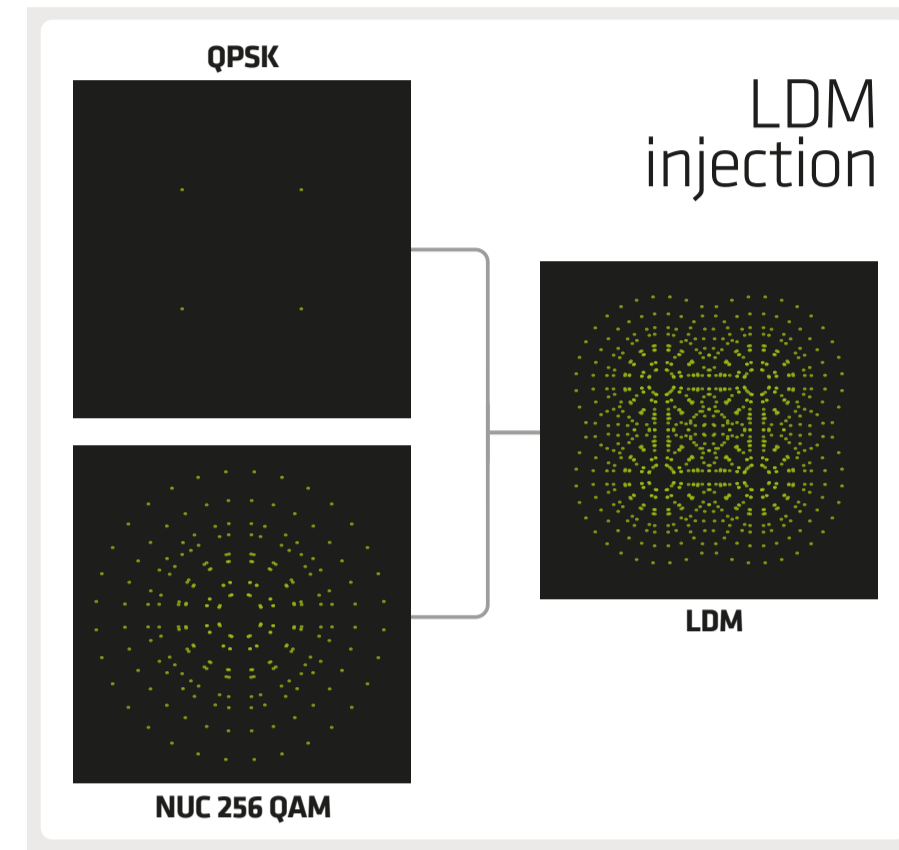


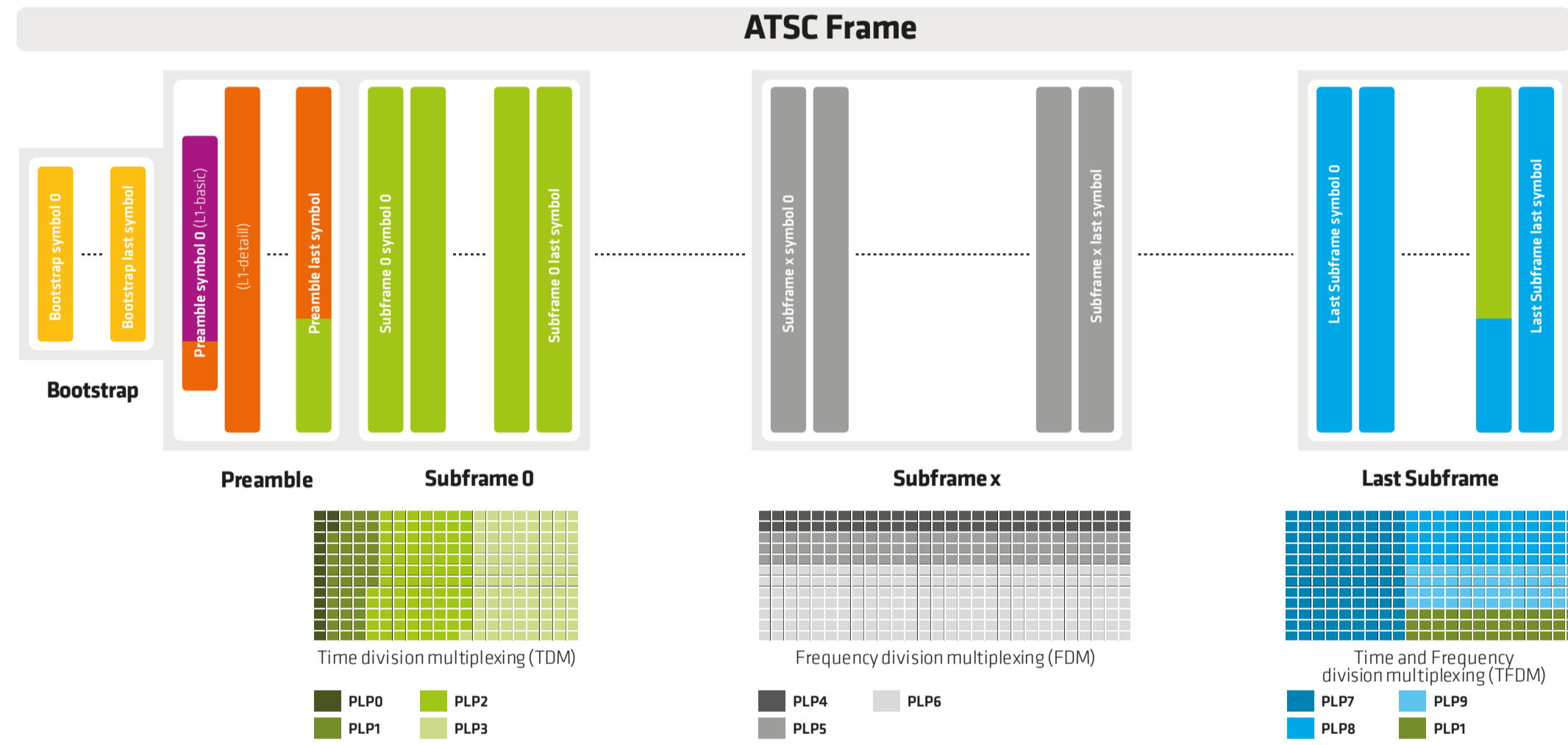
Air interface

Physical overview

FEC length	16200; 64800
FEC code	BCH; CRC + LDPC
Code Rate	2/15; 3/15; 4/15; 5/15; 6/15; 7/15; 8/15; 9/15; 10/15; 11/15; 12/15; 13/15
Constellation	QPSK ; NUC 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM
Transmission mode	SISO, MISO, MIMO, Channel bonding
Interleaving	Convolutional Time Interleaver; Hybrid Time Interleaver
FFT size	8K; 16K; 32K
Bitrate Max	SISO 8MHz 78.5Mbps; 2x2 MIMO 8Mhz 157Mbps
ATSC 3.0 frame duration	from 50ms to 5s
PLP number	from 1 up to 64 (min 4 in parallel for demod)
Versatile PLP mapping	TDM, FDM, TFD, LDM

