

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

G.874

Amendment 1
(04/2012)

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

Digital networks – Optical transport networks

Management aspects of optical transport network
elements

Amendment 1

Recommendation ITU-T G.874 (2010) – Amendment 1

ITU-T G-SERIES RECOMMENDATIONS

TRANSMISSION SYSTEMS AND MEDIA, DIGITAL SYSTEMS AND NETWORKS

INTERNATIONAL TELEPHONE CONNECTIONS AND CIRCUITS	G.100–G.199
GENERAL CHARACTERISTICS COMMON TO ALL ANALOGUE CARRIER-TRANSMISSION SYSTEMS	G.200–G.299
INDIVIDUAL CHARACTERISTICS OF INTERNATIONAL CARRIER TELEPHONE SYSTEMS ON METALLIC LINES	G.300–G.399
GENERAL CHARACTERISTICS OF INTERNATIONAL CARRIER TELEPHONE SYSTEMS ON RADIO-RELAY OR SATELLITE LINKS AND INTERCONNECTION WITH METALLIC LINES	G.400–G.449
COORDINATION OF RADIOTELEPHONY AND LINE TELEPHONY	G.450–G.499
TRANSMISSION MEDIA AND OPTICAL SYSTEMS CHARACTERISTICS	G.600–G.699
DIGITAL TERMINAL EQUIPMENTS	G.700–G.799
DIGITAL NETWORKS	G.800–G.899
General aspects	G.800–G.809
Design objectives for digital networks	G.810–G.819
Quality and availability targets	G.820–G.829
Network capabilities and functions	G.830–G.839
SDH network characteristics	G.840–G.849
Management of transport network	G.850–G.859
SDH radio and satellite systems integration	G.860–G.869
Optical transport networks	G.870–G.879
DIGITAL SECTIONS AND DIGITAL LINE SYSTEM	G.900–G.999
MULTIMEDIA QUALITY OF SERVICE AND PERFORMANCE – GENERIC AND USER-RELATED ASPECTS	G.1000–G.1999
TRANSMISSION MEDIA CHARACTERISTICS	G.6000–G.6999
DATA OVER TRANSPORT – GENERIC ASPECTS	G.7000–G.7999
PACKET OVER TRANSPORT ASPECTS	G.8000–G.8999
ACCESS NETWORKS	G.9000–G.9999

For further details, please refer to the list of ITU-T Recommendations.

Recommendation ITU-T G.874

Management aspects of optical transport network elements

Amendment 1

Summary

Amendment 1 to Recommendation ITU-T G.874 (2010) includes the following updates to align with Amendment 1 (2011), Corrigendum 2 (2011) and Amendment 2 (2012) of Recommendation ITU-T G.798 (2010).

- Add ODUkT_TT_Sk_MI_LTCAct_Enable, default "false".
- Add fault cause and MI for new ODUkP-h/ETH_A, k=1,2, 3,flex.
- Add fault cause and MI for new ODUkP-h/ODUj-21_A, k=2,3,4; j=0,1,2,2e,3,flex.
- Add new MI input ODUkT_TCMCm_MI_TCM_Extension.

History

Edition	Recommendation	Approval	Study Group
1.0	ITU-T G.874	2001-11-29	15
2.0	ITU-T G.874	2008-03-29	15
3.0	ITU-T G.874	2010-07-29	15
3.1	ITU-T G.874 (2010) Cor. 1	2011-06-06	15
3.2	ITU-T G.874 (2010) Amd. 1	2012-04-06	15

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications, information and communication technologies (ICTs). The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

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.

INTELLECTUAL PROPERTY RIGHTS

ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the Recommendation development process.

As of the date of approval of this Recommendation, ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database at <http://www.itu.int/ITU-T/ipr/>.

© ITU 2012

All rights reserved. No part of this publication may be reproduced, by any means whatsoever, without the prior written permission of ITU.

Table of Contents

	Page
1) Scope	1
2) Modifications to the text.....	1
2.1) Updates to Table 7-1	1
2.2) Updates to Table 7-2	4
2.3) Updates to Table 7-3	6
2.4) Updates to Table 8-1	9
2.5) Updates to Table 8-2	11
2.6) Updates to Table 8-4	20
2.7) Updates to Table 10-1	20

Recommendation ITU-T G.874

Management aspects of optical transport network elements

Amendment 1

1) Scope

This amendment contains updates to Recommendation ITU-T G.874 (2010) to align with Amendment 1 (2011), Corrigendum 2 (2011) and Amendment 2 (2012) of Recommendation ITU-T G.798 (2010).

2) Modifications to the text

2.1) Updates to Table 7-1

Add new entries as shown below:

Table 7-1 – Inputs/outputs for the fault cause persistency function

Atomic functions	Input (fault cause)	Output (failure)
OTSn_TT_Sk	cTIM cBDI cBDI-O cBDI-P cLOS-O cLOS-P cLOS	fTIM fBDI fBDI-O fBDI-P fLOS-O fLOS-P fLOS
OMSn_TT_Sk	cBDI cBDI-O cBDI-P cSSF cSSF-O cSSF-P cLOS-P	fBDI fBDI-O fBDI-P fSSF fSSF-O fSSF-P fLOS-P
OMSnP_TT_Sk	cSSF cSSF-O cSSF-P	fSSF fSSF-O fSSF-P
OPSn_TT_Sk	cLOS-P	fLOS-P
OPSMnk_TT_Sk	cLOS cLOL	fLOS fLOL
OPSM/OTUk-a_A_Sk	cLOS cLOM	fLOS fLOM
OPSM/OTUk-b_A_Sk	cLOS cLOM	fLOS fLOM
OCh_TT_Sk	cLOS-P cSSF cSSF-P cSSF-O cOCI	fLOS-P fSSF fSSF-P fSSF-O fOCI

Table 7-1 – Inputs/outputs for the fault cause persistency function

Atomic functions	Input (fault cause)	Output (failure)
OChr_TT_Sk	cLOS cSSF-P	fLOS fSSF-P
OCh/OTUk-a_A_Sk	cLOF cLOM	fLOF fLOM
OCh/OTUk-b_A_Sk	cLOF cLOM	fLOF fLOM
OCh/OTUk-v_A_Sk	cLOF cLOM	fLOF fLOM
OCh/OTUkV_A_Sk	cLOF cLOM (multiframe OTUkV only)	fLOF fLOM
OCh/RSn_A_Sk	cLOF	fLOF
OTUk_TT_Sk	cTIM cDEG cBDI cSSF	fTIM fDEG fBDI fSSF
OTUkV_TT_Sk	cTIM cDEG cBDI cSSF	fTIM fDEG fBDI fSSF
OTUkV/ODUk_A_Sk (<i>If loss of alignment supervision is performed</i>)	cLOA	fLOA
ODUk_C	cFOP-PM cFOP-NR	fFOP-PM fFOP-NR
ODUkP_TT_Sk	cOCI cTIM cDEG cBDI cSSF cLCK	fOCI fTIM fDEG fBDI fSSF fLCK
ODUkP/CBRx_A_Sk	cPLM cCSF	fPLM fCSF
ODUkP/VP_A_Sk	cPLM cLCD	fPLM fLCD
ODUkP/NULL_A_Sk	cPLM	fPLM
ODUkP/PRBS_A_Sk	cPLM cLSS	fPLM fLSS
ODUkP/RSn_A_Sk	cPLM cLOF	fPLM fLOF
ODUkP/ODU[i]j_A_Sk	cPLM cMSIM _{[n+m][p]} cLOFLOM _[p] (Note 1)	fPLM fMSIM _{[n+m][p]} fLOFLOM _[p]

