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# **DSL Forum**

Working Text
WT-141
Draft
Version 3.0

# Protocol Independent Management Model for TR-101 Compliant Access Nodes

18 September 2006

Produced by Operations and Network Management Working Group

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## **Version History**

Version	Version Date	Version Editor	Changes
Number			
Version 1.0	27 February	Moti Morgenstern – ECI	First draft
	2006	Telecom	
Version 2.1	8 May 2006	Moti Morgenstern – ECI	Added Diagrams
		Telecom	Implemented changes
			agreed in Vienna and San
			Jose meetings
Version 3.0	<u>18</u>	Moti Morgenstern – ECI	Added support for
	<b>September</b>	Telecom	requirements in TR-101
	<u>2006,</u>		sections 6 and 7

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## **Summary**

This DSL Forum Technical Report provides the Element Management System's (EMS) interpretation of requirements included in DSL Forum Technical Report TR-101 that are applicable for managing an Access Node (AN). The document indicates the managed objects derived from TR-101, arranged according to their association with logical managed entities. The document is protocol independent, which means it does not refer to any particular management protocol between the EMS and the AN.

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## **DSL Forum Working Text WT-141**

## Protocol Independent Management Model for TR-101 Compliant Access Nodes

## 1 Purpose

The purpose of this DSL Forum Technical Report is defining the Element Management System's (EMS) interpretation of requirements included in DSL Forum Technical Report TR-101, focusing on management objects that are applicable for an Access Node (AN). The document indicates the managed objects derived from TR-101 and the associated source requirement number(s) in TR-101.

In addition, this document arranges the managed objects according to their association with logical managed entities. The purpose of this is simplifying the protocol dependent MIB development by defining a management model based on the relevant managed objects.

## 2 Scope

This DSL Forum Technical Report provides a management orientation to requirements included in TR-101 that are applicable for an Access Node. It derives from TR-101 the relevant managed objects and arranges them in the form of logical sets, called managed entities.

#### 2.1 Abbreviations

The following abbreviations apply for the purposes of this document:

AN	access node	MEP	maintenance end point		
BNG	broadband network gateway	NBP	network-side bridge port		
BRAS	broadband remote access server	PADT	PPPoE active discovery terminate		
DEI	drop eligibility indicator	PPPoE	PPP over Ethernet		
DHCP	dynamic host configuration	PVID	port VLAN identifier		
	protocol	OAM	operation, administration		
DP	drop precedence		and maintenance		
DSLAM	digital subscriber line access	QoS	quality of service		
	multiplexer	RG	routing gateway		
EAP	extensible authentication	RO	read-only		
	protocol	RW	read-write		
EFM	Ethernet in the first mile	TLS	transparent LAN service		
EMS	element management system	UBP	user-side bridge port		
GDT	(multicast) group description table	VID	VLAN identifier		

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VLAN virtual local area network

#### 2.2 Conventions

In this document, several words are used to signify the requirements of the specification. These words are often capitalized.

MUST This word, or the adjective "REQUIRED", means that the definition is an

absolute requirement of the specification.

MUST NOT This phrase means that the definition is an absolute prohibition of the

specification.

**SHOULD** This word, or the adjective "RECOMMENDED", means that there may

exist valid reasons in particular circumstances to ignore this item, but the full implications must be understood and carefully weighted before

choosing a different course.

MAY This word, or the adjective "OPTIONAL", means that this item is one of

an allowed set of alternatives. An implementation that does not include this option MUST be prepared to inter-operate with another

implementation that does include the option.

### 3 References

The following DSL Forum Technical Reports and other references contain provisions, which, through reference in this text, constitute provisions of this Technical Report. At the time of publication, the editions indicated were valid. All Technical Reports and other references are subject to revision; users of this Technical Report are therefore encouraged to investigate the possibility of applying the most recent edition of the Technical Report and other references listed below. A list of the currently valid DSL Forum Technical Reports is published at www.dslforum.org.

NOTE – The reference to a document within this Technical Report does not give it, as a stand-alone document, the status of a Technical Report.

[1] DSL Forum TR-101 (April 2006), Migration to Ethernet Based DSL Aggregation.

## 4 Access Node Managed Objects Model

The managed objects model in this specification is part of the comprehensive Access Node managed objects model as depicted in the following paragraphs.

The managed objects model diagrams in this specification use the notations that <u>Figure</u> 4-1 illustrates.

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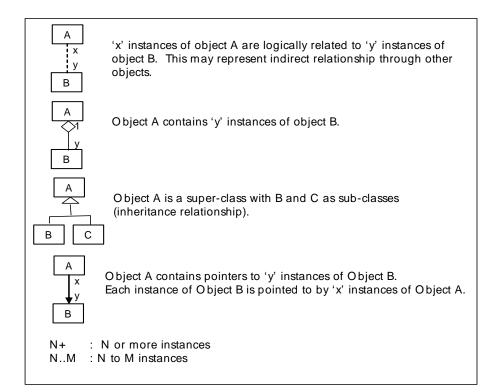
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**Figure 4-1**: Notations

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Figure 4-2: Access Node Managed Objects Model

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## 5 The Subset of TR-101 Requirements This TR Addresses

The DSL Forum Technical Report TR-101 outlines how an ATM aggregation network can be migrated to an Ethernet based aggregation network. As part of this, TR-101 document provides requirements for protocol translation and interworking, QoS, multicast, security, and OAM for a DSL aggregation network.

The requirements in TR-101 document refer to several kinds of systems. Those are the Access Node (AN), the Broadband Network Gateway (BNG), the Broadband Remote Access Server (BRAS), the Aggregation Switch, and the Routing Gateway (RG). This document, however, concentrates on requirements that are applicable to the AN only.

Also, the requirements in TR-101 document are of different nature. There are requirements that refer to configuration parameters, status parameters and performance indications which all are applicable for the EMS and reflected in this Technical Report. However, other requirements that refer to functional behavior of the various systems and to performance goals are beyond the scope of this document.

## **6** Applicable Access Node Managed Entities

The various managed objects that this document identifies in DSL Forum Technical Report TR-101 are divided into groups; each group is associated with a physical or logical managed entity.

The following managed entities SHOULD exist in the management model for TR-101 compliant access nodes:

- (1) **Access Node** This managed entity is the collection of all managed objects that their scope is the whole Access Node.
- (2) **Access Loop** This managed entity represents the collection of all managed objects that their scope is a DSL port (i.e, The CO side of the DSL line).
- (3) **Virtual Bridge Port** This managed entity represents the collection of all managed objects that their scope is <u>all kinds</u> of bridge port (i.e., User-Side and Network-Side Bridge Ports).
- (4) **User-Side Bridge Port** This managed entity represents the collection of all managed objects that their scope is <u>only</u> a user-side bridge port (i.e., and not a Network-Side Bridge Port).
- (5) **PVC Bundle** This managed entity represents the collection of all managed objects that their scope is specifying bundles of user-side bridge ports.
- (6) Network Interface This managed entity represents the collection of all managed objects that their scope is a network interface.

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(7) **Network-Side Bridge Port** - This managed entity represents the collection of all managed objects that their scope is <u>only</u> a network-side bridge port (i.e., and not a User-Side Bridge Port).

