International Telecommunication Union

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

G.806
Corrigendum 3
(08/2017)

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

Digital networks – General aspects

Characteristics of transport equipment – Description methodology and generic functionality

Corrigendum 3

Recommendation ITU-T G.806 (2012) – Corrigendum 3

Recommendation ITU-T G.806

Characteristics of transport equipment – Description methodology and generic functionality

Corrigendum 3

Summary

Corrigendum 3 to Recommendation ITU-T G.806 updates:

–   Table 7-1 to correct the default values for MI_DEGTHR and MI_DEGM.

–   Clause 5.6.3 and Table 7-1 for the use of MI_Active.

History

Edition	Recommendation	Approval	Study Group	Unique ID[*]
1.0	ITU-T G.806	2000-10-06	15	11.1002/1000/5176
1.1	ITU-T G.806 (2000) Amd. 1	2003-03-16	15	11.1002/1000/6267
2.0	ITU-T G.806	2004-02-06	15	11.1002/1000/7062
2.1	ITU-T G.806 (2004) Amd. 1	2004-06-13	15	11.1002/1000/7334
2.2	ITU-T G.806 (2004) Cor. 1	2004-08-22	15	11.1002/1000/7333
2.3	ITU-T G.806 (2004) Cor. 2	2005-01-13	15	11.1002/1000/7481
3.0	ITU-T G.806	2006-03-29	15	11.1002/1000/8760
3.1	ITU-T G.806 (2006) Amd. 1	2008-11-22	15	11.1002/1000/9373
4.0	ITU-T G.806	2009-01-13	15	11.1002/1000/9649
4.1	ITU-T G.806 (2009) Amd. 1	2011-06-22	15	11.1002/1000/11119
5.0	ITU-T G.806	2012-02-13	15	11.1002/1000/11490
5.1	ITU-T G.806 (2012) Cor. 1	2012-10-29	15	11.1002/1000/11780
5.2	ITU-T G.806 (2012) Cor. 2	2016-04-13	15	11.1002/1000/12791
5.3	ITU-T G.806 (2012) Cor. 3	2017-08-13	15	11.1002/1000/13300

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[*]   To access the Recommendation, type the URL http://handle.itu.int/ in the address field of your web browser, followed by the Recommendation's unique ID. For example, http://handle.itu.int/11.1002/1000/11830-en.

FOREWORD

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Recommendation ITU-T G.806

Characteristics of transport equipment – Description methodology and generic functionality

Corrigendum 3

1)   Scope of Corrigendum 3

Corrigendum 3 to Recommendation ITU-T G.806 updates Table 7-1 to correct the default values for MI_DEGTHR and MI_DEGM and clause 5.6.3 and Table 7-1 for the use of MI_Active.

2)   Clause 5.6.3, Adaptation function

Update the paragraph for selection (i.e., MI_Active) as indicated:

In the case where multiple adaptation functions are connected to the same AP and accessing the same time slots (bits/bytes), a **selection** process controls the actual access to the AP. In the atomic functions, this is modelled via the activation/deactivation signal (MI_Active). In the case where only one adaptation function is present, it is selected. Control is not required. Examples are STM-N multiplex section to Sn layer adaptation in [ITU-T G.783] and P0G32 to P0 layer adaptation function in [ITU-T G.705].

3)   Clause 7, Information flow (XXX_MI) across the XXX_MP reference points

Update Table 7-1 as indicated:

Table 7-1 − Generic command, configuration, provisioning and reporting information flow over the XXX_MP reference points

Management point	Process within atomic function	Input ("Set")	Output ("Get")
TT_So_MP	Trace identifier	Transmitted trail trace identifier (MI_TxTI) value	
TT_Sk_MP	Termination point/port mode	Termination point mode control (MI_TPmode: MON, NMON) Port mode control (MI_Portmode: MON, (AUTO), NMON)	
	Continuity supervision		Signal loss fault cause (MI_cLOS, MI_cUNEQ, MI_cLTC)
	Connectivity supervision	Expected trail trace identifier (MI_ExTI) value Misconnected traffic defect detection control (MI_TIMdis: true, false) Enable/disable AIS insertion on dTIM detection (MI_TIMAISdis: true, false)	Accepted (received) trail trace identifier value (MI_AcTI) Misconnected traffic fault cause (MI_cTIM)