Table 7-1 – Inputs/outputs for the fault cause persistency function

Atomic functions	Input (fault cause)	Output (failure)
ODUkP/ODUj-21_A_Sk	cPLM cLOOMFI cMSIM[p][i] cLOFLOM[i][p] (Note 2)	fPLM fLOOMFI fMSIM[p][i] fLOFLOM[i][p]
ODUkP-h/ETH_A_Sk	cPLM cLFD cUPM cEXM cCSF	fPLM fLFD fUPM fEXM fCSF
ODUkP-h/ODUj-21_A_Sk	cPLM cLOOMFI cMSIM[p] cRCOHM (Note 2)	fPLM fLOOMFI fMSIM[p] fRCOHM
ODUkT_TT_Sk	cOCI cTIM cDEG cBDI cSSF cLCK cLTC	fOCI fTIM fDEG fBDI fSSF fLCK fLTC
ODUkTm_TT_Sk	cOCI cTIM cDEG cBDI cSSF cLCK cLTC	fOCI fTIM fDEG fBDI fSSF fLCK fLTC
ODUkP-Xv/ODUkP-X-L_A_Sk	cPLM[1..XMR]	fPLM[1..XMR]
ODUkP-X-L/CBRx_A_Sk	cVcPLM	fVcPLM
ODUkP-X-L/RSn_A_Sk	cVcPLM cLOF	fVcPLM fLOF
ODUkP-X-L/VP_A_Sk	cVcPLM cLCD	fVcPLM fLCD
ODUkP-X-L/NULL_A_Sk	cVcPLM	fVcPLM
ODUkP-X-L/PRBS_A_Sk	cVcPLM cLSS	fVcPLM fLSS
OSx_TT_Sk	cLOS	fLOS
NOTE 1 – [p] = [1..n] when doing $n \times \text{ODUj_CP}$, or [p] = [1..m] when doing $m \times \text{ODUi_CP}$, respectively. NOTE 2 – [p] = [1..n] when doing $n \times \text{ODUj_CP}$.		

2.2) Updates to Table 7-2

Add new entries as shown below:

Table 7-2 – ARC specifications for the OTN

Atomic function	Qualified problems	QoS reporting	Default ARC state value constraints
OTSn_TT_Sk	fTIM fBDI fBDI-P fLOS-P fLOS	FFS	ALM
OMSn_TT_Sk	fBDI fBDI-P fSSF fSSF-P fLOS-P	FFS	ALM
OMSnP_TT_Sk	fSSF fSSF-P	FFS	ALM
OPSn_TT_Sk	fLOS-P	FFS	ALM
OPSMnk_TT_Sk	fLOS fLOL	FFS	ALM
OPSM/OTUk-a_A_Sk	fLOF fLOM	FFS	ALM
OPSM/OTUk-b_A_Sk	fLOF fLOM	FFS	ALM
OCh_TT_Sk	fLOS-P fSSF fSSF-P fOCI	FFS	ALM
OChr_TT_Sk	fLOS fSSF-P	FFS	ALM
OCh/OTUk-a_A_Sk	fLOF fLOM	FFS	ALM
OCh/OTUk-b_A_Sk	fLOF fLOM	FFS	ALM
OCh/OTUkV_A_Sk	fLOF fLOM	FFS	ALM
OCh/RSn_A_Sk	fLOF	FFS	ALM
OTUk_TT_Sk	fTIM fDEG fBDI fSSF	FFS	ALM
OTUkV_TT_Sk	fTIM fDEG fBDI fSSF	FFS	ALM
OTUkV/ODUk_A_Sk	fLOA	FFS	ALM

Table 7-2 – ARC specifications for the OTN

Atomic function	Qualified problems	QoS reporting	Default ARC state value constraints
ODUk_C	fFOP-PM fFOP-NR	FFS	ALM
ODUkP_TT_Sk	fOCI fTIM fDEG fBDI fSSF fLCK	FFS	ALM
ODUkP/CBRx_A_Sk	fPLM fCSF	FFS FFS	ALM FFS
ODUkP/VP_A_Sk	fPLM fLCD	FFS	ALM
ODUkP/NULL_A_Sk	fPLM	FFS	ALM
ODUkP/PRBS_A_Sk	fPLM fLSS	FFS	ALM
ODUkP/RSn_A_Sk	fPLM fLOF	FFS	ALM
ODUkP/ODU[i]j_A_Sk	fPLM fMSIM _{[n+m][p]} fLOFLOM _[p] (Note 1)	FFS	ALM
ODUkP/ODUj-21_A_Sk	fPLM fLOOMFI fMSIM _{[p][i]} fLOFLOM _[ip] (Note 2)	FFS	ALM
<u>ODUkP-h/ETH_A_Sk</u>	<u>fPLM</u> <u>fLFD</u> <u>fUPM</u> <u>fEXM</u> <u>fCSF</u>	<u>FFS</u>	<u>ALM</u>
<u>ODUkP-h/ODUj-21_A_Sk</u>	<u>fPLM</u> <u>fLOOMFI</u> <u>fMSIM[p]</u> <u>fRCOHM</u> (Note 2)	<u>FFS</u>	<u>ALM</u>
ODUkT_TT_Sk	fOCI fTIM fDEG fBDI fSSF fLCK fLTC	FFS	ALM

Table 7-2 – ARC specifications for the OTN

Atomic function	Qualified problems	QoS reporting	Default ARC state value constraints
ODUkTm_TT_Sk	fOCI fTIM fDEG fBDI fSSF fLCK fLTC	FFS	ALM
ODUKP-Xv/ODUKP-X-L_A_Sk	fPLM[1..XMR]	FFS	ALM
ODUKP-X-L/CBRx_A_Sk	fVcPLM	FFS	ALM
ODUKP-X-L/RSn_A_Sk	fVcPLM fLOF	FFS	ALM
ODUKP-X-L/VP_A_Sk	fVcPLM fLCD	FFS	ALM
ODUKP-X-L/NULL_A_Sk	fVcPLM	FFS	ALM
ODUKP-X-L/PRBS_A_Sk	fVcPLM fLSS	FFS	ALM
OSx_TT_Sk	fLOS	FFS	ALM
NOTE 1 – [p] = [1..n] when doing $n \times \text{ODUj_CP}$, or [p] = [1..m] when doing $m \times \text{ODUi_CP}$, respectively.			
NOTE 2 – [p] = [1..n] when doing $n \times \text{ODUj_CP}$.			

