DVB GSE

Replacing the MPEG-2 Transport Stream?

Alexander Adolf (Micronas; Chair DVB TM-GBS)

Digital Video Broadcasting

Replacing the MPEG-2 Transport Stream?

- What is GSE? Where did it come from?
- How does GSE relate to the Transport Stream?
- What is GSE's importance to DVB transmission standards going forward?
- What are the implications for broadcasters and CE manufacturers?

What is DVB-GSE?

Where did it come from?

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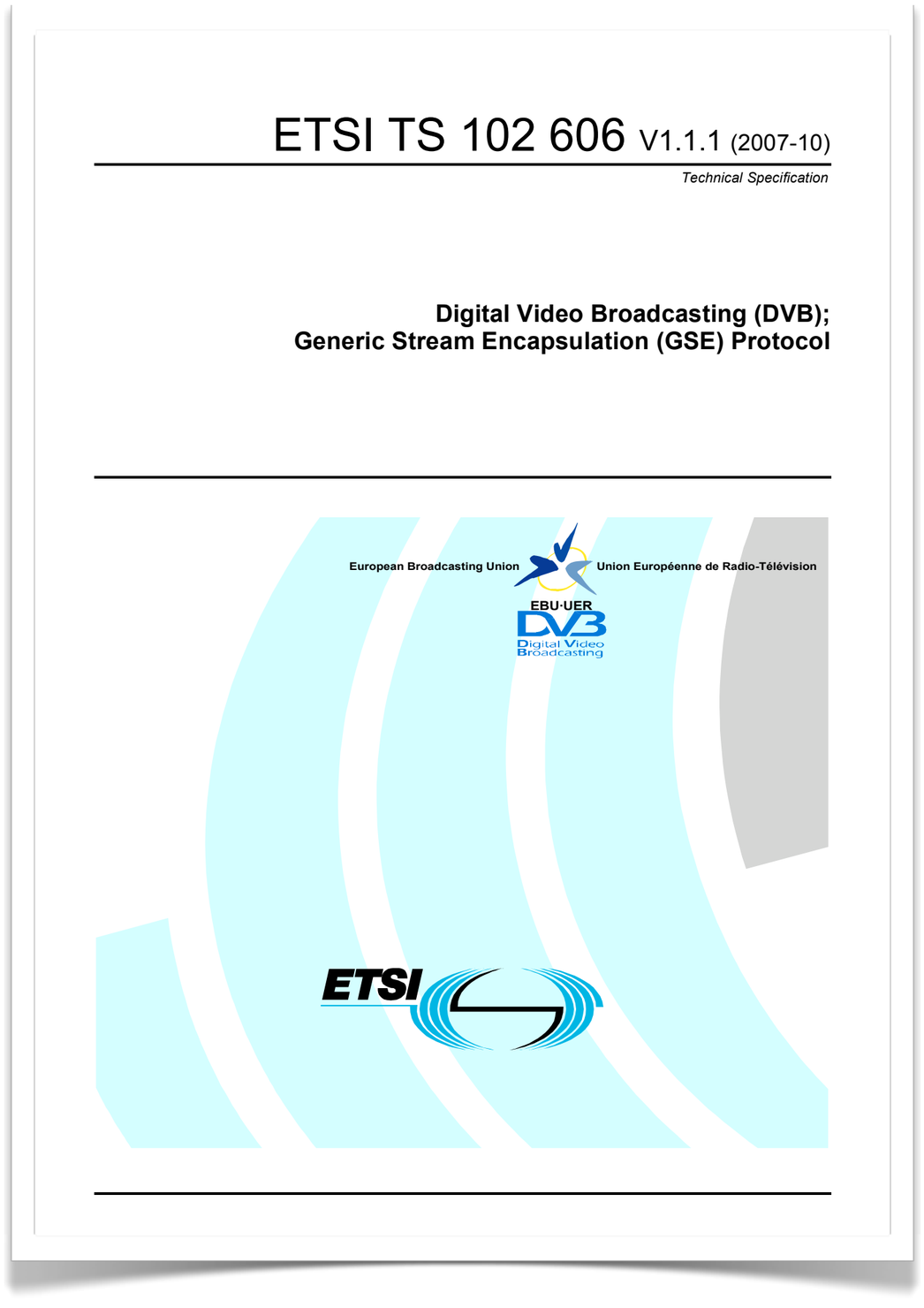
“GSE” Spelled Out


ETSI TS 102 606 V1.1.1 (2007-10)