(8) **Filter** – This managed entity represents collection of all managed objects that their scope is a filter (e.g., Acceptable source MAC address, Destination MAC address, Ethertype, etc.).

**Filters List** – This managed entity represents a collection of multiple instances of a **Filter** managed entity.

- (9) **VLAN** This managed entity represents collection of all managed objects that their scope is an S-VLAN.
- (10) **VLAN Membership List** This managed entity represents collection of all managed objects that their scope is a VLAN Membership List for a virtual bridge port.
- (11) **Multicast Group Description Table** This managed entity represents collection of all managed objects that their scope is IP multicast groups for a multicast VLAN.
- (12) Multicast VLAN Statistics- This managed entity represents collection of all managed objects that their scope is multicast VLAN counters. This includes three categories:

Currently active hosts per each IP multicast group IGMP activity per each IGMP host (i.e., Access Loop) IGMP activity for the multicast VLAN

- (13) **Static Hosts Table** This managed entity represents collection of all managed objects that their scope is a list of IP Addresses associated with a user-side bridge port and an S-VLAN.
- (14) **Priority to Traffic Class Mapping Table** This managed entity is the collection of all managed objects that their scope is mapping an ingress priority to a traffic class and drop precedence.
- (15) **Queues Block Profile Table** This managed entity represents collection of all managed objects that their scope is port's queues.
- (16) **Circuit ID Syntax** This managed entity is the collection of all managed objects that their scope is configuring a flexible syntax for the DHCP option 82 Circuit ID field.
- (17) **Traffic Classification Table** This managed entity represents collection of all managed objects that their scope is a traffic classifier (e.g., ETHERTYPE filter, VLAN Priority filter, etc.).

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(18) **Ingress to Egress Priority Mapping Table** - This managed entity is the collection of all managed objects that their scope is mapping an ingress priority to egress priority.

(19) **MEP Table** - This managed entity represents collection of all managed objects that their scope is configuring a MEP.

### 6.1 External Access Node Managed Entities

In addition to the managed entities this document defines, there are few other managed entities to which this specification refers. The document only assumes they exist but does not specify them. An example for such a managed entity is the "DSL Line Configuration Profiles" table.

Although those managed entities are part of the comprehensive Access Node's managed objects model they are still considered external and beyond the scope of this document.

### 6.2 Diagram of Managed Entities in The Model

The diagram in Figure 6-1, depicts the relationships between the various managed entities in the model this document defines. The diagram also indicates associations with external managed entities.

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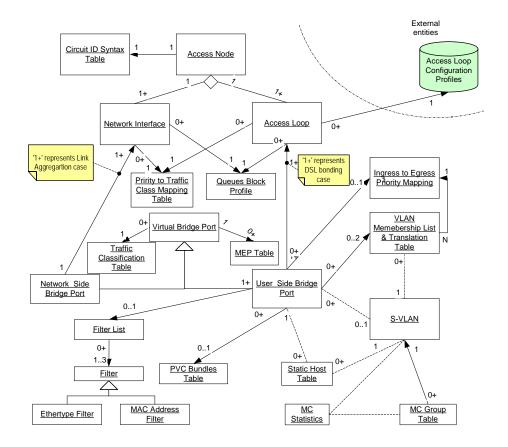


Figure 6-1: The Managed Entities Model Diagram

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## 7 The Access Node Managed Objects

The following paragraphs list the managed objects that SHOULD exist in the management model for TR-101 compliant access node. The managed objects that are directly derived from TR-101 requirements are complemented by objects that their purpose is either administrative (e.g., table row index) or producing an efficient management model. The managed objects are sorted according to the managed entity with which they are associated.

Each managed object is described with the following attributes:

The managed object is assigned an <u>Object Identifier</u>. This identifier only serves for the convenience of referring to the managed object in other parts of the document.

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❖ The managed object is assigned an <u>Object Name</u>. The Object Name is either explicitly specified by requirement(s) in DSL Forum TR-101 or is based on the content of those.

- ❖ One or more <u>Reference Requirements in DSL Forum TR-101</u> are listed for each managed object. It is possible however that the role of the managed object is not the same in all requirements that refer to it.
- ❖ The managed object is assigned a <u>Description</u>. This contains a short text that explains the meaning (or meanings) the related managed object has according to requirement(s) in DSL Forum TR-101.
- ❖ Several managed objects are assigned a *Comment*.

## 7.1 Access Node

The following table (<u>Table 7.1-1</u>) lists the managed objects under the Access Node managed entity as well as the source requirement(s) in TR-101.

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Object Reference Number	Object Name	Description	Reference in DSL Forum TR-101	Comments	
1.	Access Node ID (RW)	An alphanumeric string that identifies this AN	R-124, R-125	See <u>7.16</u> ,	- <
		(Optionally serves the Circuit ID syntax)			,
2.	Circuit ID	This object selects	<u>R-123</u> ,	See <u>7.16</u> ,	] _
	Syntax Type	between two alternatives	R-126,		Ļ
	(RW)	for the Circuit ID Syntax:			
		Use of the default syntax			
		specified in TR-101.			
		Use of the syntax			
		specified in the Circuit			
		ID Table.			
3.	ETHERTYPE	ETHERTYPE field for the	<u>R-8</u>	16 bits value;	_
	802.1ad (RW)	802.1ad tagging,		Default	
				value=0x88A8	

Table 7.1-1: Access Node Related Managed Objects

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#### 7.2 Access Loop

The following table (<u>Table 7.2-1</u>) lists the managed objects under the Access Loop managed entity as well as the source requirement(s) in TR-101.

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Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments
1.	Access Loop ID (index)	A number that uniquely identifies the Access		ifIndex

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Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments	Deleted: Version 3.0
2.	Configuration Profile (RW)	Loop within the Access Node  An index into the "DSL Line Configuration Profiles" database according to the Access Loop's DSL technology.	<u>R-343</u> ,	See Note 1	Deleted: R-343
3.	Priority to Traffic Class mapping Profile Index (RW)	Specifies the entry in the "Priority to Traffic Class Mapping Profiles" applicable for this Access Loop.  The number of traffic classes supported for this Access Loop MUST be at least 4 and SHOULD be at least 6.	R-45, R-46,	Number of queues is same	Deleted: R-45  Deleted: R-46
4.	Queues Setup Profile Index (RW)	Specifies the entry in the "Queues Block Profiles Table" applicable for this Access Loop.  The number of queues supported for this Access Loop MUST be at least 4 and SHOULD be at least 6.	R-49, R-50, R-51, R-52,	as number of -traffic classes	Deleted: R-49  Deleted: R-50  Deleted: R-51  Deleted: R-52
5.	Circuit ID (RW)	An alphanumeric string of up to 63 characters that is being used for the DHCP relay option 82 Circuit ID field.  If this attribute is set to NULL then the Access Node level Circuit ID syntax is utilized for this Access Loop.	R-119 R-122, R-123,	Default=NULL	Deleted: R-119 Deleted: R-122 Deleted: R-123
6.	Remote ID (RW)	An alphanumeric string of up to 63 characters that is being used for the DHCP relay option 82 Remote ID field.	R-113, R-120,	Default=NULL	Deleted: R-113  Deleted: R-120  Deleted: R-95
		1		Default=disabled	Deleted: 18 September 2006

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Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments
	(RW)	EAP for this Access Loop.		
8.	Slow Protocol Control (RW)	Controls (enables/disable) Slow Protocols for this Access Loop.	<u>R-95,</u>	_Default=disabled_
9.	Maximum Number of Simultaneous Multicast Groups (RW)	Defines the maximum number of multicast groups this Access Loop can simultaneously join.	<u>R-220</u>	
		iguration Profiles" database i		•

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Deleted: R-95

Its structure and attributes are beyond the scope of this document.