2.3) Updates to Table 7-3

Add new entries as shown below:

Table 7-3 – Input and output signals of the operational state function for OTN

Atomic function	Failure input (fZZZ-value)	Operational state output (enabled/disabled) of the trail object class
OTSn_TT_Sk	fTIM fBDI fBDI-P fLOS-P fLOS	Enabled Enabled Enabled Disabled Disabled
OMSn_TT_Sk	fBDI fBDI-P fSSF fSSF-P fLOS-P	Enabled Enabled Enabled Enabled Disabled
OMSnP_TT_Sk	fSSF fSSF-P	Enabled Enabled
OPSn_TT_Sk	fLOS-P	Disabled
OPSMnk_TT_Sk	fLOS fLOL	Disabled Disabled

Table 7-3 – Input and output signals of the operational state function for OTN

Atomic function	Failure input (fZZZ-value)	Operational state output (enabled/disabled) of the trail object class
OPSM/OTUk-a_A_Sk	fLOF fLOM	Disabled Disabled
OPSM/OTUk-b_A_Sk	fLOF fLOM	Disabled Disabled
OCh_TT_Sk	fLOS-P fSSF fSSF-P fOCI	Disabled Enabled Enabled Enabled
OChr_TT_Sk	fLOS fSSF-P	Disabled Enabled
OCh/OTUk-a_A_Sk	fLOF fLOM	Disabled Disabled
OCh/OTUk-b_A_Sk	fLOF fLOM	Disabled Disabled
OCh/OTUkV_A_Sk	fLOF fLOM	Disabled Disabled
OCh/RSn_A_Sk	fLOF	Disabled
OTUk_TT_Sk	fTIM fDEG fBDI fSSF	Enabled Enabled Enabled Enabled
OTUkV_TT_Sk	fTIM fDEG fBDI fSSF	Enabled Enabled Enabled Enabled
OTUkV/ODUk_A_Sk	fLOA	Disabled
ODUk_C	fFOP-PM fFOP-NR	Disabled Disabled
ODUkP_TT_Sk	fOCI fTIM fDEG fBDI fSSF fLCK	Enabled Enabled Enabled Enabled Enabled Enabled
ODUkP/CBRx_A_Sk	fPLM fCSF	<u>Disabled</u> <u>Enabled</u>
ODUkP/VP_A_Sk	fPLM fLCD	<u>Disabled</u> <u>Disabled</u>
ODUkP/NULL_A_Sk	fPLM	<u>Disabled</u>
ODUkP/PRBS_A_Sk	fPLM fLSS	<u>Disabled</u> <u>Disabled</u>
ODUkP/RSn_A_Sk	fPLM fLOF	<u>Disabled</u> Disabled

Table 7-3 – Input and output signals of the operational state function for OTN

Atomic function	Failure input (fZZZ-value)	Operational state output (enabled/disabled) of the trail object class
ODUKP/ODU[i]j_A_Sk	fPLM fMSIM[n+m][p] fLOFLOM[p] (Note 1)	<u>Disabled</u> <u>Disabled</u> <u>Disabled</u>
<u>ODUKP/ODUj-21_A_Sk</u>	<u>fPLM</u> <u>fLOOMFI</u> <u>fMSIM[p]</u> <u>fLOFLOM[p]</u> (Note 2)	<u>FFS</u> <u>FFS</u> <u>FFS</u> <u>Disabled</u>
<u>ODUKP-h/ETH_A_Sk</u>	<u>fPLM</u> <u>fLFD</u> <u>fUPM</u> <u>fEXM</u> <u>fCSF</u>	<u>Disabled</u> <u>Disabled</u> <u>Disabled</u> <u>Disabled</u> <u>Enabled</u>
<u>ODUKP-h/ODUj-21_A_Sk</u>	<u>fPLM</u> <u>fLOOMFI</u> <u>fMSIM[p]</u> <u>fRCOHM</u> (Note 2)	<u>Disabled</u> <u>Disabled</u> <u>Disabled</u> <u>FFS</u>
ODUKT_TT_Sk	fOCI fTIM fDEG fBDI fSSF fLCK fLTC	Enabled Enabled Enabled Enabled Enabled Enabled FFS
ODUKTm_TT_Sk	fOCI fTIM fDEG fBDI fSSF fLCK fLTC	Enabled Enabled Enabled Enabled Enabled Enabled FFS
ODUKP-Xv/ODUKP-X-L_A_Sk	fPLM[1..XMR]	FFS
ODUKP-X-L/CBRx_A_Sk	fVcPLM	FFS
ODUKP-X-L/RSn_A_Sk	fVcPLM fLOF	FFS Disabled
ODUKP-X-L/VP_A_Sk	fVcPLM fLCD	FFS Disabled
ODUKP-X-L/NULL_A_Sk	fVcPLM	FFS
ODUKP-X-L/PRBS_A_Sk	fVcPLM fLSS	FFS FFS
OSx_TT_Sk	fLOS	Disabled
<u>NOTE 1 – [p] = [1..n] when doing n × ODUj_CP, or [p] = [1..m] when doing m × ODUi_CP, respectively.</u>		
<u>NOTE 2 – [p] = [1..n] when doing n × ODUj_CP.</u>		

2.4) Updates to Table 8-1

Add new entries as shown below:

Table 8-1 – Trace identifier-related provisioning and reporting

MI signal	Value range	Default value
OTSn_TT_So Provisioning		
OTSn_TT_So_MI_TxTI	According to [ITU-T G.709]	Not applicable
OTSn_TT_So_MI_APRCntrl	Enable, Disable	Enable
OTSn_TT_Sk Provisioning		
OTSn_TT_Sk_MI_ExSAPI	According to [ITU-T G.709]	Not applicable
OTSn_TT_Sk_MI_ExDAPI	According to [ITU-T G.709]	Not applicable
OTSn_TT_Sk_MI_GetAcTI	According to [ITU-T G.798]	Not applicable
OTSn_TT_Sk_MI_TIMDetMo	According to [ITU-T G.798]	FFS
OTSn_TT_Sk_MI_TIMActDis	True, false	True
OTSn_TT_Sk_MI_1second	According to [ITU-T G.798]	Not applicable
OMSn_TT_Sk Provisioning		
OMSn_TT_Sk_MI_1second	According to [ITU-T G.798]	Not applicable
OTUk_TT_So Provisioning		
OTUk_TT_So_MI_TxTI	According to [ITU-T G.709]	Not applicable
OTUk_TT_Sk Provisioning		
OTUk_TT_Sk_MI_ExSAPI	According to [ITU-T G.709]	Not applicable
OTUk_TT_Sk_MI_ExDAPI	According to [ITU-T G.709]	Not applicable
OTUk_TT_Sk_MI_GetAcTI	According to [ITU-T G.798]	Not applicable
OTUk_TT_Sk_MI_TIMDetMo	According to [ITU-T G.798]	FFS
OTUk_TT_Sk_MI_TIMActDis	True, false	True
OTUk_TT_Sk_MI_DEGThr	0%..100%; see Table 7-1 of [ITU-T G.806]	30%
OTUk_TT_Sk_MI_DEGM	2-10; see Table 7-1 of [ITU-T G.806]	10
OTUk_TT_Sk_MI_1second	According to [ITU-T G.798]	Not applicable
OTUkV_TT_So Provisioning		
OTUkV_TT_So_MI_TxTI	According to [ITU-T G.709]	Not applicable
OTUkV_TT_Sk Provisioning		
OTUkV_TT_Sk_MI_ExSAPI	According to [ITU-T G.709]	Not applicable
OTUkV_TT_Sk_MI_ExDAPI	According to [ITU-T G.709]	Not applicable
OTUkV_TT_Sk_MI_GetAcTI	According to [ITU-T G.798]	Not applicable
OTUkV_TT_Sk_MI_TIMDetMo	According to [ITU-T G.798]	FFS
OTUkV_TT_Sk_MI_TIMActDis	Enabled, disabled	Disabled
OTUkV_TT_Sk_MI_DEGThr	0%..100%; see Table 7-1 of [ITU-T G.806]	30%
OTUkV_TT_Sk_MI_DEGM	2-10; see Table 7-1 of [ITU-T G.806]	10