Technical Specification

Digital Video Broadcasting (DVB);
Generic Stream Encapsulation (GSE) Protocol

European Broadcasting Union — Union Européenne de Radio-Télévision

EBU·UER

DVB Digital Video Broadcasting

ETSI

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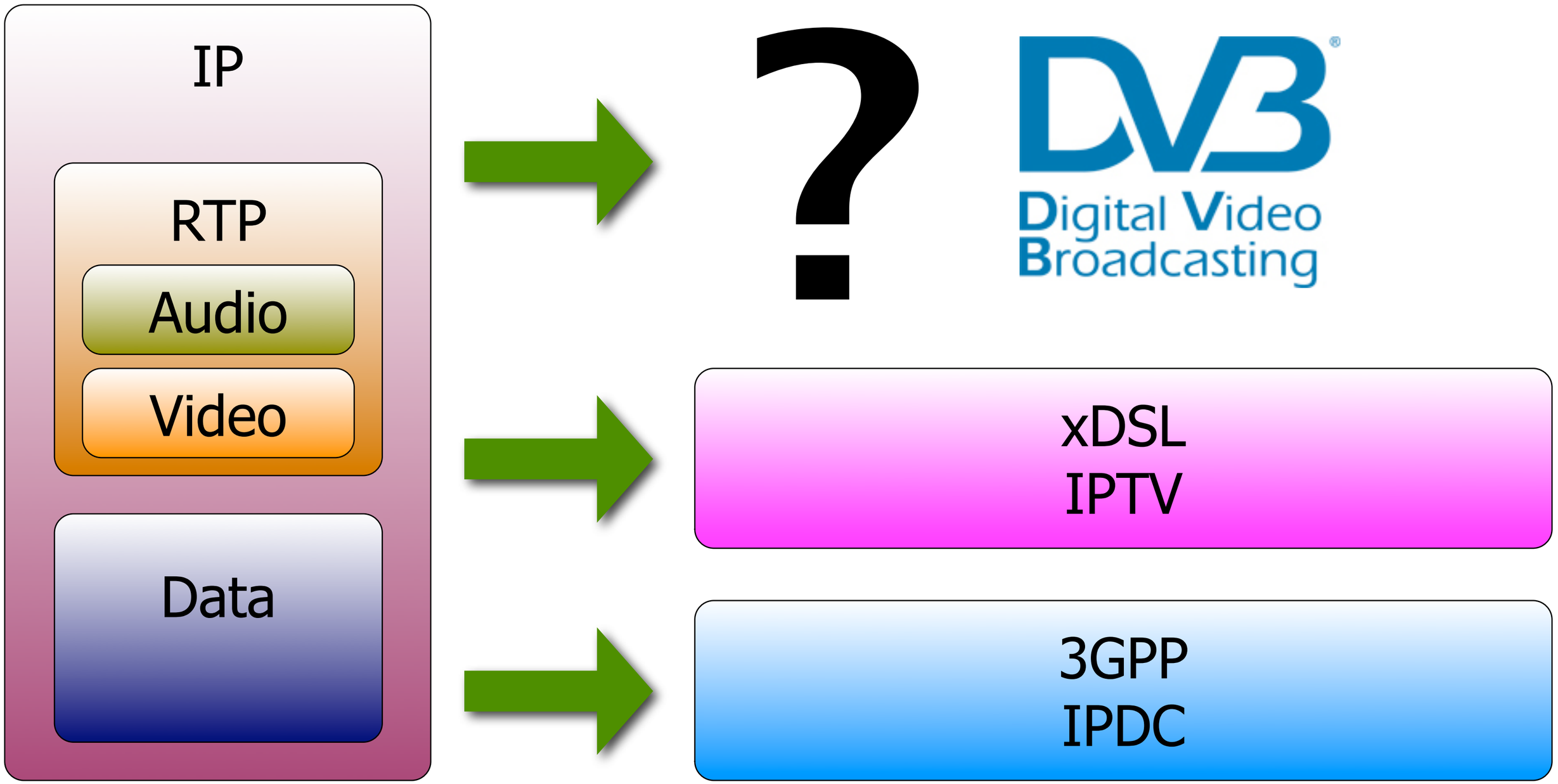
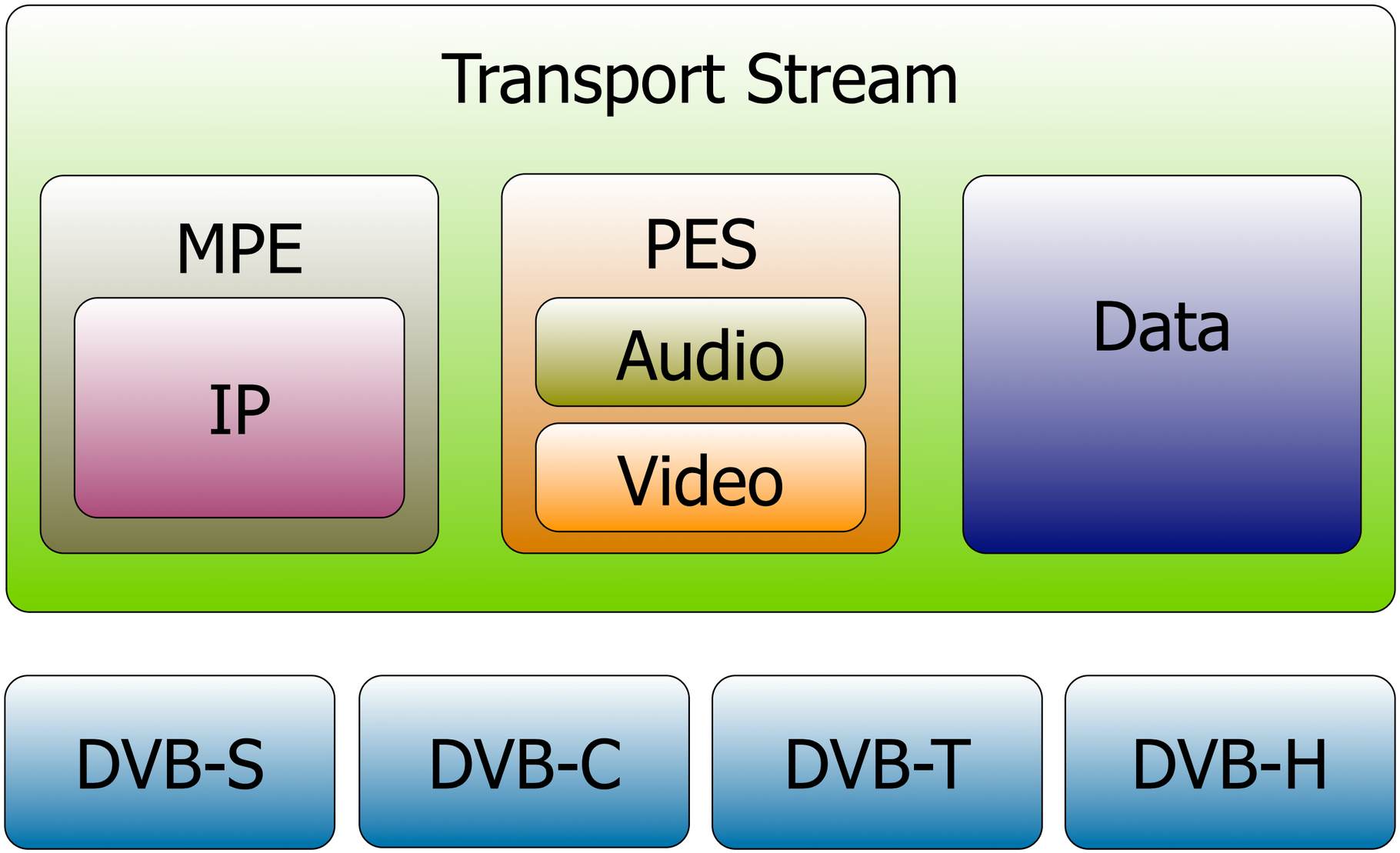
Generic **S**tream **E**ncapsulation