Table 7.2-1: Access Loop Related Managed Objects

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#### 7.3 Virtual Bridge Port

The following table (Table 7.4-1) lists the managed objects under the Virtual Bridge Port managed entity as well as the source requirement(s) in TR-101.

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Objec Referen Numbe	ce Object Name	Description	Reference in DSL Forum TR-101	Comments
1.	Virtual Bridge Port ID (index)	1 2		
2.	Traffic Classification Profile Index (RW)	Specifies an entry in the "Traffic Classification Table" applicable for this virtual bridge port.	<u>R-58</u> ,	

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Table 7.3-1: Virtual Bridge Port Related Managed Objects

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## **User-Side Bridge Port**

The following table (Table 7.4-1) lists the managed objects under the User-Side Bridge Port managed entity as well as the source requirement(s) in TR-101.

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Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments	Defeted. Version 5.0
1.	User-Side Virtual Bridge Port ID (index)	An index that uniquely identifies the user-side virtual bridge port within this Access Node		Equivalent to Virtual Bridge Port ID	
2.	PVC Bundle ID (RW)	A nonzero number in this attribute identifies a PVC Bundle in which this User-Side Virtual Bridge Port is a member.	<u>R-59</u> ,	Default=0 (i.e., not a member in a PVC Bundle)	Deleted: R-59
3.	Circuit ID (RW)	An alphanumeric string of up to 63 characters that is being used for the DHCP relay option 82 Circuit ID field.  If this attribute is set to NULL then the Access Loop level (if not NULL) or Access Node level Circuit ID syntax is utilized for this User-Side Bridge Port.	R-112, R-119, R-122,	Default=NULL	Deleted: R-112 Deleted: R-119 Deleted: R-122
4.	Remote ID (RW)	An alphanumeric string of up to 63 characters that is being used for the DHCP relay option 82 Remote ID field.  If this attribute is set to NULL then the Access Loop level is utilized for this User-Side Bridge Port.	R-113, R-120,	Default=NULL	Deleted: R-113  Deleted: R-120
5.	Auto-Sense Control (RW)	Specifies whether or not the Auto-Sense of protocol, encapsulation and multiplexing mode should be active on this Access Loop	<u>R-62, </u>		Deleted: R-62
6.	Acceptable Frame Type(s) (RW)	Acceptable frame type may be either  VLAN Tagged Frames Only, Untagged/Priority-	<u>R-9,</u>	Default=?;	Deleted: R-9  Deleted: 18 September 2006  Formatted: Font: 12 pt