Table 8-1 – Trace identifier-related provisioning and reporting

MI signal	Value range	Default value
OTUkV_TT_Sk_MI_1second	According to [ITU-T G.798]	Not applicable
ODUKP_TT_So Provisioning		
ODUKP_TT_So_MI_TxTI	According to [ITU-T G.709]	Not applicable
ODUKP_TT_So_MI_DM_Source	According to [ITU-T G.709]	Not applicable
ODUKP_TT_So_MI_DMValue	According to [ITU-T G.709]	Not applicable
ODUKP_TT_Sk Provisioning		
ODUKP_TT_Sk_MI_ExSAPI	According to [ITU-T G.709]	Not applicable
ODUKP_TT_Sk_MI_ExDAPI	According to [ITU-T G.709]	Not applicable
ODUKP_TT_Sk_MI_GetAcTI	According to [ITU-T G.798]	Not applicable
ODUKP_TT_Sk_MI_TIMDetMo	According to [ITU-T G.798]	FFS
ODUKP_TT_Sk_MI_TIMActDis	Enabled, disabled	Disabled
ODUKP_TT_Sk_MI_DM_Source	According to [ITU-T G.709]	Not applicable
ODUKP_TT_Sk_MI_DMValue	According to [ITU-T G.709]	Not applicable
ODUKT_TT_So Provisioning		
ODUKT_TT_So_MI_TxTI	According to [ITU-T G.709]	Not applicable
ODUKT_TT_So_MI_DM_Source	According to [ITU-T G.709]	Not applicable
ODUKT_TT_So_MI_DMValue	According to [ITU-T G.709]	Not applicable
ODUKT_TT_Sk Provisioning		
ODUKT_TT_Sk_MI_ExSAPI	According to [ITU-T G.709]	Not applicable
ODUKT_TT_Sk_MI_ExDAPI	According to [ITU-T G.709]	Not applicable
ODUKT_TT_Sk_MI_GetAcTI	According to [ITU-T G.798]	Not applicable
ODUKT_TT_Sk_MI_TIMDectMo	According to [ITU-T G.798]	FFS
ODUKT_TT_Sk_MI_TIMActDis	Enabled, disabled	Disabled
ODUKT_TT_Sk_MI_DEGThr	0%..100%; See Table 7-1 of [ITU-T G.806]	30%
ODUKT_TT_Sk_MI_DEGM	2-10; see Table 7-1 of [ITU-T G.806]	10
ODUKT_TT_Sk_MI_1second	According to [ITU-T G.798]	Not applicable
ODUKT_TT_Sk_MI_DM_Source	According to [ITU-T G.709]	Not applicable
ODUKT_TT_Sk_MI_DMValue	According to [ITU-T G.709]	Not applicable
ODUKT_TT_Sk_MI_LTCAct_Enable	<u>true, false</u>	<u>false</u>
ODUKT_TT_Sk Reporting		
ODUKT_TT_Sk_MI_AcTI	According to [ITU-T G.709]	Not applicable
ODUKTm_TT_Sk Provisioning		
ODUKTm_TT_Sk_MI_Level	1..6	Not applicable
ODUKTm_TT_Sk_MI_ExSAPI	According to [ITU-T G.709]	Not applicable
ODUKTm_TT_Sk_MI_ExDAPI	According to [ITU-T G.709]	Not applicable
ODUKTm_TT_Sk_MI_GetAcTI	According to [ITU-T G.798]	Not applicable
ODUKTm_TT_Sk_MI_TIMDectMo	According to [ITU-T G.798]	FFS

Table 8-1 – Trace identifier-related provisioning and reporting

MI signal	Value range	Default value
ODUkTm_TT_Sk_MI_TIMActDis	Enabled, disabled	Disabled
ODUkTm_TT_Sk_MI_DEGThr	0%..100%; see Table 7-1 of [ITU-T G.806]	30%
ODUkTm_TT_Sk_MI_DEGM	2-10; see Table 7-1 of [ITU-T G.806]	10
ODUkTm_TT_Sk_MI_1second	According to [ITU-T G.798]	Not applicable
ODUkTm_TT_Sk Reporting		
ODUkTm_TT_Sk_MI_AcTI	According to [ITU-T G.709]	Not applicable
OSx_TT_So Provisioning		
OSx_TT_So_MI_APRCntrl (Notes 1 and 2)	Enable, disable	Enable
NOTE 1 – If APR is required.		
NOTE 2 – The APRCntrl commands depend on the specific APR process.		

2.5) Updates to Table 8-2

Add new entries as shown below:

Table 8-2 – Provisioning and reporting for adaptation functions

MI signal	Value range	Default value
OPSM/OTUk-a_A_So Provisioning		
OPSM/OTUk-a_A_So_MI_Active	True, false	False
OPSM/OTUk-b_A_So Provisioning		
OPSM/OTUk-b_A_So_MI_Active	True, false	False
OPSM/OTUk-a_A_Sk Provisioning		
OPSM/OTUk-a_A_Sk_MI_FECEn (not for OTU4)	True, false	True
OPSM/OTUk-a_A_Sk_MI_Active	True, false	False
OPSM/OTUk-a_A_Sk_MI_1second	According to [ITU-T G.798]	Not applicable
OPSM/OTUk-b_A_Sk Provisioning		
OPSM/OTUk-b_A_Sk_MI_Active	True, false	False
OCh/OTUk-a_A_So Provisioning		
OCh/OTUk-a_A_So_MI_Active	True, false	False
OCh/OTUk-b_A_So Provisioning		
OCh/OTUk-b_A_So_MI_Active	True, false	False
OCh/OTUk-a_A_Sk Provisioning		
OCh/OTUk-a_A_Sk_MI_FECEn	True, false	True
OCh/OTUk-a_A_Sk_MI_Active	True, false	False
OCh/OTUk-a_A_Sk_MI_1second	According to [ITU-T G.798]	Not applicable

Table 8-2 – Provisioning and reporting for adaptation functions

MI signal	Value range	Default value
OCh/OTUk-b_A_Sk Provisioning		
OCh/OTUk-b_A_Sk_MI_Active	True, false	False
OCh/OTUk-v_A_So Provisioning		
OCh/OTUk-v_A_So_MI_Active	True, false	False
OCh/OTUk-v_A_Sk Provisioning		
OCh/OTUk-v_A_Sk_MI_FECEn	True, false	True
OCh/OTUk-v_A_Sk_MI_Active	True, false	False
OCh/OTUk-v_A_Sk_MI_1second	According to [ITU-T G.798]	Not applicable
OCh/OTUkV_A_So Provisioning		
OCh/OTUkV_A_So_MI_Active	True, false	False
OCh/OTUkV_A_Sk Provisioning		
OCh/OTUkV_A_Sk_MI_Active	True, false	False
OCh/OTUkV_A_Sk_MI_1second (Note 1)	According to [ITU-T G.798]	Not applicable
OCh/CBRx_A_So Provisioning		
OCh/CBRx_A_So_MI_Active	True, false	False
OCh/CBRx_A_Sk Provisioning		
OCh/CBRx_A_Sk_MI_Active	True, false	False
OCh/RSn_A_So Provisioning		
OCh/RSn_A_So_MI_Active	True, false	False
OCh/RSn_A_Sk Provisioning		
OCh/RSn_A_Sk_MI_Active	True, false	False
OTUk/ODUk_A_So Provisioning		
OTUk/ODUk_A_So_MI_AdminState	LOCKED, Not LOCKED	Not LOCKED
OTUk/ODUk_A_Sk Provisioning		
OTUk/ODUk_A_Sk_MI_AdminState	LOCKED, Not LOCKED	Not LOCKED
OTUkV/ODUk_A_So Provisioning		
OTUkV/ODUk_A_So_MI_AdminState	LOCKED, Not LOCKED	Not LOCKED
OTUkV/ODUk_A_Sk Provisioning		
OTUkV/ODUk_A_Sk_MI_AdminState	LOCKED, Not LOCKED	Not LOCKED
OTUk/COMMS_A_So Provisioning		
OTUk/COMMS_A_So_MI_Active	True, false	False
OTUk/COMMS_A_Sk Provisioning		
OTUk/COMMS_A_Sk_MI_Active	True, false	False

