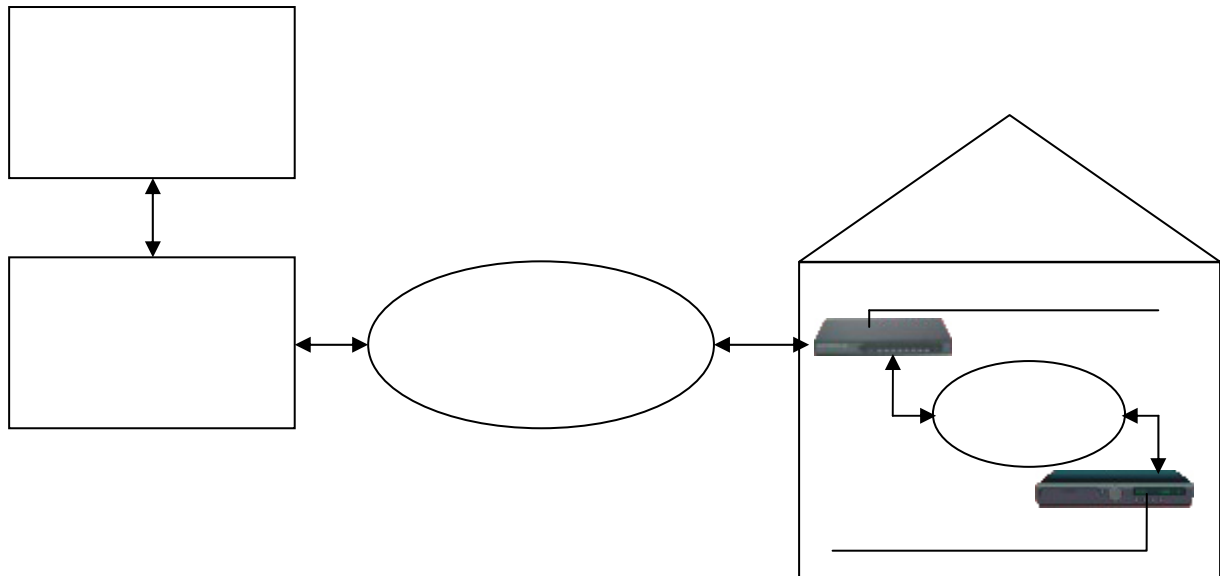
DVB-IP Receiver

© Courtesy: Jason C. Fisher a Tracey Saxby, Integration and Application Network, University of Maryland Center for Environmental Science (ian.umces.edu/imagelibrary/)



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**10. Complete a block scheme of the basic IPTV architecture!**



Content Provider

Service Provider

Internet (Broadband IP Network)

Home Network Gateway

Home Network

IPTV Set-top-box