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Object Managed Object Name  Reference in DSL Forum TR-101  Tagged Frames only, or Admit All Frames.  Is TLS active for the associated UBP  8. Filters List List Table applicable for this bridge port. The list of filters includes filtering, and Destination MAC Address filtering Source MAC Address filtering Course MAC addresses addresses addresses addresses addresses (armed from this bridge port.  10. Primary VLAN Membership List (VML) Index (RW)  Secondary VLAN Membership List (VML) Index (RW)  11. Secondary VLAN Membership List (VML) Index (RW)  12. PVID (RW)  Default VLAN ID for untagged frames  Posterior of the primary VLAN membership List (VAN) ID for untagged frames  Default VLAN ID for untagged frames  Reference in DSL. Forum TR-101  Re10. On/Off  Re20. See 7.8, 7.8.4  Deleted: R-10  Deleted: R-20  Deleted: R-20  Deleted: R-30  Deleted: R-30  Deleted: R-30  Deleted: R-30  Deleted: R-30  Deleted: R-31  Deleted: R-32  Deleted: R-31  Deleted: R-32  Deleted: R-31  Deleted: R-31  Deleted: R-32  Deleted: R-32  Deleted: R-31  Deleted: R-32  De	0.1				I ~		Deleted: Version 3.0
Tagged Frames only, or Admit All Frames			Description		Comments		
Tagged Frames only, or Admit All Frames.  7. TLS function (RW)  8. Filters List Specifies the entry in the Index (RW)  9. Maximum Listrope filtering. Source MAC Address filtering and Destination MAC Listroper filtering.  9. Maximum Naximum number of learned addresses (RW)  10. Primary VLAN Membership List (VML) Index (RW)  11. Secondary VLAN Membership List (VML) Index (RW)  12. PVID (RW)  13. PVID (RW)  14. PVID (RW)  15. PVID (RW)  16. PVID (RW)  17. TLS function (Index (RW)  18. PLS active for the associated UBP  18. P.1 (NO) On/Off  R-26. Sec 7.8, 7.8.4  R-27. R-94.  R-29. Sec 7.8, 7.8.4  Deleted: R-26  Deleted: R-27  Deleted: R-27  Deleted: R-91  Deleted: R-91  Deleted: R-92  Deleted: R-92  Deleted: R-93  Deleted: R-93  Deleted: R-93  Deleted: R-93  Deleted: R-10  Deleted: R-10  Deleted: R-10  Deleted: R-26  Deleted: R-27  Deleted: R-27  Deleted: R-30  Deleted: R-31  Deleted: R-30  Deleted: R-31  Deleted: R-32  Deleted: R-32  Deleted: R-30  Deleted: R-32  Deleted: R-30  Deleted: R-32  Deleted: R-30  Deleted: R-32  Deleted: R-30  Deleted: R-32  Dele		Object Name					
7. TLS function (RW) associated UBP applicable for this bridge port. The list of filters includes filters for:  Ethertype filtering. Source MAC Address filtering and Destination MAC Addresses aladresses aladresses learned from this bridge (RW) port  10. Primary VLAN Membership List (VML) Index (RW)  11. Secondary Specifies the primary entry in the "VLAN Membership List (VML) Index (RW)  11. Secondary Specifies an optional VLAN secondary entry in the Membership List (VML) Index (RW)  11. Secondary Specifies an optional VLAN secondary entry in the Membership List (VML) Index (RW)  12. PVID (RW) Default VLAN ID for untarged frames  13. PVID (RW) Default VLAN ID for untarged frames  14. Doleted: R-10  R-10, On/Off  R-26, Sec 7.8. 7.8.4  R-26, Sec 7.8. 7.8.4  Deleted: R-27  Deleted: R-30  Deleted: R-30  Deleted: R-30  Deleted: R-31  Deleted: R-30  Deleted: R-10  Deleted: R-31  Deleted: R-30  Deleted: R-31  Deleted: R-31  Deleted: R-31  Deleted: R-31  Deleted: R-31  Deleted: R-32  Deleted: R-31  Deleted: R-31  Deleted: R-32  Deleted: R-32  Deleted: R-31  Deleted: R-32  Deleted: R-32  Deleted: R-32  Deleted: R-32  Deleted: R-32  Deleted: R-32  Deleted: R-3	Titalibei						
7. TLS function (RW) associated UBP associated UBP  8. Filters List Index (RW)			Tagged Frames only, or				
RW) associated UBP  8. Filters List List Table applicable for this bridge port. The list of filters includes filters for:  Ethertype filtering. Source MAC Address filtering and Destination MAC Address filtering and Destina			Admit All Frames.				
8. Filters List Index (RW)    Filters List Table*     Filters List Table*     Applicable for this bridge port. The list of filters includes filters for: Ethertype filtering. Source MAC Address filtering and Destination MAC Address filtering and Destination MAC Address filtering and Destination MAC Addresses learned from this bridge port    10. Primary VLAN Membership List (VML) Index (RW)	7.			<u>R-10</u>	On/Off		Deleted: R-10
Index (RW)  Filters List Table' applicable for this bridge port. The list of filters includes filters for: Ethertype filtering. Source MAC Address filtering and Destination MAC Address filtering and Destination MAC Address filtering addresses learned from this bridge (RW)  10. Primary VLAN entry in the "VLAN Membership List (VML) Index (RW)  11. Secondary VLAN secondary entry in the Membership List (VML) Index (RW)  11. Secondary VLAN secondary entry in the Membership List (VML) Index (RW)  12. PVID (RW)  13. PVID (RW)  14. Deleted: 7.8.  15. Deleted: 7.8.  16. Deleted: 7.8.  16. Deleted: 7.8.  17. R-94  18. P94  18. P94  19. Deleted: 7.8.  10. Deleted: 8.94  10. Deleted: 8.92  11. Deleted: 8.93  12. Deleted: 7.8.  13. Deleted: 8.94  14. Deleted: 8.93  15. Deleted: 8.93  16. Deleted: 8.93  17. Deleted: 8.93  18. P94  19. Deleted: 8.94  19. Deleted: 8.94  10. Deleted: 8.93  10. Deleted: 8.93  11. Deleted: 8.93  12. Deleted: 8.93  13. Deleted: 8.91  14. Deleted: 8.91  15. Deleted: 8.91  16. Deleted: 8.91  17. Deleted: 8.11  18. Deleted: 8.11  18. Deleted: 8.10  19. Deleted: 8.11  19. Deleted: 8.11  10. Deleted: 8.31  10. Deleted: 8.31  10. Deleted: 8.31  11. Deleted: 8.31  12. PVID (RW)  13. Deleted: 8.31  14. Deleted: 8.31  15. Deleted: 8.31  16. Deleted: 8.31  17. Deleted: 8.31  18. Deleted: 8.31  19. Deleted: 8.31  19. Deleted: 8.31  10. Deleted: 8.31  10. Deleted: 8.31  10. Deleted: 8.31  11. Deleted: 8.31  12. Deleted: 8.32  13. Deleted: 8.31  14. Deleted: 8.31  15. Deleted: 8.31  16. Deleted: 8.31  17. Deleted: 8.31  18. Deleted: 8.22  18. Deleted: 8.22  18. Deleted: 8.82  19. Deleted: 8.82  19. Deleted: 8.82  19. Deleted: 8.82  19. Deleted: 8.84  19. D							
applicable for this bridge port. The list of filters includes filters for: Ethertype filtering. Source MAC Address filtering and Destination MAC Address filtering and Destination MAC Address filtering and Destination MAC Addresses addresses addresses learned from this bridge port  10. Primary VLAN entry in the "VLAN Membership List (VML) Index (RW)  11. Secondary VLAN embership List (VML) Index (RW)  11. Secondary VLAN embership List (VML) Index (RW)  12. PVID (RW)  Default VLAN ID for untageged frames.  R.94  R.94  Deleted: R.93  Deleted: R.92  Deleted: R.92  Deleted: R.92  Deleted: R.92  Deleted: R.92  Deleted: R.92  Deleted: R.93  Deleted: R.92  Deleted: R.93  Deleted: R.92  Deleted: R.93  Deleted: R.92  Deleted: R.93  Deleted:	8.				See <u>7.8</u> , <u>7.8.4</u>	57-	Deleted: R-26
port. The list of filters includes filters for: Ethertype filtering. Source MAC Address filtering, and Destination MAC Address filtering  9. Maximum Maximum number of learned source MAC addresses learned from this bridge (RW) Port  10. Primary VLAN Membership List (VML) Index (RW)  11. Secondary VLAN Membership List (VML) Index (RW)  11. Secondary VLAN Membership List (VML) Index (RW)  12. PVID (RW)  Default VLAN ID for untagged frames    Deleted: R-97		Index (RW)					Deleted: 7.8
includes filters for: Ethertype filtering, Source MAC Address filtering and Destination MAC Address filtering  9. Maximum Naximum number of learned source MAC addresses learned from this bridge (RW) port  10. Primary VLAN Membership List (VML) Index (RW)  11. Secondary VLAN Membership List (VML) Index (RW)  12. PVID (RW)  Default VLAN ID for untagged frames  includes filters for: Ethertype filtering, Source MAC Address filtering R-92 R-93  The VML table handles the "VLAN translation" and "Ingress to egress priority mapping" functions per VLAN in the Membership List "VLAN ID the Membership List "VLAN ID for untagged frames  11. Secondary VLAN Membership List (VML) Index (RW)  Default VLAN ID for untagged frames  Includes R-94  Deleted: R-94  Deleted: R-92  Deleted: R-93  Deleted: R-93  Deleted: R-92  The VML table "VLAN translation" and "Ingress to egress priority mapping" functions per VLAN in the "VLAN ID beleted: R-11  Deleted: R-11  Deleted: R-11  Deleted: R-11  Deleted: R-11  Deleted: R-10  Deleted: R-10  Deleted: R-31  Deleted: R-31  Deleted: R-31  Deleted: R-10  Deleted: R-31  Deleted: R-32  Deleted: R-32  Deleted: R-31  Deleted: R-32  Deleted: R-31  Deleted: R-32  D				<u>R-94,</u>			Deleted: 7.8.4