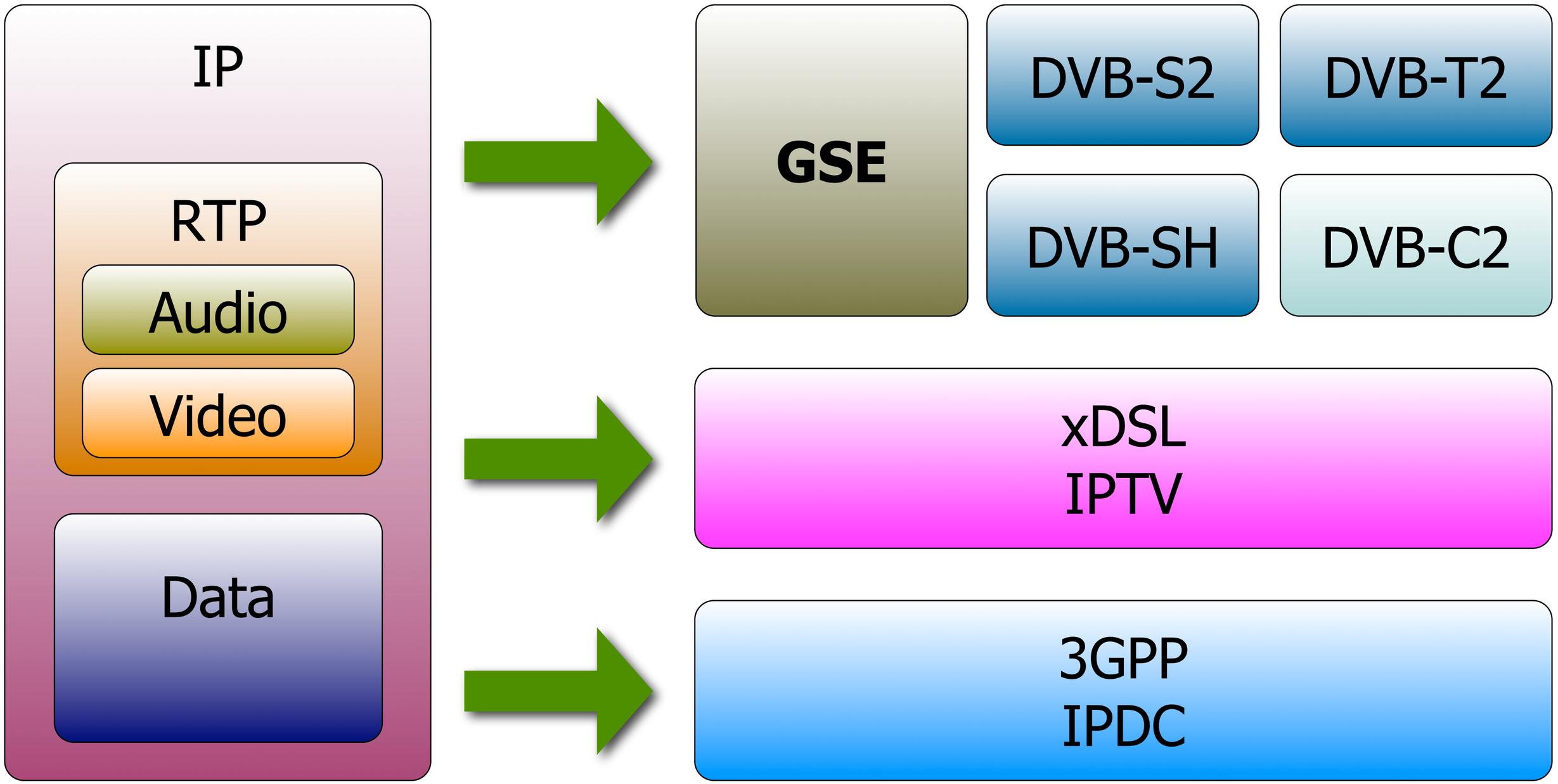
Motivation: IP is the Convergence Layer



1st Generation Bearers - IP Carriage, But Not “Native”



DVB-GSE Enables IP Natively on DVB, too



How does GSE relate to the Transport Stream?

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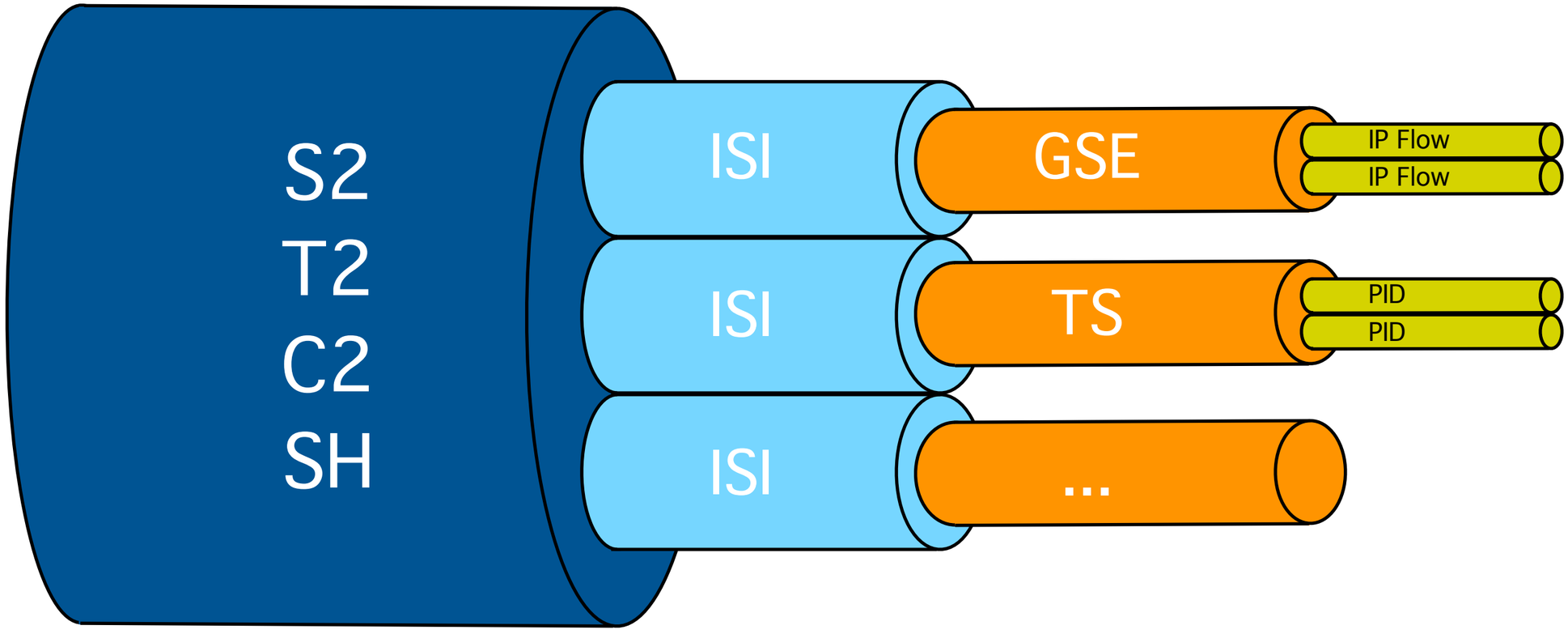
DVB-GSE and TS - Conceptually at the same level



Modulation Scheme

Input Streams

Stream Layer

Application Protocols

What is GSE's importance to DVB transmission standards going forward?