Table 7-1 – Generic command, configuration, provisioning and reporting information flow over the XXX_MP reference points

Management point	Process within atomic function	Input ("Set")	Output ("Get")
	Signal quality supervision	Poisson-based excessive defect threshold selection (MI_EXC_X: 10^{-3}, 10^{-4}, 10^{-5}) Poisson-based degraded defect threshold selection (MI_DEG_X: 10^{-5}, 10^{-6}, 10^{-7}, 10^{-8}, 10^{-9})	Poisson-based excessive errors fault cause (MI_cEXC) Poisson-based degraded errors fault cause (MI_cDEG)
		Burst-based degraded defect interval threshold selection (MI_DEGTHR: 0..(SES estimator 30)..100% or 0...N) (Note 2) Burst-based degraded defect monitor period selection (MI_DEGM: 2..(7)..10) (Note 4)	Burst-based degraded errors fault cause (MI_cDEG)
	Maintenance signals processing	AIS fault cause reporting control (MI_AIS_Reported: true, false)	AIS fault cause (MI_cAIS, MI_cIncAIS)
		SSF fault cause reporting control (MI_SSF_Reported: true, false)	SSF fault cause (MI_cSSF)
		RDI fault cause reporting control (MI_RDI_Reported: true, false)	RDI fault cause (MI_cRDI)
		ODI fault cause reporting control (MI_ODI_Reported: true, false)	ODI fault cause (MI_cODI)
	Performance monitoring	1 second period indications (MI_1second)	Performance monitoring primitives (MI_pN_EBC, MI_pN_DS, MI_pF_EBC, MI_pF_DS, ...)
A_So_MP	Selection	Payload composition selection (MI_Active: true, false) (Note 5)	
	Performance monitoring		Performance monitoring justification actions (MI_pPJC+, MI_pPJC−)
A_Sk_MP	Selection	Payload composition selection (MI_Active: true, false) (Note 5)	
	Maintenance signal processing	AIS fault cause reporting control (MI_AIS_Reported: true, false)	AIS fault cause (MI_cAIS)
	Payload type supervision		Accepted (received) payload type value (MI_AcSL) Miscomposed traffic fault cause (MI_cPLM)
	Alignment supervision		Alignment loss fault cause (MI_cLOF, MI_cLOM, MI_cLOP)

Table 7-1 – Generic command, configuration, provisioning and reporting information flow over the XXX_MP reference points

Management point	Process within atomic function	Input ("Set")	Output ("Get")
	Connection management	Matrix connection selection	
C_MP	Protection	Protection group selection (set of connection points, protection architecture: 1+1/1:n/m:n, switching type: uni/bidirectional, operation type: revertive/non-revertive, APS usage: true/false, extra traffic: true/false) External switch commands (MI_ExtCmd: LO, FS, MS, EXER, CLR) External control command (LOW) Hold off time value (MI_HOtime) WaitToRestore value (MI_WTRtime: 0..(5)..12 minutes) (Note 3)	Protocol fault cause (MI_cFOP) Protection status (for further study)

NOTE 1 – Underlined values are suggested defaults.

NOTE 2 – For higher rate interfaces, this default is undefined. Values less than 1% will need to be supported.

NOTE 3 – The value of 0 for WTR is intended to be used for testing purposes only. It is not recommended for use in operational networks.

NOTE 4 – Equipment designed prior to the 2016 version of G.806 may use a default MI_DEGTHR value of 30% and of MI_DEGM of 10.

NOTE 5 – This attribute is modelled for [ITU-T G.783] and [ITU-T G.705]. It is set true only when multiple adaptation functions are connected to the same AP and accessing the same time slots (bits/bytes).

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