Ethertype filtering. Source MAC Address filtering and Destination MAC Address filtering Maximum number of learned source MAC addresses addresses addresses learned from this bridge (RW) port  10. Primary Specifies the primary entry in the "VLAN Membership List (VML) Index (RW)  11. Secondary VLAN Membership List (VML) Index (RW)  11. Secondary VLAN Membership List (VML) Index (RW)  11. Secondary VLAN Membership List (VML) Index (RW)  12. PVID (RW)  Default VLAN ID for untagged frames  Ethertype filtering. Source MAC Address filtering  R-92.  R-92.  The VML table handles the "VLAN translation" and "Ingress to egress priority mapping" functions per VLAN ID in the membership list. R-17. R-19. R-11. Secondary VLAN ID in the membership list. MAY be used for efficiently building the VLANs membership list from a basic list and a complementary list.  Deleted: R-92  Deleted: R-93  Deleted: R-92  The VML table handles the "VLAN ID in the membership list. membership list. membership list from a basic list and a complementary list.  Deleted: R-10  Deleted: R-11  Deleted: R-10  Deleted: R-11  Deleted: R-10  Deleted: R-11  Deleted: R-10  Deleted: R-10  Deleted: R-11  Deleted: R-10  Deleted: R-20  Delet							Deleted: R-27
Source MAC Address filtering, and Destination MAC Address filtering  9. Maximum Maximum number of source MAC addresses learned from this bridge (RW) port  10. Primary VLAN Membership List (VML) Index (RW)  11. Secondary VLAN Membership List (VML) Index (RW)  Specifies an optional willing functions per VLAN In the Membership List (VML) Index (RW)  11. Secondary VLAN Membership List (VML) Index (RW)  Specifies an optional willing functions per VLAN In the Membership List (VML) Index (RW)  Specifies an optional willing functions per VLAN In the Membership List (VML) Index (RW)  Specifies an optional willing functions per VLAN In the Membership List (VML) Index (RW)  Specifies an optional willing functions per VLAN is membership list form a basic list and a complementary list.  Deleted: R-92  Deleted: R-93  Deleted: R-93  Deleted: R-93  Deleted: R-11  Deleted: R-11  Deleted: R-11  Deleted: R-12  Deleted: R-13  Deleted: R-13  Deleted: R-13  Deleted: R-31  Deleted: R-31  Deleted: R-31  Deleted: R-31  Deleted: R-32  Deleted: R-22  Deleted: R-30  Deleted: R-17  Deleted: R-10  D							Deleted: R-94
filtering , and Destination MAC Address filtering  9. Maximum Maximum number of source MAC addresses learned from this bridge (RW) port  10. Primary VLAN Experifies an optional VLAN Expendentship List (VML) Index (RW)  11. Secondary Specifies an optional wordship List (VML) Index (RW)  11. Secondary VLAN Experifies an optional Secondary entry in the WLAN Experifies Experifies an optional List (VML) Index (RW)  12. PVID (RW) Default VLAN ID for untage ged frames  Poeleted: R-92 Deleted: R-93  Poeleted: R-93  The VML table handles the "VLAN It translation" and "Ingress to egress priority mapping" functions per VLAN ID in the membership list. R-17  R-29. The secondary Experimental Secondary entry in the WLAN Experimental Secondary entry in the WLAN Experimentary list.  Deleted: R-93  Deleted: R-93  Deleted: R-93  Deleted: R-93  Deleted: R-31  Deleted: R-32  Deleted: R-31  Deleted: R-31  Deleted: R-31  Deleted: R-32  Deleted: R-31  Deleted:			• • • • • • • • • • • • • • • • • • • •				
9. Maximum Maximum number of learned source MAC addresses addresses (RW) port  10. Primary VLAN entry in the "VLAN Membership List (VML) Index (RW)  11. Secondary VLAN embership List (VML) Index (RW)  11. Secondary VLAN embership List (VML) Index (RW)  12. PVID (RW)  Default VLAN ID for untagged frames  Poeleted: R-93  R-92 R-93  The VML table handles the "VLAN translation" and "Ingress to egress priority mapping" functions per VLAN ID in the R-16, membership list. R-17, R-29, The secondary list MAY be R-31, used for efficiently building the VLANs membership list from a basic list and a complementary list.  PVID (RW)  Default VLAN ID for untagged frames							
9. Maximum number of learned source MAC addresses learned from this bridge (RW) 10. Primary VLAN entry in the "VLAN Membership List (VML) Index (RW)  11. Secondary VLAN embership List (VML) Index (RW)  11. Secondary VLAN embership List (VML) Index (RW)  12. PVID (RW)  Address filtering Maximum number of source MAC addresses learned from this bridge port  13. Primary VLAN entry in the "VLAN Membership List" applicable for this UBP.  14. Secondary VLAN Membership List (VML) Index (RW)  15. Point (RW)  16. Point (RW)  16. Point (RW)  17. Point (RW)  18. Point (RW)  18. Point (RW)  18. Point (RW)  19. Deleted: R-93  19. The VML table handles the "VLAN translation" and "Ingress to egress priority mapping" functions per VLAN ID in the R-16.  18. Point (RW)  19. Deleted: R-93  19. The VML table handles the "VLAN ID in the "VLAN ID in the R-16.  19. Point (RW)  10. Primary VLAN Membership List" applicable for this UBP.  11. Secondary entry in the "VLAN Membership List" applicable for this UBP.  12. PVID (RW)  13. Deleted: R-92  14. Deleted: R-93  15. Deleted: R-93  16. Deleted: R-93  17. Deleted: R-93  18. Point (RW)  18. Point (RW)  19. Deleted: R-93  19. Deleted: R-93  10. Primary (RW)  10. Primary (RW)  11. The VML table handles the "VLAN ID in the "VLAN ID in the "VLAN ID in the R-16.  18. Point (RW)  19. Deleted: R-93  19. Deleted: R-93  10. Deleted: R-93  10. Deleted: R-93  11. Deleted: R-93  12. Deleted: R-93  13. Deleted: R-93  14. Deleted: R-93  15. Deleted: R-93  16. Deleted: R-93  16. Deleted: R-93  17. Deleted: R-93  18. Deleted: R-93  19. Deleted: R-93  19. Deleted: R-93  10. Deleted: R-93  10. Deleted: R-93  10. Deleted: R-93  10. Deleted: R-93  11. Deleted: R-93  12. Deleted: R-93  13. Deleted: R-93  14. Deleted: R-93  15. Deleted: R-93  16. Deleted: R-93  16. Deleted: R-93  16. Deleted: R-93  17. Deleted: R-93  18. Deleted: R-93  19. D			_				
9. Maximum learned source MAC addresses addresses learned from this bridge (RW) port  10. Primary VLAN Membership List (VML) Index (RW)  11. Secondary VLAN secondary entry in the Membership List (VML) Index (RW)  11. Secondary VLAN Membership List (VML) Index (RW)  12. PVID (RW)  13. PVID (RW)  14. Default VLAN ID for untagged frames							
learned addresses learned from this bridge (RW)  10. Primary VLAN entry in the "VLAN Membership List (VML) Index (RW)  11. Secondary VLAN Membership List (VML) Index (RW)  11. Secondary VLAN Membership List (VML) Index (RW)  11. Secondary VLAN Membership List (VML) Index (RW)  12. PVID (RW)  13. Primary Specifies the primary entry in the "VLAN Membership List" applicable for this UBP.  14. Secondary Specifies an optional secondary entry in the "VLAN Membership List (VML) Index (RW)  15. PVID (RW)  16. Primary Specifies the primary entry in the "VLAN ID in the membership list.  16. R-17, R-29, R-30, Ist MAY be Beleted: R-16  17. Poleted: R-93  18. PVID (RW)  18. PVID (RW)  19. Default VLAN ID for untagged frames  10. Primary Specifies the primary entry in the "VLAN translation" and "Ingress to egress priority mapping" functions per VLAN ID in the membership list.  19. Poleted: R-93  10. Primary VLAN ID in the "VLAN ID in the membership list.  10. Primary VLAN ID in the "VLAN ID in the membership list.  11. Secondary entry in the "VLAN ID for efficiently building the VLANs membership list and a complementary list.  12. PVID (RW)  13. Deleted: R-93  14. Deleted: R-93  15. Deleted: R-93  16. Deleted: R-11  17. Deleted: R-16  18. Poleted: R-30  19. Deleted: R-31  19. Deleted: R-31  10. Deleted: R-31  11. Deleted: R-30  12. Deleted: R-31  13. Deleted: R-31  14. Deleted: R-18  15. Deleted: R-19  16. Deleted: R-10  17. Deleted: R-10  18. Deleted: R-11  19. Deleted: R-10  19. Deleted: R-11  19. Deleted: R-10  10. Deleted: R-10  10. Deleted: R-10  11. Deleted: R-10  12. PVID (RW)  13. Deleted: R-10  14. Deleted: R-10  15. Deleted: R-10  16. Deleted: R-10  17. Deleted: R-10  18. Deleted: R-10  19. Deleted	9.	Maximum	·	R-92			Deleted: R-92