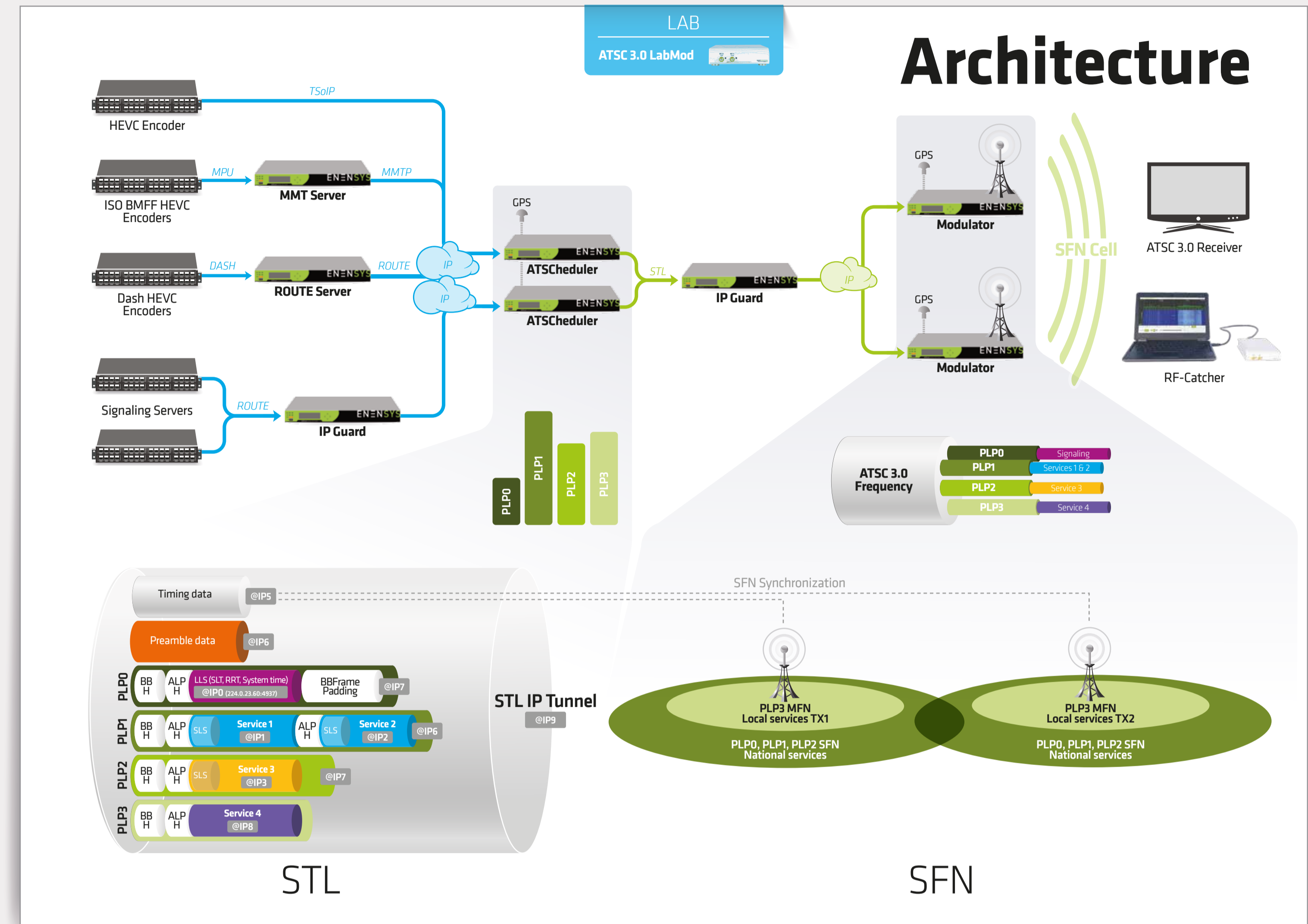
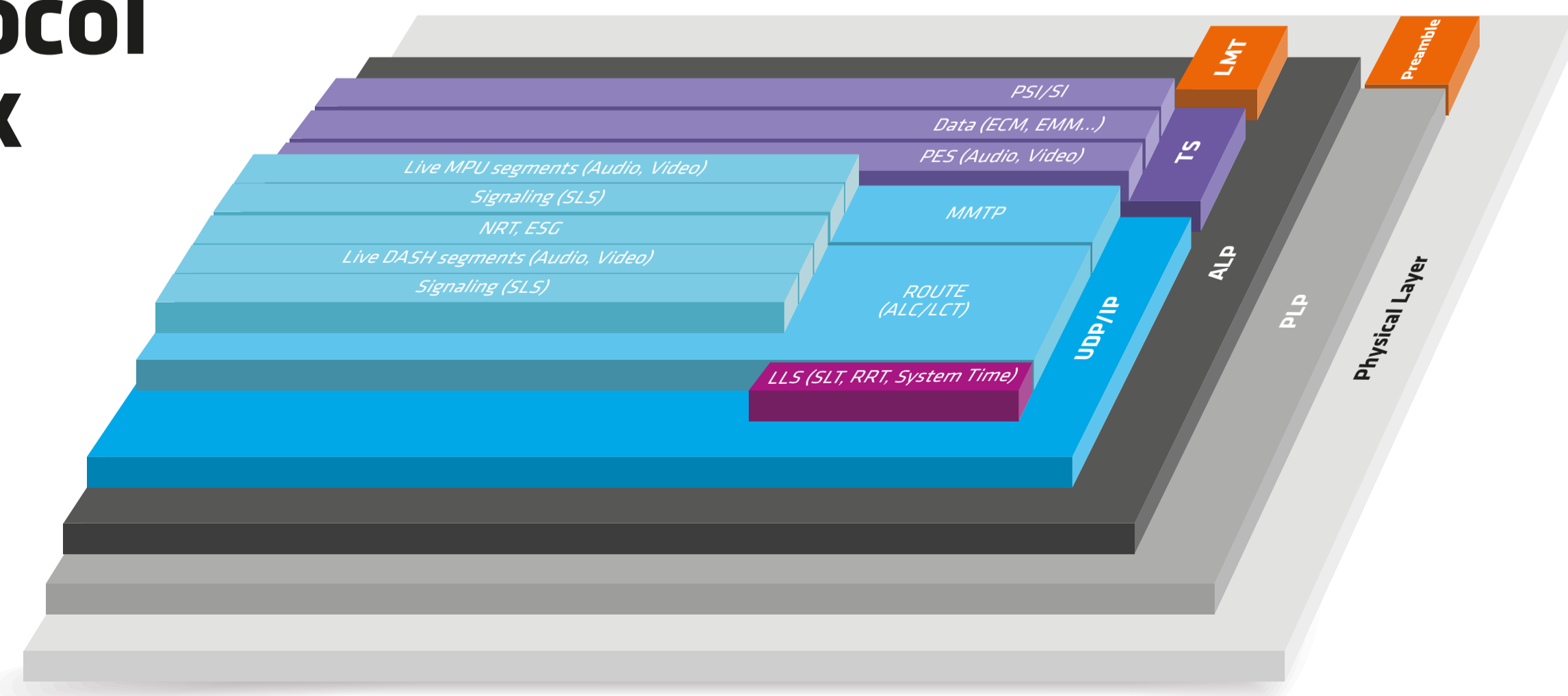


Framing



PLP Mapping

Protocol Stack



GLOSSARY

- ALP** ATSC Link layer Protocol
- BB** Base Band Frame
- DASH** Dynamic Adaptive Streaming over HTTP
- ISO BMFF** ISO Base Media File Format
- LDM** Layered Division Multiplexing
- LMT** Link Mapping Table
- LLS** Low Layer Signaling
- MMT** MPEG Media Transport
- MMTP** MPEG Media Transport Protocol
- MPU** Media Processing Unit
- NRT** Non Real Time
- NUC** Non-Uniform Constellation
- PLP** Physical Layer Pipe
- ROUTE** Real-Time Object Delivery over Unidirectional Transport
- RRT** Rating Region Table
- SLS** Service Layer Signaling
- SLT** Service List Table
- STL** Studio to Transmitter link
- TS** Transport Stream

Service Acquisition