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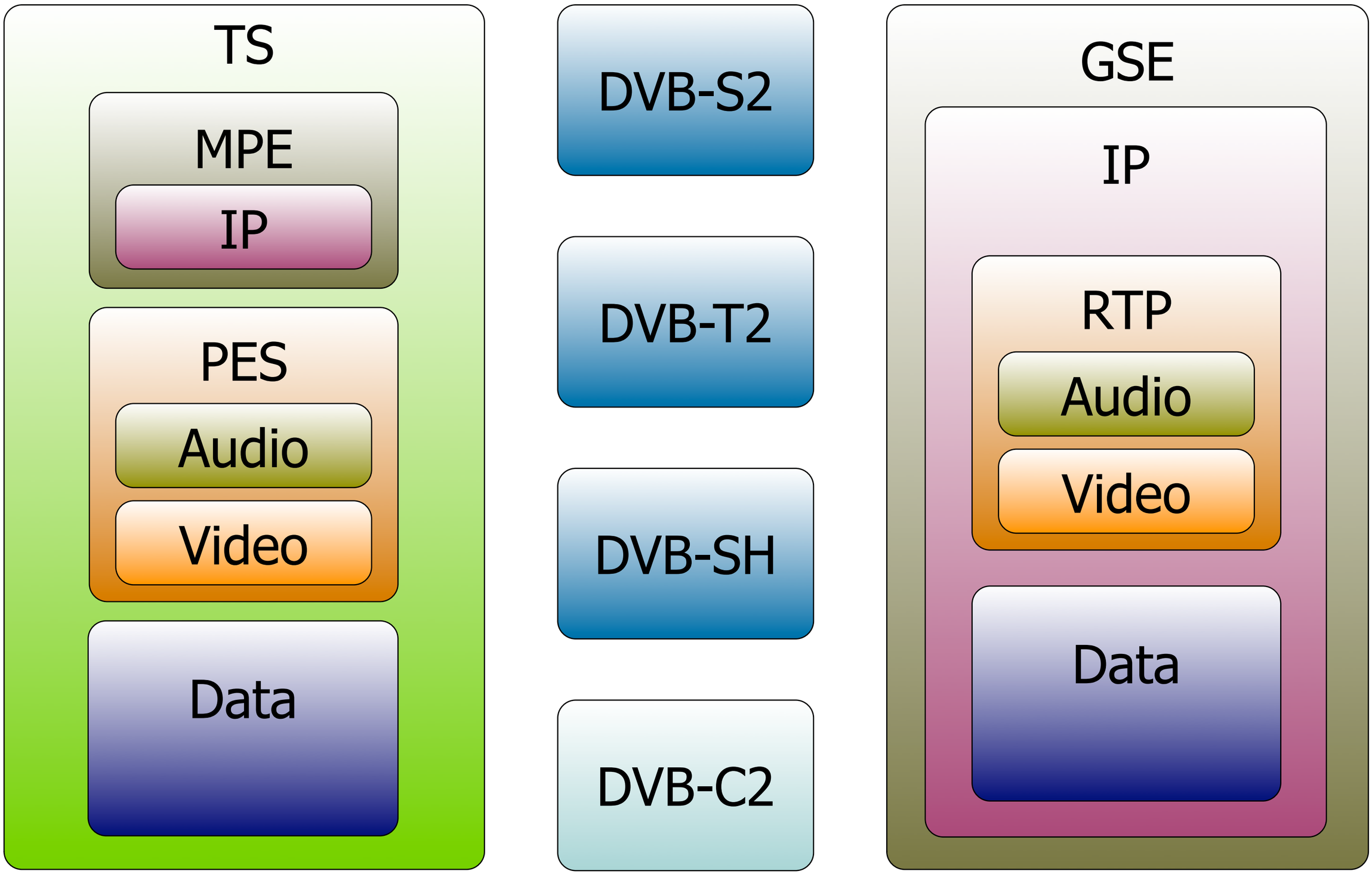
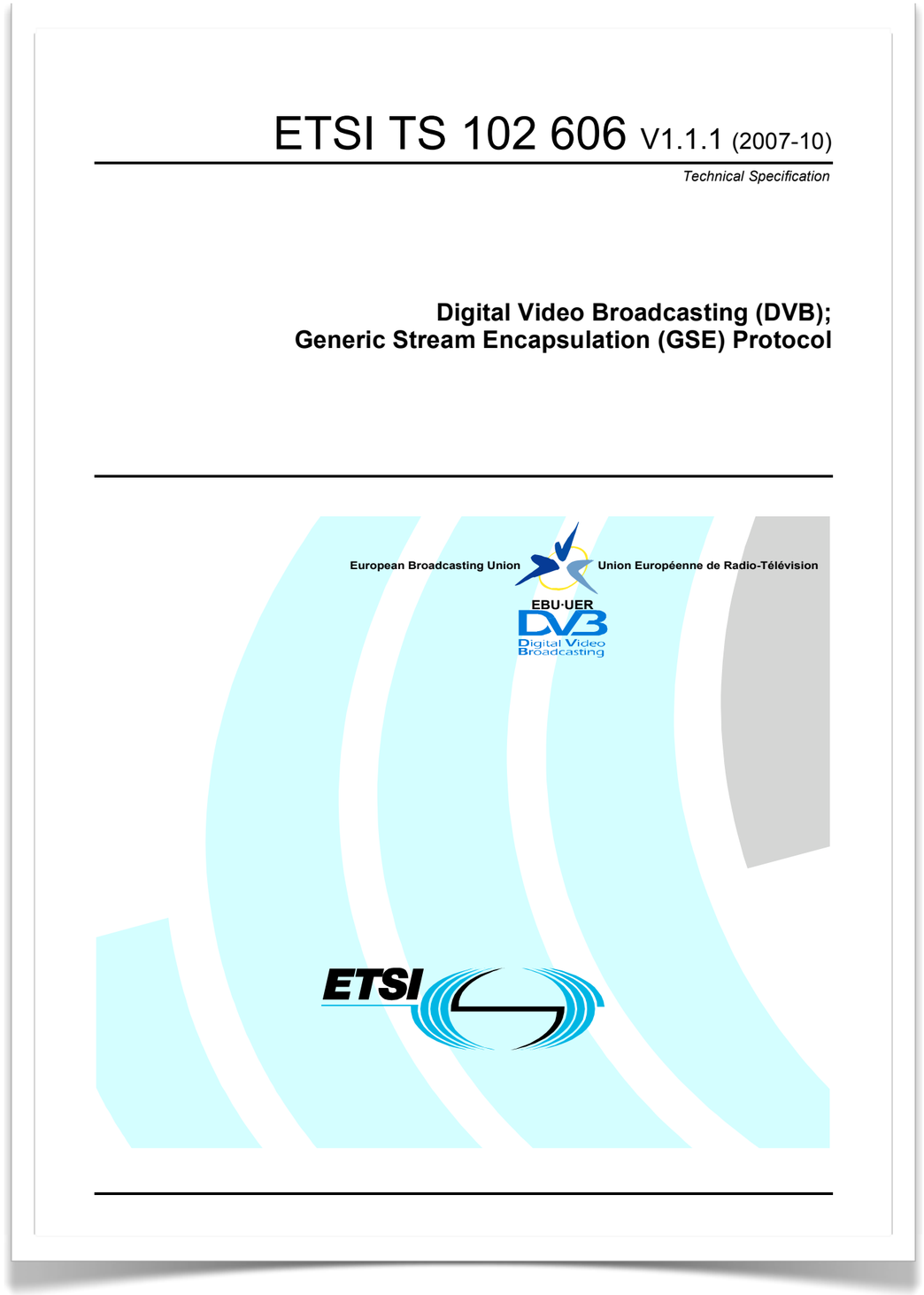
All 2nd Generation Bearers - Must Be "Multi Mode"



