Comment 205: Figure 201-7 and Related Comment 46: Figure 201-11
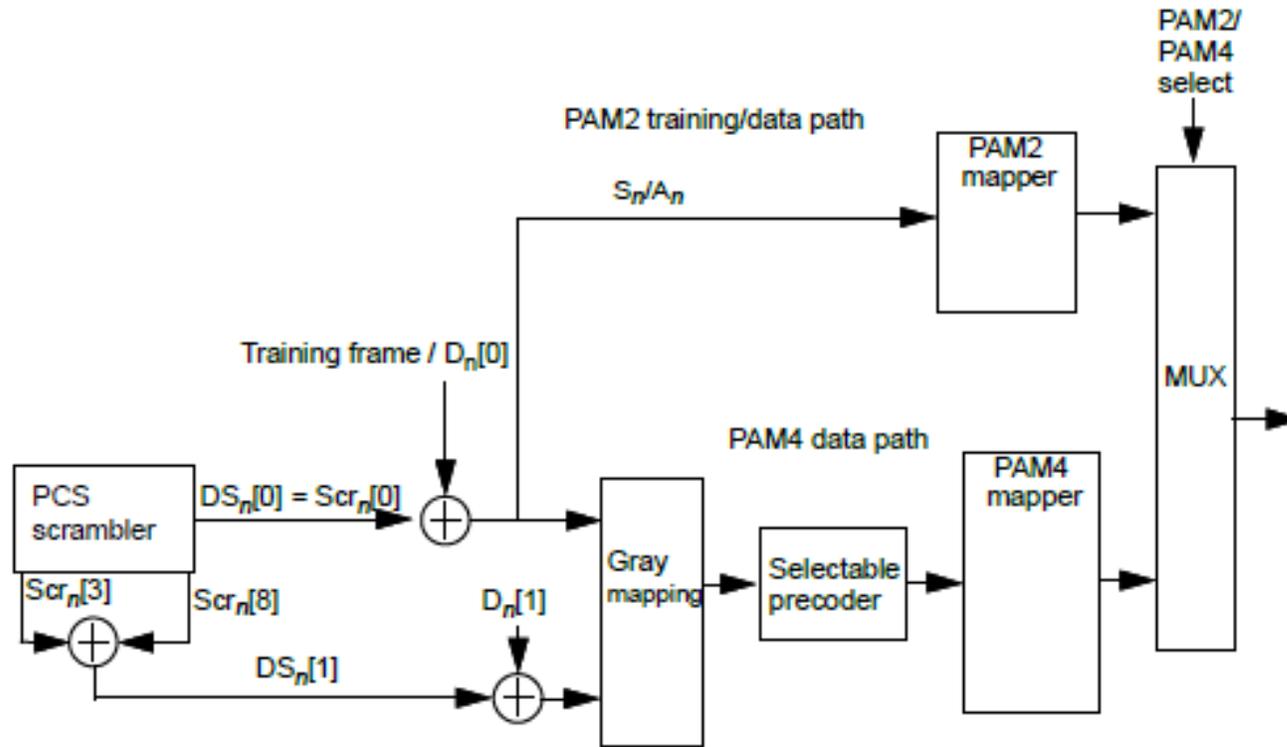
G. Zimmerman / CME Consulting

2/24/2026

Problem: Figure 201-7

The fact that Clause 201 has both PAM2 and PAM4 PHYs creates some inconsistencies reusing Clause 149 figures for 2.5G/5G PHY Types

Existing Figure 201-7 has a number of issues.

