

July 23, 2003

To: Dr. Shaohua Yu
ITU-T SG 17 Q7

Subject: Request for SAPI for P802.17.

Dear Dr. Yu,

IEEE 802.17 appreciates the cooperation between our groups on Draft New Recommendation X.msr-rpr and P802.17. As you are aware, our agreement has resulted in the addition of X.85/Y.1321 (IP over SDH using LAPS) as a SONET/SDH Physical Layer and Reconciliation layer within the RPR specification.

The purpose of this liaison is to request a valid SAPI for use by RPR. We have included an informally proposed value of 0xfe03 within our specification. Please indicate to us the official value we can use.

For your information, the current text of the sub-section within the RPR specification is as follows:

7.4.2.3 LAPS framing adaptation sublayer

RPR frames may be mapped into the SONET/SDH layer using link access procedure-SDH (LAPS) framing, as specified by ITU-T X.85/Y.1321. LAPS performs byte-stuffed framing, like byte-synchronous HDLC-like framing, except that additional physical frame fields are defined.

LAPS framing for RPR shall be performed in accordance with ITU-T X.85/Y.1321. A diagram of the LAPS framing structure is shown in Figure 7.3.

Flag	Address	Control	SAPI	rprFrame	FCS	Flag	Additional interframe fill or next frame
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Figure 7.3—RPR in LAPS framing structure

The *Flag* sequence and *Control* escape bytes are specified in Table 7.3 (same as byte-synchronous HDLC-like framing). The address, control, service access point identifier (SAPI), and FCS fields have the values specified in Table 7.4.

Table 7.4 - LAPS frame field values for RPR

Field name	Value
address	04 ₁₆
control	03 ₁₆
SAPI	FE03 ₁₆
FCS	Calculated from beginning of address to end of RPR frame in accordance with ITU-TX.85/Y.1321.

Editors' Notes: *To be removed prior to final publication.*

A SAPI value of FE03₁₆ is proposed, but is subject to approval by ITU-T SG-17.

We intend to remove the editor's note upon confirmation of the SAPI value.

Thank you.

Sincerely,
Michael Takefman,
Chair IEEE 802.17 Resilient Packet Ring Working Group