(RW) port  10. Primary Specifies the primary entry in the "VLAN Membership List (VML) Index (RW)  11. Secondary VLAN Secondary entry in the Membership List (VML) Index (RW)  11. Secondary VLAN Membership List (VML) Index (RW)  12. PVID (RW) Default VLAN ID for untagged frames		learned	source MAC addresses				Deleted: R-93
10. Primary VLAN Membership List (VML) Index (RW)  11. Secondary VLAN Membership List (VML) Index (RW)  11. Secondary VLAN Membership List (VML) Index (RW)  11. Secondary VLAN Secondary vLAN Membership List (VML) Index (RW)  12. PVID (RW)  13. Primary VLAN Membership List (VML) Index (RW)  14. Secondary Specifies an optional secondary entry in the Membership List (VML) List" applicable for this UBP.  15. PVID (RW)  16. The VML table handles the "VLAN translation" and "Ingress to egress priority mapping" functions per VLAN ID in the membership list. R-17. R-29. R-30. list MAY be used for efficiently building the VLANs membership list from a basic list and a complementary list.  16. PVID (RW)  17. Deleted: R-10 Deleted: R-30 Deleted: R-31 Deleted: R-31 Deleted: R-31 Deleted: R-32 Deleted: R-		addresses	learned from this bridge				
VLAN Membership List (VML) Index (RW)  11. Secondary VLAN Membership List (VML) Index (RW)  Specifies an optional vLAN Membership List (VML) Index (RW)  Specifies an optional secondary entry in the Membership List (VML) Index (RW)  12. PVID (RW)  Default VLAN ID for untagged frames  entry in the "VLAN Membership List" applicable for this UBP.    handles the "VLAN translation" and "Ingress to egress priority mapping" functions per VLAN ID in the membership list.    R-11,		(RW)	-				
Membership List (VML) Index (RW)  11. Secondary VLAN Membership List (VML) Index (RW)  Specifies an optional secondary entry in the Membership List (VML) Index (RW)  Membership List (VML) Index (RW)  Deleted: R-11  R-19 R-29 R-30 Iist MAY be used for efficiently building the VLANs membership list from a basic list and a complementary list.  Deleted: R-11  Deleted: R-10 Deleted: R-30 Deleted: R-31  Deleted: R-32 Deleted: R-22 Deleted: R-20 Deleted: R-31	10.						
List (VML) Index (RW)  applicable for this UBP.  translation" and "Ingress to egress priority mapping" functions per VLAN ID in the R-16. R-11.  Secondary VLAN Membership List (VML) Index (RW)  Specifies an optional secondary entry in the "VLAN Membership List" applicable for this UBP.  The secondary R-30. R-31. R-29. R-31. R-29. R-31. Beleted: R-11 Deleted: R-11 Deleted: R-10 Deleted: R-11 Deleted: R-17 Deleted: R-17 Deleted: R-30 Deleted: R-31							
Index (RW)  Index							
egress priority mapping" functions per VLAN ID in the R-16 membership list.  Secondary VLAN secondary entry in the Membership List (VML) Index (RW)  Index (RW)  Specifies an optional secondary entry in the Membership List" applicable for this UBP.  Specifies an optional secondary entry in the WLAN Membership List" applicable for this UBP.  R-30 Ist MAY be Used for efficiently building the VLANs membership list from a basic list and a complementary list.  Deleted: R-11 Deleted: R-16 Deleted: R-29 Deleted: R-30 Deleted: R-31 Delet		` ,	applicable for this UBP.				
mapping" functions per VLAN ID in the membership list.  R-17.  11. Secondary VLAN Secondary VLAN Membership List (VML) Index (RW)  Specifies an optional secondary entry in the "VLAN Membership List" applicable for this UBP.  The secondary R-30. R-31.  The secondary R-30. R-31.  The secondary R-30. Beleted: R-16  Deleted: R-16  Deleted: R-17  Deleted: R-29 Deleted: R-30 Deleted: R-31  Deleted: R-30 Deleted: R-31  Deleted: R-31  Deleted: R-31  Deleted: R-29 Deleted: R-30 Deleted: R-31  Deleted: R-31  Deleted: R-31  Deleted: R-22 Deleted: R-30 Deleted: R-31		ilidex (KW)			_		
functions per VLAN ID in the membership list.  11. Secondary VLAN Specifies an optional secondary entry in the Membership List (VML) Index (RW)  12. PVID (RW)  Poeleted: R-11  R-11, R-16, R-17  R-29, The secondary list MAY be used for efficiently building the VLANs membership list from a basic list and a complementary list.  Poeleted: R-16  Deleted: R-17  Deleted: R-29  Deleted: R-30  Deleted: R-30  Deleted: R-31  Deleted: R-30  Deleted: R-31  Deleted: R-29  Deleted: R-29  Deleted: R-29  Deleted: R-29  Deleted: R-20  Deleted: R-20  Deleted: R-20  Deleted: R-20  Deleted: R-21  Deleted: R-20  Deleted: R-30  Deleted: R-20  Deleted: R-30  Deleted: R-20  Deleted: R-30  Deleted: R-30  Deleted: R-30  Deleted:							
11. Secondary VLAN Secondary vLAN Membership List (VML) List" applicable for this Index (RW)  12. PVID (RW)  Poleted: R-11  R-16, membership list. R-17, R-29, The secondary R-30, list MAY be used for efficiently building the VLANs membership list from a basic list and a complementary list.  R-11, VLAN ID in the membership list. R-17, R-29, The secondary list MAY be used for efficiently building the VLANs membership list from a basic list and a complementary list.  R-11, VLAN ID in the membership list. R-12, PVID (RW) Deleted: R-16  Deleted: R-16  Deleted: R-17  Deleted: R-30  Deleted: R-31  Deleted: R-29  Deleted: R-29  Deleted: R-20  Deleted: R-20  Deleted: R-22  Deleted: R-22  Deleted: R-22  Deleted: R-22  Deleted: R-22  Deleted: R-22  Deleted: R-20  Deleted: R-20  Deleted: R-17  Deleted: R-20  Deleted: R-17  Deleted: R-20							
11. Secondary VLAN Specifies an optional secondary entry in the Membership List (VML) Index (RW) UBP.  12. PVID (RW) Default VLAN ID for untagged frames  Specifies an optional secondary entry in the "VLAN Membership List MAY be used for efficiently building the VLANs membership list from a basic list and a complementary list.  R-29. The secondary PR-30. Deleted: R-29  Deleted: R-30  Deleted: R-30  Deleted: R-31  Deleted: R-29  Deleted: R-30  Deleted: R-31  Deleted: R-29  Deleted: R-20  Deleted: R-31				R-11	1		Deleted: R-11
11. Secondary VLAN secondary entry in the Membership List (VML) Index (RW)  12. PVID (RW)  Specifies an optional secondary entry in the "VLAN Membership List" applicable for this UBP.  Secondary entry in the "VLAN Membership List" applicable for this UBP.  R-29, R-30, Ist MAY be used for efficiently building the VLANs membership list from a basic list and a complementary list.  PVID (RW)  Deleted: R-29  Deleted: R-30  Deleted: R-31  Deleted: R-29				R-16,	membership list.		Deleted: R-16
VLAN Membership List (VML) Index (RW)  We will be secondary entry in the "VLAN Membership List" applicable for this UBP.  R-30 R-31 R-30 R-31 R-30 R-31 R-30 Deleted: R-30 Deleted: R-31  PVID (RW)  Deleted: R-31  Deleted: R-22 Deleted: R-20							Deleted: R-17
Membership List (VML) Index (RW)  WLAN Membership List" applicable for this UBP.  R-31,  used for efficiently building the VLANs membership list from a basic list and a complementary list.  Deleted: R-30  Deleted: R-31	11.						Deleted: R-29
List (VML) List" applicable for this UBP.  List (VML) List" applicable for this UBP.  efficiently building the VLANs membership list from a basic list and a complementary list.  Deleted: R-31  Deleted: R-31  Deleted: R-31  Deleted: R-31  Deleted: R-31							Deleted: R-30
Index (RW)  UBP.  building the VLANs membership list from a basic list and a complementary list.  Deleted: R-22  Deleted: 18 September 2006				<u>R-31</u>			Deleted: R-31
VLANs membership list from a basic list and a complementary list.  Deleted: R-22  Deleted: R-22  Deleted: 18 September 2006		List (VML)	List applicable for this				
membership list from a basic list and a complementary list.  12. PVID (RW) Default VLAN ID for untagged frames    R-22   Deleted: R-22   Deleted: 18 September 2006		muex (KW)	UDF.				
from a basic list and a complementary list.  Deleted: R-22  Deleted: R-22  Deleted: 18 September 2006							
and a complementary list.  12. PVID (RW) Default VLAN ID for untagged frames  Deleted: R-22  Deleted: 18 September 2006							
12. PVID (RW) Default VLAN ID for untagged frames list. Deleted: R-22 Deleted: 18 September 2006							
12. PVID (RW) Default VLAN ID for untagged frames PVID (RW) Default VLAN ID for Untagged frames					complementary		
12. PVID (RW) Default VLAN ID for untagged frames PVID (RW) Deleted: 18 September 2006					list.		Deleted: R-22
untagged trames	12.	PVID (RW)		<u>R-22</u>			
, 4 rormatted: Font: 17 bi			untagged frames			/	Formatted: Font: 12 pt