Table 8-2 – Provisioning and reporting for adaptation functions

MI signal	Value range	Default value
OTUkV/COMMS_A_So_Provisioning		
OTUkV/COMMS_A_So_MI_Active	True, false	False
OTUkV/COMMS_A_Sk_Provisioning		
OTUkV/COMMS_A_Sk_MI_Active	True, false	False
ODUKP/CBRx-a_A_So_Provisioning		
ODUKP/CBRx-a_A_So_MI_Active, k=1, 2, 2e, 3; (Note 2)	True, false	False
ODUKP/CBRx-b_A_So_Provisioning		
ODUKP/CBRx-b_A_So_MI_Active, k=1, 2, 2e, 3; (Note 2)	True, false	False
ODUKP/CBRx_A_Sk_Provisioning		
ODUKP/CBRx_A_Sk_MI_Active, k=1, 2, 2e, 3; (Note 2)	True, false	False
ODUKP/CBRx_A_Sk Reporting		
ODUKP/CBRx_A_Sk_MI_AcPT, k=1, 2, 2e, 3; (Note 2)	According to [ITU-T G.709]	Not applicable
ODUKP/CBRx-g_A_So Provisioning		
ODUKP/CBRx_A_So_MI_Active, k=1, 2, 2e, 3; (Note 2)	True, false	False
ODUKP/ CBRx-g_A_Sk Provisioning		
ODUKP/CBRx_A_Sk_MI_Active, k=1, 2, 2e, 3; (Note 2)	True, false	False
ODUKP/ CBRx-g_A_Sk Reporting		
ODUKP/CBRx_A_Sk_MI_AcPT, k=1, 2, 2e, 3; (Note 2)	According to [ITU-T G.709]	Not applicable
ODU0P/CBRx_A_So Provisioning		
ODU0P/CBRx_A_So_MI_Active, k=0; (Note 3)	True, false	False
ODU0P/CBRx_A_Sk Provisioning		
ODU0P/CBRx_A_Sk_MI_Active, k=0; (Note 3)	True, false	False
ODU0P/CBRx_A_Sk Reporting		
ODU0P/CBRx_A_Sk_MI_AcPT, k=0; (Note 3)	According to [ITU-T G.709]	Not applicable
ODUKP/VP_A_So Provisioning		
ODUKP/VP_A_So_MI_Active, k=1, 2, 2e, 3	True, false	False
ODUKP/VP_A_So_MI_CellDiscardActive, k=1, 2, 2e, 3	True, false	False
ODUKP/VP_A_So_MI_TPusgActive, k=1, 2, 2e, 3	True, false	False
ODUKP/VP_A_So_MI_GFCActive, k=1, 2, 2e, 3	True, false	False
ODUKP/VP_A_So_MI_VPI-KActive, k=1, 2, 2e, 3	True, false	False
ODUKP/VP_A_Sk Provisioning		
ODUKP/VP_A_Sk_MI_Active, k=1, 2, 2e, 3	True, false	False
ODUKP/VP_A_Sk_MI_CellDiscardActive, k=1, 2, 2e, 3	True, false	False
ODUKP/VP_A_Sk_MI_TPusgActive, k=1, 2, 2e, 3	True, false	False
ODUKP/VP_A_Sk_MI_VPIrange, k=1, 2, 2e, 3	0..4095	Not applicable
ODUKP/VP_A_Sk_MI_HECActive, k=1, 2, 2e, 3	True, false	False

Table 8-2 – Provisioning and reporting for adaptation functions

MI signal	Value range	Default value
ODUKP/VP_A_Sk_MI_GFCActive, k=1, 2, 2e, 3	True, false	False
ODUKP/VP_A_Sk_MI_DTDLuseEnabled, k=1, 2, 2e, 3	True, false	False
ODUKP/VP_A_Sk_MI_VPI-KActive, k=1, 2, 2e, 3	True, false	False
ODUKP/VP_A_Sk_MI_VPIK_SAISActive, k=1, 2, 2e, 3	True, false	False
ODUKP/VP_A_Sk Reporting		
ODUKP/VP_A_Sk_MI_AcPT, k=1, 2, 2e, 3	According to [ITU-T G.709]	Not applicable
ODUKP/NULL_A_So Provisioning		
ODUKP/NULL_A_So_MI_Active, k=0, 1, 2, 2e, 3, 4, flex	True, false	False
ODUKP/NULL_A_So_MI_Nominal_Bitrate_and_Tolerance	According to [ITU-T G.709]	Not applicable
ODUKP/NULL_A_Sk Provisioning		
ODUKP/NULL_A_Sk_MI_Active, k=0, 1, 2, 2e, 3, 4, flex	True, false	False
ODUKP/NULL_A_Sk Reporting		
ODUKP/NULL_A_Sk_MI_AcPT, k=0, 1, 2, 2e, 3, 4, flex	According to [ITU-T G.709]	Not applicable
ODUKP/PRBS_A_So Provisioning		
ODUKP/PRBS_A_So_MI_Active, k=0, 1, 2, 2e, 3, 4, flex	True, false	False
ODUKP/PRBS_A_So_MI_Nominal_Bitrate_and_Tolerance	According to [ITU-T G.709]	Not applicable
ODUKP/PRBS_A_Sk Provisioning		
ODUKP/PRBS_A_Sk_MI_Active, k=0, 1, 2, 2e, 3, 4, flex	True, false	False
ODUKP/PRBS_A_Sk Reporting		
ODUKP/PRBS_A_Sk_MI_AcPT, k=0, 1, 2, 2e, 3, 4, flex	According to [ITU-T G.709]	Not applicable
ODUKP/RSn-a_A_So Provisioning		
ODUKP/RSn-a_A_So_MI_Active, k=1, 2, 3	True, false	False
ODUKP/RSn-b_A_So Provisioning		
ODUKP/RSn-b_A_So_MI_Active, k=1, 2, 3	True, false	False
ODUKP/RSn_A_Sk Provisioning		
ODUKP/RSn_A_Sk_MI_Active, k=1, 2, 3	True, false	False
ODUKP/RSn_A_Sk Reporting		
ODUKP/RSn_A_Sk_MI_AcPT, k=1, 2, 3	According to [ITU-T G.709]	Not applicable
ODUKP/ODU[i]j_A_So Provisioning		
ODUKP/ODU[i]j_A_So_MI_Active	True, false	False
ODUKP/ODU[i]j_A_So_MI_AdminState[n+mp] (Note 4)	LOCKED, Not LOCKED	Not LOCKED

