

ITU T.35

Brief overview of ITU T.35 message

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Overview of ITU T.35

- Defines the procedure for the allocation of ITU-T code for non-standard facilities
 - Recommendation T.35 spec
 - Unique code to be allocated to each provider
- Structure of the code consists of three parts
 - Country code
 - Terminal provider code
 - Terminal provider oriented code (*in case of terminal specific non-standard facilities*)

Country code

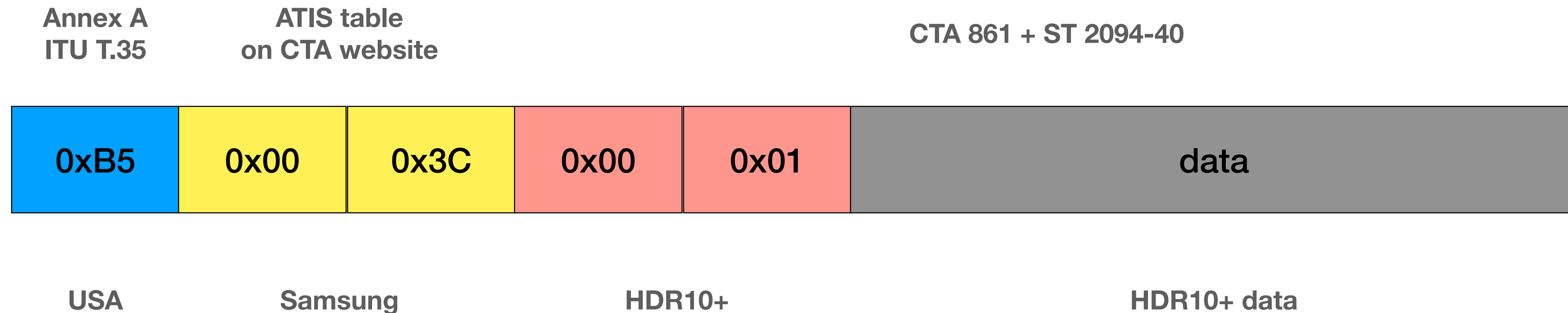
- Director of Telecommunication Standardization Bureau (TSB) is in charge
 - New requests go directly to Director of TSB
- 1 byte to signal the country (Annex A)
 - 197 values already in use (since 1990)
 - 57 available
 - 0xFF is reserved as an extension byte
- 1 optional extra byte if first byte was 0xFF (Annex B)
 - All codes except 0xFF are available

Terminal provider code

- An Administration or national body (NB) designated by an Administration is in charge
 - In case of NB, Address and Name of NB are sent to Director of TSB
- e.g. Alliance for Telecommunications Industry Solutions (ATIS) is in charge of terminal provider code assignment in North America
 - List of US and Canadian terminal provider codes is available here.
 - Terminal provider code for US and Canada are always 2 bytes.

Terminal provider oriented code

- Manufacturers with allocated terminal provider code by an Administration are in charge
- Example T.35 with HDR10+ metadata:



Few examples for carriage of T.35

5.8.2. Metadata ITUT T35 syntax [↗](#)

metadata_itut_t35() {	Type
itu_t_t35_country_code	f(8)
if (itu_t_t35_country_code == 0xFF) {	
itu_t_t35_country_code_extension_byte	f(8)
}	
itu_t_t35_payload_bytes	
}	

- Metadata OBU
- From AV1 spec

D.2.6 User data registered by Rec. ITU-T T.35 SEI message syntax

user_data_registered_itu_t_t35(payloadSize) {	Descriptor
itu_t_t35_country_code	b(8)
if(itu_t_t35_country_code != 0xFF)	
i = 1	
else {	
itu_t_t35_country_code_extension_byte	b(8)
i = 2	
}	
do {	
itu_t_t35_payload_byte	b(8)
i++	
} while(i < payloadSize)	
}	

- User data registered ITU T.35 SEI
- from HEVC spec