- It mixes 2.5G/5G and 10G PCS features, which are different (2.5G/5G does not have the PAM4 path at all...),
- It is missing interfaces where signals come from
- The output is not labeled to reference other diagrams
- The Figure claims to be a 'block diagram' of the PCS Transmit, but is really only a subset of the PCS Transmit, and omits the RS-FEC encoder, and the PCS Transmit process which generates the 65B blocks from XGMII
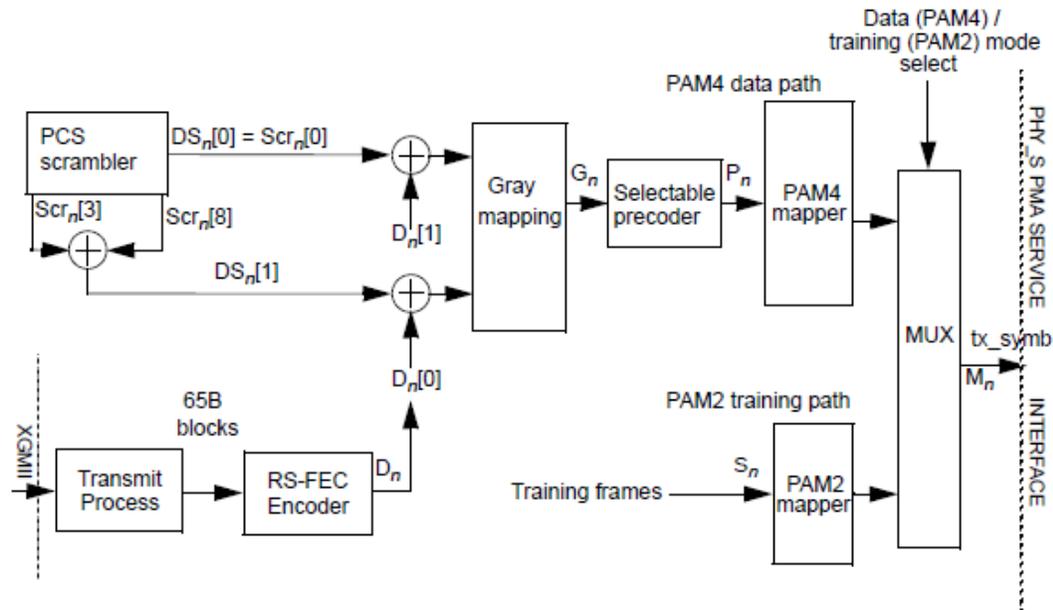
Existing Diagram

NOTE 1—The S_n are from the training frame, and the A_n are from the 2.5G and 5G HS_PATH when the PAM2 mapper is used.

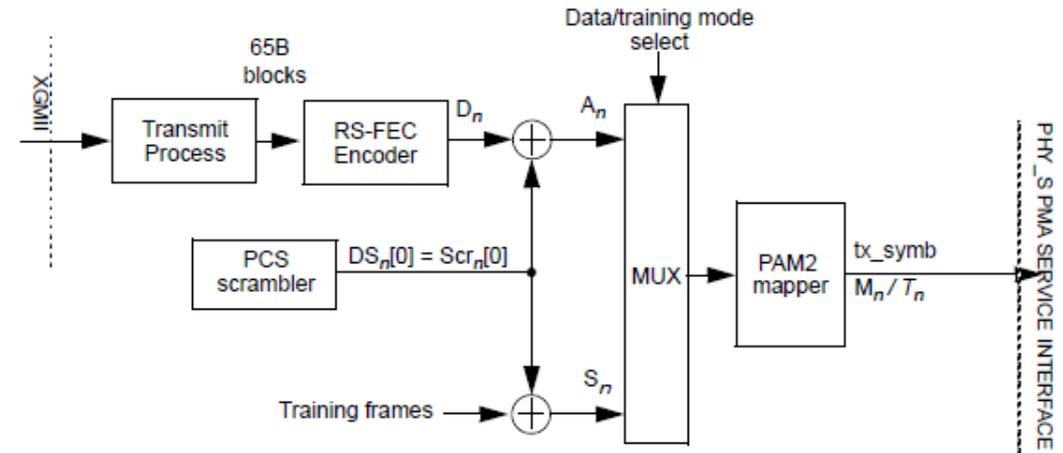**Figure 201-7—HS_TX PCS Transmit function block diagram**

Proposed New Figures

The block diagram of HS_TX PCS Transmit functions is shown in Figure 201–7a and Figure 201–7b, replacing Figure 149-5. .