Table 8-2 – Provisioning and reporting for adaptation functions

MI signal	Value range	Default value
ODU3P/ODU12_A_So Provisioning		
ODU3P/ODU12_A_So_MI_TxMSI	According to Table 14-30 of [ITU-T G.798]	Not applicable
ODUkP/ODU[i]j_A_Sk Provisioning		
ODUkP/ODU[i]j_A_Sk_MI_Active	True, false	False
ODUkP/ODU[i]j_A_Sk_MI_AdminState[n+m] (Note 4)	LOCKED, Not LOCKED	Not LOCKED
ODU3P/ODU12_A_Sk Provisioning		
ODU3P/ODU12_A_Sk_MI_ExMSI[p][n+m] (Note 4)	According to Table 14-32 of [ITU-T G.798]	Not applicable
ODUkP/ODU[i]j_A_Sk Reporting		
ODUkP/ODU[i]j_A_Sk_MI_AcPT	According to [ITU-T G.709]	Not applicable
ODUkP/ODU[i]j_A_Sk_MI_AcMSI[n+m][p] (Note 4)	According to [ITU-T G.709]	Not applicable
ODUkP/ODUj-21_A_So Provisioning		
ODUkP/ODUj-21_A_So_MI_Active	True, false	False
ODUkP/ODUj-21_A_So_MI_TxMSI	According to [ITU-T G.798]	Not applicable
ODUkP/ODUj-21_A_So_MI_AUTOpayloadtype	According to [ITU-T G.709]	Not applicable
ODUkP/ODUj-21_A_So_MI_ODUType_Rate[i]	According to [ITU-T G.709] clause 19.6	Not applicable
ODUkP/ODUj_A_So_MI_AdminState[n]	LOCKED, Not LOCKED	Not LOCKED
ODUkP/ODUj-21_A_So Reporting		
ODUkP/ODUj-21_A_So_MI_TrPT	According to [ITU-T G.709]	Not applicable
ODUkP/ODUj-21_A_Sk Provisioning		
ODUkP/ODUj-21_A_Sk_MI_Active	True, false	False
ODUkP/ODUj-21_A_Sk_MI_FExMSI[p] (Note 5)	According to [ITU-T G.798]	Not applicable
ODUkP/ODUj-21_A_Sk_MI_AdminState[mp] (Note 5)	LOCKED, Not LOCKED	Not LOCKED
ODUkP/ODUj-21_A_Sk_MI_Nominal_Bitrate_and_Tolerance[ip] (Note 5)	According to [ITU-T G.709]	Not applicable
ODUkP/ODUj-21_A_Sk_MI_ODUType [ip] (Note 5)	According to [ITU-T G.709] clause 19.6	Not applicable

Table 8-2 – Provisioning and reporting for adaptation functions

MI signal	Value range	Default value
<u>ODUKP/ODUj-21_A_Sk Reporting</u>		
<u>ODUKP/ODUj-21_A_Sk_MI_AcPT</u>	According to [ITU-T G.709]	Not applicable
<u>ODUKP/ODUj-21_A_Sk_MI_AcMSI_[H][p]</u> (Note 5)	According to [ITU-T G.709]	Not applicable
<u>ODUKP-h/ETH_A_So Provisioning, k=1, 2, 3, flex</u>		
<u>ODUKP-h/ETH_A_So_MI_Active</u>	True, false	False
<u>ODUKP-h/ETH_A_So_MI_CSFEnable</u>	True, false	False
<u>ODUKP-h/ETH_A_So_MI_CSFrdifdiEnable</u>	True, false	False
<u>ODUKP-h/ETH_A_So_MI_INCREASE</u>	True, false	False
<u>ODUKP-h/ETH_A_So_MI_DECREASE</u>	True, false	False
<u>ODUKP-h/ETH_A_So_MI_TSNUM</u>	According to [ITU-T G.7044]	Not applicable
<u>ODUKP-h/ETH_A_So_MI_ODUflexRate</u>	FlexCBR, FlexGFP	N/A
<u>ODUKP-h/ETH_A_So Reporting, k=1, 2, 3, flex</u>		
<u>ODUKP-h/ETH-m_A_So_MI_ADJSTATE</u>	According to ITU-T G.7044	Not applicable
<u>ODUKP-h/ETH_A_Sk Provisioning, k=1, 2, 3, flex</u>		
<u>ODUKP-h/ETH_A_Sk_MI_Active</u>	True, false	False
<u>ODUKP/ETH-h_A_Sk_MI_FilterConfig</u>	According to [ITU-T G.7044]	Not applicable
<u>ODUKP/ETH-h_A_Sk_MI_CSF_Reported</u>	true, false	false
<u>ODUKP/ETH-h_A_Sk_MI_MAC_Length</u>	1518, 1522, 2000	2000
<u>ODUKP-h/ETH_A_Sk_MI_CSFrdifdiEnable</u>	True, false	False
<u>ODUKP-h/ETH_A_Sk_MI_INCREASE</u>	True, false	False
<u>ODUKP-h/ETH_A_Sk_MI_DECREASE</u>	True, false	False
<u>ODUKP-h/ETH_A_Sk Reporting: k=1, 2, 3, flex</u>		
<u>ODUKP/ETH_A_Sk_MI_AcPT</u>	According to [ITU-T G.709]	Not applicable
<u>ODUKP/ETH_A_Sk_MI_AcEXI</u>	According to [ITU-T G.709]	Not applicable
<u>ODUKP/ETH_A_Sk_MI_AcUPI</u>	According to [ITU-T G.709]	Not applicable
<u>ODUKP-h/ODUj-21_A_So Provisioning; k=2,3,4; j=0,1,2,2e,3,flex</u>		
<u>ODUKP-h/ODUj-21_A_So_MI_Active</u>	True, false	False
<u>ODUKP-h/ODUj-21_A_So_MI_TxMSI</u>	According to [ITU-T G.798]	Not applicable
<u>ODUKP-h/ODUj-21_A_So_MI_AUTOpayloadtype</u>	According to [ITU-T G.798]	Not applicable
<u>ODUKP-h/ODUj_A_So_MI_AdminState[n]</u>	According to [ITU-T G.798]	Not applicable