Formatted: Font: 12 pt, German (Germany)

Deleted: Version 3.0

Object Reference	Managed Object Name	Description	Reference in DSL	Comments	
Number	Object Name		Forum TR-101		
		TLS Function=On:	1 K-101		
		Ignored			
13.	Default	Default priority for	<u>R-14</u> ,		 Deleted: R-14
	Priority (RW)	untagged frames.	<u>R-17,</u>		 Deleted: R-17
			<u>R-22</u>		 Deleted: R-22
	a 1115 (511)		<u>R-31</u>		 Deleted: R-31
14.	S-VID (RW)	TLS Function=On: TLS S-VID	<u>R-12</u>		 Deleted: R-12
		Configured S-VID	<u>R-21</u>		 Deleted: R-21
15.	S-Priority (RW)	Configured S-Priority value	<u>R-21</u>		 Deleted: R-21
16.	Ingress to	Specifies the entry in the	R-14.	Note that	 Deleted: R-14
	Egress Priority	"Ingress to Egress Priority	R-20	copying the	 Deleted: R-20
	Mapping -	Mapping Table"		priority from the	
	Profile Index	applicable for this UBP.		ingress C-tag to	
	(RW)	This mapping applies to		the egress S-tag	
		the TLS portion in TLS		can be achieved	
		UBP and to the priority		by a trivial	
		tagged frames in non-TLS UBP.		mapping table.	
17.	Non-Tagged	If Acceptable Frame Type	<u>R-19</u>		 Deleted: R-19
	Frames	is either			
	Handling	"Untagged/Priority-tagged			
	(RW)	Frames Only" or "Accept			
		All Frames", specifies the			
		method of handling			
		untagged frames.			
		The method can be:			
		Add S-tag, or			
		Add both S-tag and C-			
		tag			

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Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments	
18.	L2 DHCP	Defines whether or not	R-96,	Default=enabled	Deleted: R-96
	Relay Agent Control (RW)	Layer 2 DHCP Relay Agent is enabled for the related UBP. Assuming the function is enabled for this port, it applies, in the context of this port, for each S-VLAN in which it is a member and provided the same function is enabled	<u>R-97</u>		Deleted: R-97
19.	Loop Characteristics Insertion Control (RW)	for that S-VLAN.  Defines whether or not the Access Node should insert the access loop characteristics via its PPPoE intermediate agent and/or via its layer2 DHCP Relay agent for the related UBP.	<u>R-127</u> ,		Deleted: R-127
20.	Upstream Ethernet OAM Message Rate Limit (RW)	The rate limit (packets per seconds) of Ethernet OAM messages arriving on the related UBP. Setting the parameter to zero (0) means completely filtering the Ethernet OAM messages from the related UBP	R-267, R-268,		Deleted: R-267 Deleted: R-268

## 7.5 PVC Bundle

The following table (<u>Table 7.5-1</u>) lists the managed objects under the PVC Bundle managed entity as well as the source requirement(s) in TR-101.

Deleted: Table 7.5-1

Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments
1.	PVC Bundle ID (index)	A first index. A number that uniquely identifies a PVC Bundle within the	<u>R-59</u>	

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Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments
		Access Node.		
2.	Ethernet Priority Value (index)	A second index that specifies an Ethernet priority in the context of this PVC Bundle.	<u>R-59</u>	
3.	User-Side Virtual Bridge Port ID (RW)	Identifies a user-side virtual bridge port within this Access Node that is allowed to use the Ethernet Priority Value associated with this row.	<u>R-59</u> ,	All members in the same PVC bundle MUST relate to the same Access Loop.

Deleted: R-59

Deleted: R-59

Table 7.5-1: PVC Bundle Related Managed Objects

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## 7.6 Network Interface

The following table (<u>Table 7.6-1</u>) lists the managed objects under the Network Interface managed entity as well as the source requirement(s) in TR-101.