You Will Want a Solid Foundation...

Movie © Kaktus Film www.kaktusfilm.com

DVB's Solid Foundation for the 2nd Generation Bearers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DVB GSE

Generic Stream Encapsulation

- DVB-S2
- DVB-T2
- DVB-SH
- DVB-C2

What are the implications for broadcasters and CE manufacturers?

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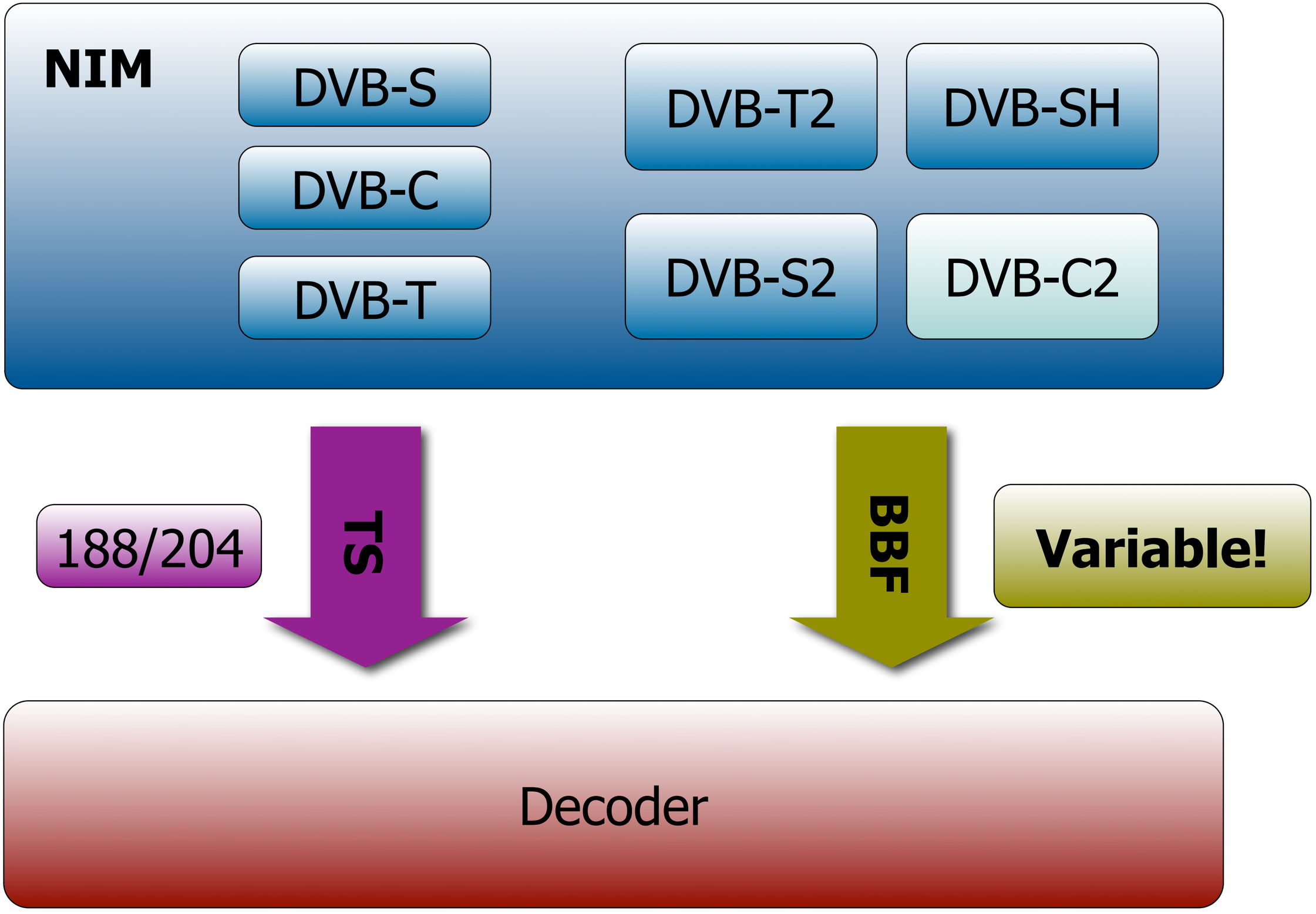
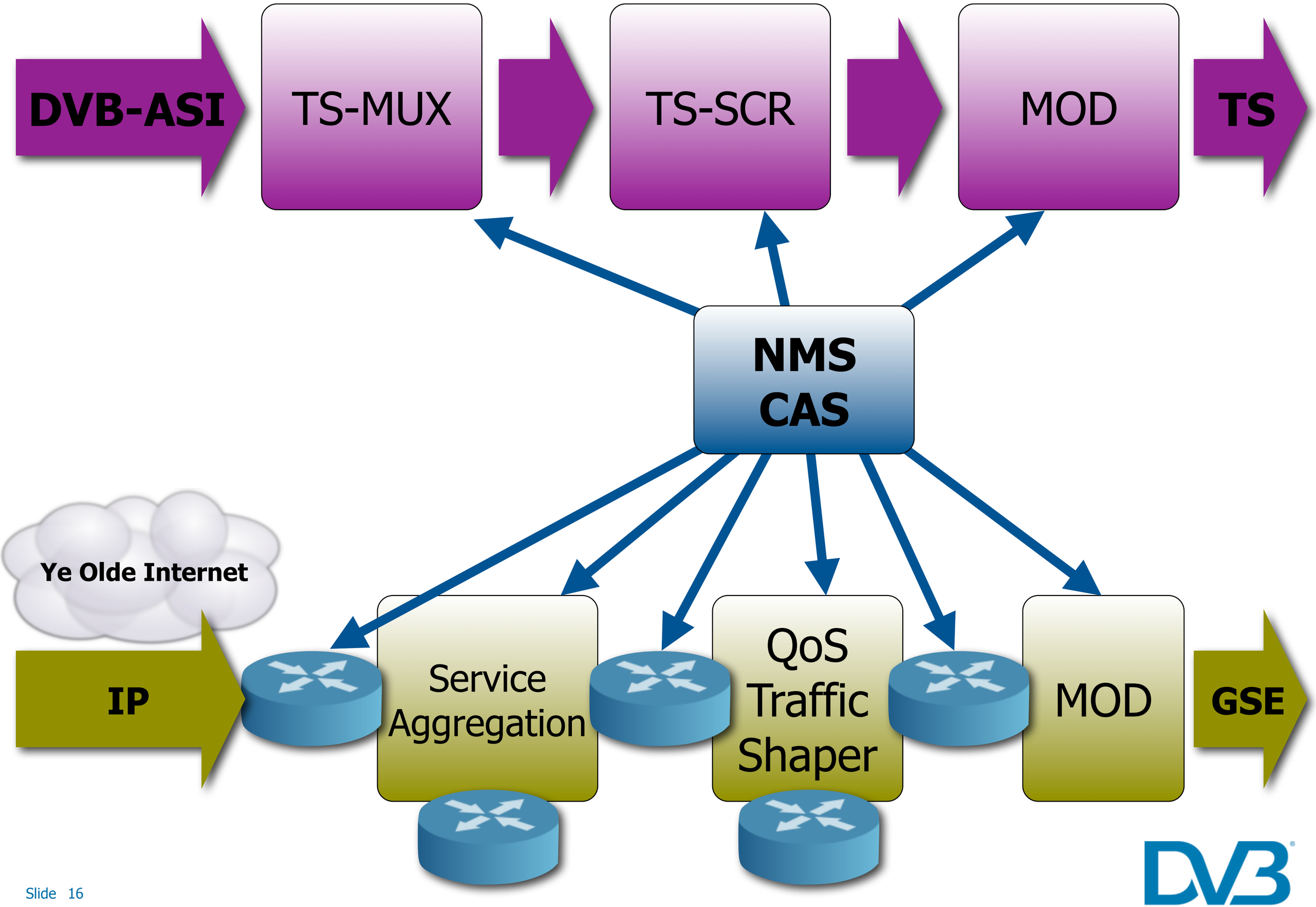
DVB-GSE for CE Manufacturers