Table 8-2 – Provisioning and reporting for adaptation functions

MI signal	Value range	Default value
<u>ODUKP-h/ODUj-21_A_So_MI_INCREASE</u>	<u>True, false</u>	<u>False</u>
<u>ODUKP-h/ODUj-21_A_So_MI_DECREASE</u>	<u>True, false</u>	<u>False</u>
<u>ODUKP-h/ODUj-21_A_So_MI_TSMAP</u>	<u>According to [ITU-T G.7044]</u>	<u>Not applicable</u>
<u>ODUKP-h/ODUj-21_A_So_MI_TPID</u>	<u>According to [ITU-T G.7044]</u>	<u>Not applicable</u>
<u>ODUKP-h/ODUj-21_A_So Reporting; k=2,3,4; j=0,1,2,2e,3,flex</u>		
<u>ODUKP-h/ODUj-21_A_So_MI_TRPT</u>	<u>According to [ITU-T G.7044]</u>	<u>Not applicable</u>
<u>ODUKP-h/ODUj-21_A_Sk Provisioning; k=2,3,4; j=0,1,2,2e,3,flex</u>		
<u>ODUKP-h/ODUj21_A_Sk_MI_Active</u>	<u>True, false</u>	<u>False</u>
<u>ODU3P-h/ODUj21_A_Sk_MI_ExMSI[p]</u> (Note 5)	<u>According to [ITU-T G.798]</u>	<u>Not applicable</u>
<u>ODUKP-h/ODUj-21_A_Sk_MI_AdminState[p]</u> (Note 5)	<u>According to [ITU-T G.798]</u>	<u>Not applicable</u>
<u>ODUKP-h/ODUj-21_A_Sk_MI_Nominal_Bitrate_and_Tolerance[p]</u> (Note 5)	<u>According to [ITU-T G.798]</u>	<u>Not applicable</u>
<u>ODUKP-h/ODUj-21_A_Sk_MI_INCREASE</u>	<u>True, false</u>	<u>False</u>
<u>ODUKP-h/ODUj-21_A_Sk_MI_DECREASE</u>	<u>True, false</u>	<u>False</u>
<u>ODUKP-h/ODUj-21_A_Sk_MI_TSMAP</u>	<u>According to [ITU-T G.7044]</u>	<u>Not applicable</u>
<u>ODUKP-h/ODUj-21_A_Sk_MI_TPID</u>	<u>According to [ITU-T G.7044]</u>	<u>Not applicable</u>
<u>ODUKP-h/ODUj-21_A_Sk Reporting; k=2,3,4; j=0,1,2,2e,3,flex</u>		
<u>ODUKP-h/ODUj-21_A_Sk_MI_AcPT</u>	<u>According to [ITU-T G.709]</u>	<u>Not applicable</u>
<u>ODUKP-h/ODUj-21_A_Sk_MI_AcMSI[p]</u> (Note 5)	<u>According to [ITU-T G.709]</u>	<u>Not applicable</u>
<u>ODUKP/COMMS_A_So Provisioning</u>		
<u>ODUKP/COMMS_A_So_MI_Active, k=0, 1, 2, 2e, 3, 4, flex</u>	<u>True, false</u>	<u>False</u>
<u>ODUKP/COMMS_A_So_MI_GCCAccess, k=0, 1, 2, 2e, 3, 4, flex</u>	<u>GCC1, GCC2, GCC1+GCC2</u>	<u>Not applicable</u>
<u>ODUKP/COMMS_A_Sk Provisioning</u>		
<u>ODUKP/COMMS_A_Sk_MI_Active, k=0, 1, 2, 2e, 3, 4, flex</u>	<u>True, false</u>	<u>False</u>
<u>ODUKP/COMMS_A_Sk_MI_GCCAccess, k=0, 1, 2, 2e, 3, 4, flex</u>	<u>GCC1, GCC2, GCC1+GCC2</u>	<u>Not applicable</u>
<u>ODUK/COMMS_AC_So Provisioning</u>		
<u>ODUK/COMMS_AC_So_MI_Active, k=0, 1, 2, 2e, 3, 4, flex</u>	<u>True, false</u>	<u>False</u>
<u>ODUK/COMMS_AC_So_MI_GCCAccess, k=0, 1, 2, 2e, 3, 4, flex</u>	<u>GCC1, GCC2, GCC1+GCC2</u>	<u>Not applicable</u>

Table 8-2 – Provisioning and reporting for adaptation functions

MI signal	Value range	Default value
ODUk/COMMS_AC_Sk Provisioning		
ODUk/COMMS_AC_Sk_MI_Active, k=0, 1, 2, 2e, 3, 4, flex	True, false	False
ODUk/COMMS_AC_Sk_MI_GCCAccess, k=0, 1, 2, 2e, 3, 4, flex	GCC1, GCC2, GCC1+GCC2	Not applicable
ODUk/COMMS_AC_Sk_MI_GCCCont, k=0, 1, 2, 2e, 3, 4, flex	True, false	True
ODUKT/ODUk_A_So Provisioning		
ODUKT/ODUk_A_So_MI_AdminState, k=0, 1, 2, 2e, 3, 4, flex	LOCKED, Not LOCKED	Not LOCKED
ODUKT/ODUk_A_Sk Provisioning		
ODUKT/ODUk_A_Sk_MI_AdminState, k=0, 1, 2, 2e, 3, 4, flex	LOCKED, Not LOCKED	Not LOCKED
ODUKP-Xv/ODUKP-X-L_A_So Provisioning		
ODUKP-Xv/ODUKP-X-L_A_So_MI_Active, k=1, 2, 3	True, false	False
ODUKP-Xv/ODUKP-X-L_A_Sk Reporting		
ODUKP-Xv/ODUKP-X-L_A_Sk_MI_AcPT[1..XMR] , k=1, 2, 3	According to [ITU-T G.709]	Not applicable
ODUKP-Xv/ODUKP-X-L_A_Sk_MI_Active, k=1, 2, 3	True, false	False
ODUKP-X-L/CBRx-a_A_So Provisioning		
ODUKP-X-L/CBRx-a_A_So_MI_Active, k=1, 2, 3	True, false	False
ODUKP-X-L/CBRx-b_A_So_MI_Active, k=1, 2, 3	True, false	False
ODUKP-X-L/CBRx_A_Sk Provisioning		
ODUKP-X-L/CBRx_A_Sk_MI_Active, k=1, 2, 3	True, false	False
ODUKP-X-L/CBRx_A_Sk Reporting		
ODUKP-X-L/CBRx_A_Sk_MI_AcVcPT, k=1, 2, 3	According to [ITU-T G.709]	Not applicable
ODUKP-X-L/RSn-a_A_So Provisioning		
ODUKP-X-L/RSn-a_A_So_MI_Active, k=1, 2, 3	True, false	False
ODUKP-X-L/RSn-b_A_So Provisioning		
ODUKP-X-L/RSn-b_A_So_MI_Active, k=1, 2, 3	True, false	False
ODUKP-X-L/RSn_A_Sk Provisioning		
ODUKP-X-L/RSn_A_Sk_MI_Active, k=1, 2, 3	True, false	False
ODUKP-X-L/RSn_A_Sk Reporting		
ODUKP-X-L/RSn_A_Sk_MI_AcVcPT, k=1, 2, 3	According to [ITU-T G.709]	Not applicable
ODUKP-X-L/VP_A_So Provisioning		
ODUKP-X-L/VP_A_So_MI_Active, k=1, 2, 3	True, false	False
ODUKP-X-L/VP_A_So_MI_CellDiscardActive, k=1, 2, 3	True, false	False
ODUKP-X-L/VP_A_So_MI_TPusgActive, k=1, 2, 3	True, false	False
ODUKP-X-L/VP_A_So_MI_GFCActive, k=1, 2, 3	True, false	False

