INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

G.781

Corrigendum 1

(06/2004)

SERIES G: TRANSMISSION SYSTEMS AND MEDIA, DIGITAL SYSTEMS AND NETWORKS

Digital terminal equipments – Principal characteristics of multiplexing equipment for the synchronous digital hierarchy

Synchronization layer functions

Corrigendum 1

ITU-T Recommendation G.781 (1999) – Corrigendum 1

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ITU-T Recommendation G.781

Synchronization layer functions

Corrigendum 1

Summary

This corrigendum replaces the current clause 5.6/G.781.

Source

Corrigendum 1 to ITU-T Recommendation G.781 (1999) was approved on 13 June 2004 by ITU-T Study Group 15 (2001-2004) under the ITU-T Recommendation A.8 procedure.

FOREWORD

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The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

Compliance with this Recommendation is voluntary. However, the Recommendation may contain certain mandatory provisions (to ensure e.g. interoperability or applicability) and compliance with the Recommendation is achieved when all of these mandatory provisions are met. The words "shall" or some other obligatory language such as "must" and the negative equivalents are used to express requirements. The use of such words does not suggest that compliance with the Recommendation is required of any party.

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As of the date of approval of this Recommendation, ITU had received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

ITU-T Recommendation G.781

Synchronization layer functions

Corrigendum 1

1) Clause 5.6

Replace clause 5.6 with the following text and figure:

5.6 Selection process

The process of selecting a synchronization source from the set of physical ports is performed in three steps plus one for use of the station clock output:

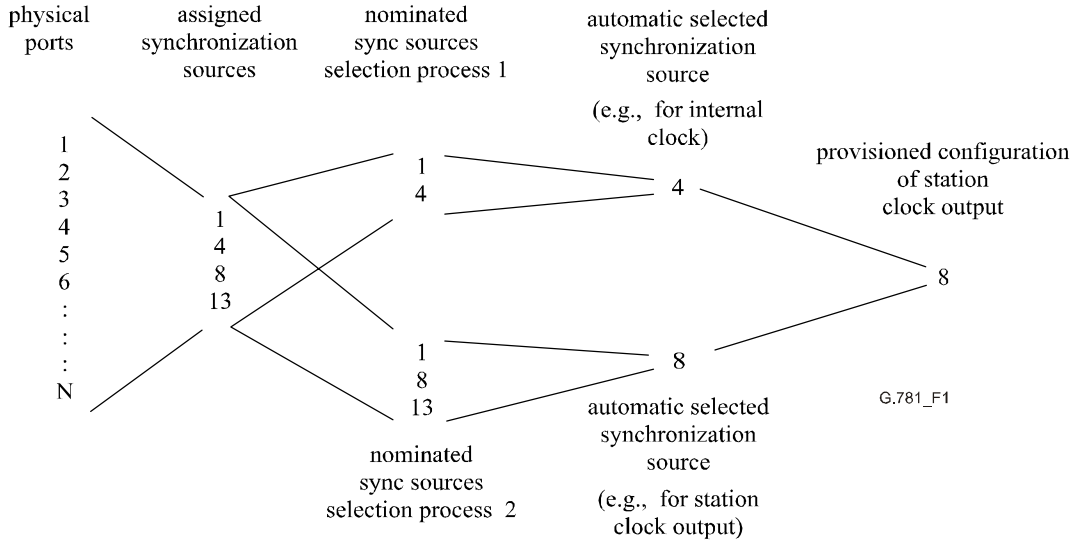

Figure 6/G.781 – Visualization of the synchronization source selection process(es)

1) *Assignment of a physical port to be a synchronization source*: Select a (limited) set of interface signals (from the total set of interfaces) to act as synchronization sources.

   This is performed in the SD_C function by means of adding matrix connections between a group of inputs (connected to the server layer) and outputs (connected to the SD_TT_Sk functions).

2) *Nomination of a synchronization source for an automatic selection process*: Select a (sub)set of the synchronization sources to contribute to a selection process.

   This is performed in the NS_C function by means of assigning a priority to the synchronization source (see 5.10).

3) *Automatic Selection Process*: Selects the "best" synchronization source of the set from nominated sources according to the selection algorithm (see 5.12).

The next step is required only for use of the station clock output:

4) *Configuration of the station clock output selector*: The selector is normally configured to allow the selected line synchronization source to be outputted to the SSU via the station clock output. An operator command allows the selection of the internal clock to be outputted, if required. This selection is only dependant on the operator command and not on the status of the selected signal.

NOTE – The specifications in this Recommendation allow a selection to be made between any set of synchronization interface signals input to a network element, independent of the actual synchronization network architecture deployed in the network. It is the network operator's responsibility to ensure that timing loops are not created.

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