DVB-GSE for Broadcasters



Wrap-Up

Wrap-Up

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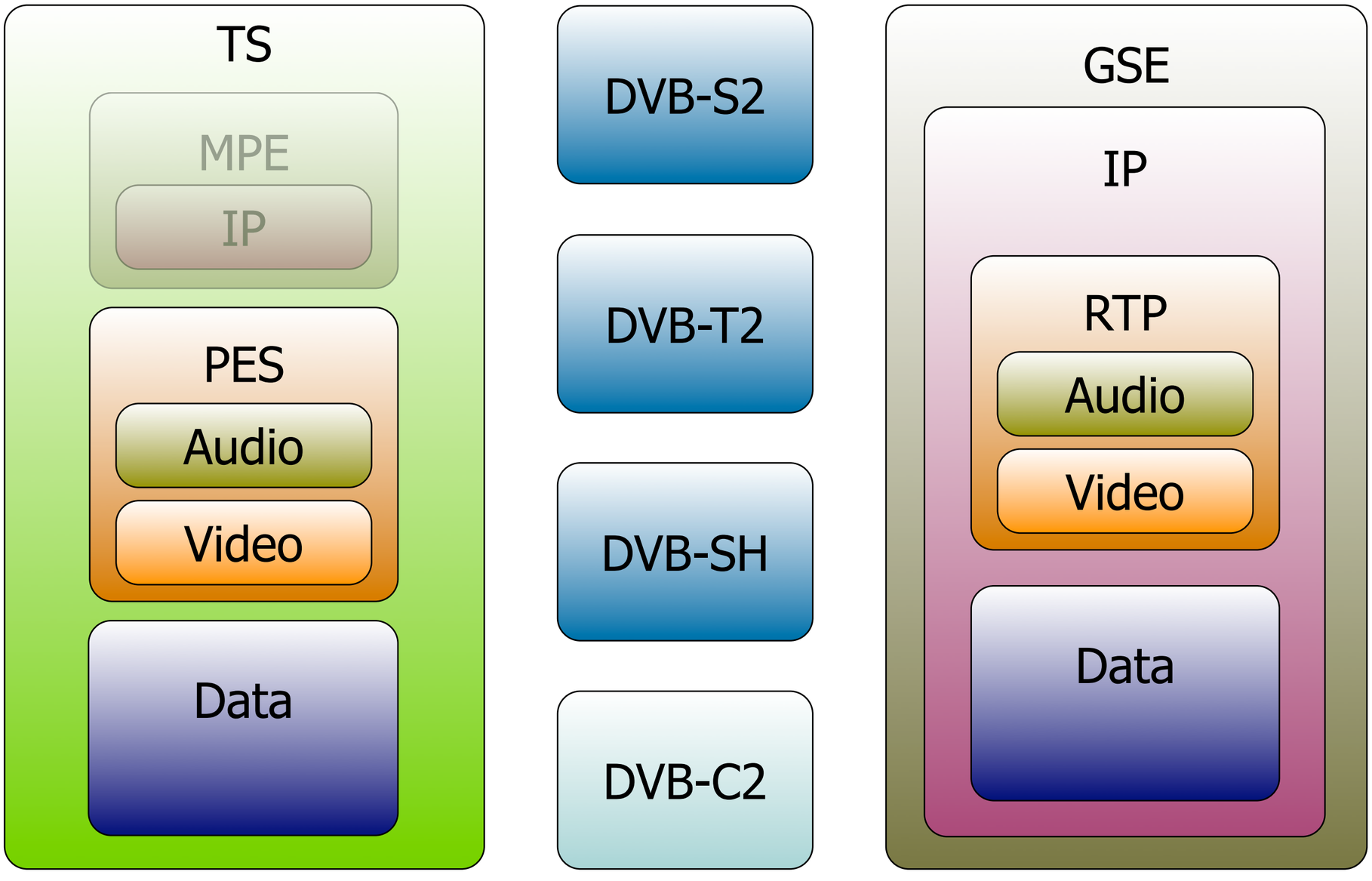
Complementing the MPEG-2 Transport Stream!



Thank you very much for your attention!

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