Table 8-2 – Provisioning and reporting for adaptation functions

MI signal	Value range	Default value
ODUkP-X-L/VP_A_So_MI_VPI-KActive, k=1, 2, 3	True, false	False
ODUkP-X-L/VP_A_Sk Provisioning		
ODUkP-X-L/VP_A_Sk_MI_Active, k=1, 2, 3	True, false	False
ODUkP-X-L/VP_A_Sk_MI_CellDiscardActive, k=1, 2, 3	True, false	False
ODUkP-X-L/VP_A_Sk_MI_TPusgActive, k=1, 2, 3	True, false	False
ODUkP-X-L/VP_A_Sk_MI_VPIrange, k=1, 2, 3	0..4095	Not applicable
ODUkP-X-L/VP_A_Sk_MI_HECActive, k=1, 2, 3	True, false	False
ODUkP-X-L/VP_A_Sk_MI_GFCActive, k=1, 2, 3	True, false	False
ODUkP-X-L/VP_A_Sk_MI_DTDLuseEnabled, k=1, 2, 3	True, false	False
ODUkP-X-L/VP_A_Sk_MI_VPI-KActive, k=1, 2, 3	True, false	False
ODUkP-X-L/VP_A_Sk_MI_VPI-K_SAISActive, k=1, 2, 3	True, false	False
ODUkP-X-L/VP_A_Sk Reporting		
ODUkP-X-L/VP_A_Sk_MI_AcVcPT, k=1, 2, 3	According to [ITU-T G.709]	Not applicable
ODUkP-X-L/NULL_A_So Provisioning		
ODUkP-X-L/NULL_A_So_MI_Active, k=1, 2, 3	True, false	False
ODUkP-X-L/NULL_A_Sk Provisioning		
ODUkP-X-L/NULL_A_Sk_MI_Active, k=1, 2, 3	True, false	False
ODUkP-X-L/NULL_A_Sk Reporting		
ODUkP-X-L/NULL_A_Sk_MI_AcVcPT, k=1, 2, 3	According to [ITU-T G.709]	Not applicable
ODUkP-X-L/PRBS-a_A_So Provisioning		
ODUkP-X-L/PRBS-a_A_So_MI_Active, k=1, 2, 3	True, false	False
ODUkP-X-L/PRBS_A_Sk Provisioning		
ODUkP-X-L/PRBS_A_Sk_MI_Active, k=1, 2, 3	True, false	False
ODUkP-X-L/PRBS_A_Sk Reporting		
ODUkP-X-L/PRBS_A_Sk_MI_AcVcPT, k=1, 2, 3	According to [ITU-T G.709]	Not applicable
NOTE 1 – If the OTUkV has multiframe. NOTE 2 – x = 2G5, 10G, 10G3, 40G. NOTE 3 – $0 \leq x \leq 1.25G$. NOTE 4 – [p] = [1..n], when doing $n \times \text{ODUj_CP}$, or [p] = [1..m] when doing $m \times \text{ODUi_CP}$, respectively. NOTE 5 – [p] = [1..n], when doing $n \times \text{ODUj_CP}$.		

2.6) Updates to Table 8-4

Add new entries as shown below:

Table 8-4 – Provisioning and reporting for control functions

MI signal	Value range	Default value
ODUkT_TCMCM Provisioning		
ODUkT_TCMCM_MI_Level	1..6	Not applicable
ODUkT_TCMCM_MI_ModeSo	OPERATIONAL, MONITOR, TRANSPARENT	FFS
ODUkT_TCMCM_MI_ModeSk	OPERATIONAL, MONITOR, TRANSPARENT	FFS
<u>ODUkT_TCMCM_MI_TCM_Extension</u>	<u>Normal, Pass-through, Erase</u>	<u>Normal</u>
ODUkT_TCMCM Reporting		
ODUkT_TCMCM_MI_AcSTATSo[1..6]	According to clause 15.8.2.2.5 of [ITU-T G.709]	Not applicable
ODUkT_TCMCM_MI_AcSTATSk[1..6]	According to clause 15.8.2.2.5 of [ITU-T G.709]	Not applicable

2.7) Updates to Table 10-1

Add new entries as shown below:

Table 10-1 – PM management information

PM management information	OTN function
OTS _n _TT_Sk_MI_pN_DS-P OTS _n _TT_Sk_MI_pN_DS-O OTS _n _TT_Sk_MI_pF_DS-P OTS _n _TT_Sk_MI_pF_DS-O	OTS _n _TT_Sk
OMS _n _TT_Sk_MI_pN_DS-P OMS _n _TT_Sk_MI_pN_DS-O OMS _n _TT_Sk_MI_pF_DS-P OMS _n _TT_Sk_MI_pF_DS-O	OMS _n _TT_Sk
OPS _n _TT_Sk_MI_pN_DS-P	OPS _n _TT_Sk
OPSM/OTUk-a_A_Sk_MI_pFECcorrErr	OPSM/OTUk-a_A_Sk
OCh/OTUk-a_A_Sk_MI_pFECcorrErr	OCh/OTUk-a_A_Sk
OCh/OTUk-v_A_Sk_MI_pFECcorrErr	OCh/OTUk-v_A_Sk
OCh/OTUkV_A_Sk_MI_pFECcorrErr (Note 1)	OCh/OTUkV_A_Sk
OTUk_TT_Sk_MI_pN_EBC OTUk_TT_Sk_MI_pN_DS OTUk_TT_Sk_MI_pF_EBC OTUk_TT_Sk_MI_pF_DS OTUk_TT_Sk_MI_pBIAE OTUk_TT_Sk_MI_pIAE	OTUk_TT_Sk

Table 10-1 – PM management information

PM management information	OTN function
OTUkV_TT_Sk_MI_pN_EBC OTUkV_TT_Sk_MI_pN_DS OTUkV_TT_Sk_MI_pF_EBC OTUkV_TT_Sk_MI_pF_DS OTUkV_TT_Sk_MI_pBIAE (Note 2) OTUkV_TT_Sk_MI_pIAE (Note 2)	OTUkV_TT_Sk
ODUkP_TT_Sk_MI_pN_EBC ODUkP_TT_Sk_MI_pN_DS ODUkP_TT_Sk_MI_pF_EBC ODUkP_TT_Sk_MI_pF_DS ODUkP_TT_Sk_MI_pN_delay	ODUkP_TT_Sk
ODUkP/CBRx_A_So_MI_pN_PCS_BIP	ODUkP/CBRx_A_So
ODUkP/CBRx_A_Sk_MI_pN_PCS_BIP	ODUkP/CBRx_A_Sk
ODUkP/PRBS_A_Sk_MI_pN_TSE	ODUkP/PRBS_A_Sk
<u>ODUkP/ETH_A_Sk_MI_pFCSErrors</u>	<u>ODUkP/ETH_A_Sk</u>
ODUkT_TT_Sk_MI_pN_EBC ODUkT_TT_Sk_MI_pN_DS ODUkT_TT_Sk_MI_pF_EBC ODUkT_TT_Sk_MI_pF_DS ODUkT_TT_Sk_MI_pN_delay ODUkT_TT_Sk_MI_pBIAE ODUkT_TT_Sk_MI_pIAE	ODUkT_TT_Sk
ODUkTm_TT_Sk_MI_pN_EBC ODUkTm_TT_Sk_MI_pN_DS ODUkTm_TT_Sk_MI_pF_EBC ODUkTm_TT_Sk_MI_pF_DS ODUkTm_TT_Sk_MI_pBIAE ODUkTm_TT_Sk_MI_pIAE	ODUkTm_TT_Sk
ODUkP-X-L/PRBS_A_Sk_MI_pN_TSE	ODUkP-X-L/PRBS_A_Sk
OSx_TT_Sk_MI_pN_DS	OSx_TT_Sk
NOTE 1 – If the function performs FEC. NOTE 2 – In case of frame-synchronous mapping of ODUk client signal.	

SERIES OF ITU-T RECOMMENDATIONS

Series A	Organization of the work of ITU-T
Series D	General tariff principles
Series E	Overall network operation, telephone service, service operation and human factors
Series F	Non-telephone telecommunication services
Series G	Transmission systems and media, digital systems and networks
Series H	Audiovisual and multimedia systems
Series I	Integrated services digital network
Series J	Cable networks and transmission of television, sound programme and other multimedia signals
Series K	Protection against interference
Series L	Construction, installation and protection of cables and other elements of outside plant
Series M	Telecommunication management, including TMN and network maintenance
Series N	Maintenance: international sound programme and television transmission circuits
Series O	Specifications of measuring equipment
Series P	Terminals and subjective and objective assessment methods
Series Q	Switching and signalling
Series R	Telegraph transmission
Series S	Telegraph services terminal equipment
Series T	Terminals for telematic services
Series U	Telegraph switching
Series V	Data communication over the telephone network
Series X	Data networks, open system communications and security
Series Y	Global information infrastructure, Internet protocol aspects and next-generation networks
Series Z	Languages and general software aspects for telecommunication systems