NOTE —The S_n are from the training frame, and the MUX selects the PAM2 path while in PAM2 training states.

Figure 201–7a—10Gbps HS_TX PCS Transmit function block diagram

NOTE 1 —The S_n are from the training frame, and the A_n are for the 2.5G and 5G HS_PATH.
NOTE 2 — The output of the PAM2 mapper is M_n in data mode and T_n in training mode.

Figure 201–7b—2.5Gbps and 5 Gbps HS_TX PCS Transmit function block diagram

Related comment: Comment 46

ID	Commenter	Affiliation	Subclause	Page	Line	Comment	SuggestedRemedy
46	Jonsson, Ragnar	Infineon	201.4.2.3	97	32	The structure of the figure is different from the corresponding figure for HS_PATH in Figure 201-7	Change the handling of the "Training frame" in the figure to be consistent with how it is done in Figure 201-7

Proposed

Existing: Draft 0b

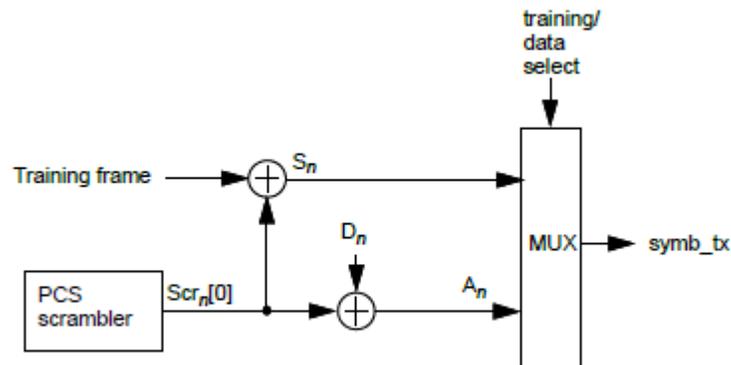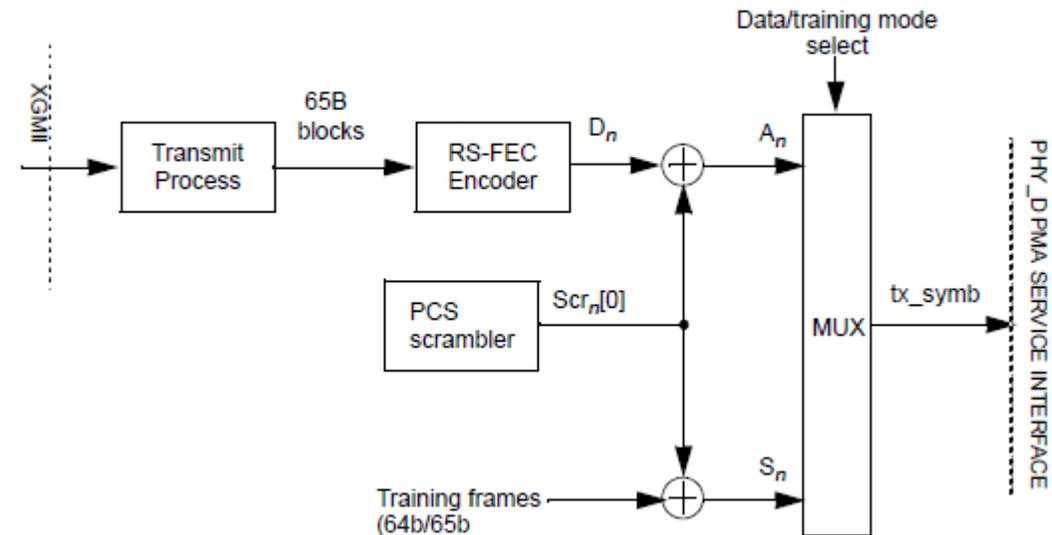A block diagram of the low speed path PCS Transmit functions is shown in Figure 201–11.

Figure 201–11—PCS Transmit function block diagram for low speed path

G. Zimmerman: Comment 205: Figure 201-8

Questions?
Thank you.

G. Zimmerman: Comment 205: Figure 201-8