Deleted: Table 7.6-1

Object Referen Number	nce Object Name	Description	Reference in DSL Forum TR-101	Comments
1.	Network Interface ID (index)	A number that uniquely identifies the Network Interface within the Access Node		ifIndex
2.	Priority to Traffic Class mapping Profile Index (RW)	Specifies the entry in the "Priority to Traffic Class Mapping Profiles" applicable for this Network Interface. The number of traffic classes supported for this Network Interface MUST be at least 4 and SHOULD be at least 6.	R-45, R-46,	Number of queues is same as number of traffic classes

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Object Reference Number	Mana Object	_	Description	Reference in DSL Forum TR-101	Comments	
3.	Queues	Setup	Specifies the entry in the	<u>R-53</u> ,		 Deleted: R-53
	Profile	Index	"Queues Block Profiles	<u>R-54</u>		 Deleted: R-54
	(RW)		Table" applicable for this	<u>R-55</u>		 Deleted: R-55
			Network Interface.	<u>R-56,</u>		 Deleted: R-56
			The number of queues			
			supported for this Network			
			Interface MUST be at least			
			4 and SHOULD be at least			
			6.			
	Table '	7.6-1: N	etwork Interface Related M	anaged Obie	cts	 Deleted: 7.6

## **Network-Side Bridge Port**

The following table (Table 7.7-1) lists the managed objects under the Network-Side Bridge Port managed entity as well as the source requirement(s) in TR-101.

Deleted: Table 7.7-1

Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments
1.	Network-Side Virtual Bridge Port ID (index)			Equivalent to Virtual Bridge Port ID

**Table 7.7-1: Network-Side Bridge Port Related Managed Objects** 

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#### **7.8** Filter

The following table (Table 7.8-1) lists the managed objects under the Filter managed entity as well as the source requirement(s) in TR-101.

Deleted: Table 7.8-1

Object Reference Number	Managed Object Name	Description	Reference in DSL Forum	Comments	
1.	Filter ID (Index)	An ordered number of this filter	TR-101 R-26, R-94,		Deleted: R-26 Deleted: R-94

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Filter Type (RW)

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the

According to

Type it

determine whether

possible

Filter

is

to

the

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Deleted: R-26 Deleted: R-94

R-94 indicates the filter type. The following types are possible: **Ethertype** Filter Allowed Source **MAC Addresses** 

filter details are located in **Denied Source** Table 7.8 - 2**MAC Addresses Table** and Allowed 7.8-3 or in **Destination** MAC Table 7.8-4. **Addresses** 

R-26.

Deleted: Table 7.8-2

Deleted: Table 7.8-3

Deleted: Table 7.8-4

Table 7.8-1: Filter Managed Objects

**Denied Destination MAC Addresses** 

parameter

that

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## 7.8.1 Ethertype Filter – Ethertype Values

The following table (Table 7.8-2) lists more managed objects under the Filter managed entity in case it filters Ethertype values. This following table lists the Ethertype values in this Ethertype filter while Table 7.8-3, details the actions to perform on the filtered frames.

Deleted: Table 7.8-2

Deleted: Table 7.8-3

	Object Reference Number	Managed Object Name Description		Reference in DSL Forum TR-101	Comments
]	1.	Filter ID (Index)	An ordered number of this filter	<u>R-26,</u>	Same as the Filter ID in Table 7.8-1.
	2.	Ethertype value (Index)	An Ethertype value this filter handles.	<u>R-26,</u>	

Deleted: R-26

Deleted: Table 7.8-1 Deleted: R-26

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Table 7.8-2: Ethertype Filter Managed Objects

### 7.8.2 Ethertype Filter – Actions

The following table (Table 7.8-3) lists more managed objects under the Filter managed entity in case it filters Ethertype values. This table details the actions to perform on the frames filtered according to the Ethertype values listed in Table 7.8-2,

Deleted:	Table 7.8-3
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Deleted: Table 7.8-2

Object	Managed Object	Description	Reference	Comments
Reference	Name		in DSL	
Number			Forum	
			TR-101	

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•	T			T	``	Deleted: Version 3.0
1.	Filter ID (Index)	An ordered number of	<u>R-26,                                     </u>	Same as the		Deleted: R-26
		this filter		Filter ID in		
				<u>Table 7.8-1</u>		Deleted: Table 7.8-1
				and <u>Table</u>		
				7.8-2		Deleted: Table 7.8-2
2.	C-VID (RW)	The C-VLAN ID value	<u>R-27</u>	If =0 only S-		Deleted: R-27
		as part of the filter		tag is		
		assigned tagging.		applicable		
3.	S-VID (RW)	The S-VLAN ID value	<u>R-27</u>			Deleted: R-27

R-27\_

this frame. Table 7.8-3: Ethertype Filter Managed Objects

Priority

as part of the filter assigned tagging.

Specifies the entry in

the "Ingress to Egress

Table" applicable for

Mapping

## 7.8.3 MAC Address Filter

4.

Ingress to Egress

Priority Mapping -

Profile Index (RW)

The following table (Table 7.8-4) lists more managed objects under the Filter managed entity in case it filters source or destination MAC addresses.

Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments	
1.	Filter ID (Index)	An ordered number of this filter	<u>R-94,</u>	Same as the Filter ID in Table 7.8-1	 Deleted: R-94  Deleted: Table 7.8-1
2.	MAC Address (Index)	A MAC Address included in this filter. The Filter Type object in the Filter's main table (Table 7.8-1) defines whether the MAC Addresses in this filter are source or destination MAC addresses and also whether those addresses are allowed or denied.	R-94,		 Deleted: R-94  Deleted: Table 7.8-1
	Table 7.8-4: MA	AC Address Filter Manag	ed Objects	-	 Deleted: 7.8

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## 7.8.4 Filters List

The following table (<u>Table 7.8-5</u>) lists the managed objects under the Filters List managed entity as well as some assumptions on the contents of the Filter List managed entity.

Deleted: Table 7.8-5

	Object Reference	Managed Object Name	Description	Reference in DSL Forum	Comments	
	Number	Ett. II. ID.	A 1 1 1 C	TR-101		
	1.	Filters List ID	An ordered number of			
-	2	(Index)	this filters list	Ed. (	C	
	2.	Filter Id (Index)	An ordered number of	Ethertype per	Same as a	
			a filter included in	<u>R-26</u>	Filter ID in	Deleted: R-26
			this Filter List.	<u>R-27</u>	<u>Table 7.8-1, </u>	Deleted: R-27
			A Filter List	Allowed/Denied		Deleted: Table 7.8-1
			SHOULD include at	MAC		
ıl			least one filter and at	Addresses per		
I			most one filter for	<u>R-94</u>		Deleted: R-94
			each of the following			
			Filter Types (Filter			
			Type is an object in the Filter's main table			
			( <u>Table 7.8-1</u> ):			Deleted: Table 7.8-1
I			"Ethertype"			Deleted. Table 7.8-1
			* -			
			"Allowed Source MAC Addresses"			
			or "Denied Source			
			MAC Addresses"			
			"Allowed			
			Destination MAC			
			Addresses" or			
			"Denied			
			Destination MAC			
			Addresses"			
		Table <u>7.</u>	8-5: Filters List Manage	ed Objects		Deleted: 7.8

## **7.9 VLAN**

The following table (<u>Table 7.9-1</u>) lists the managed objects under the VLAN managed entity as well as the source requirement(s) in TR-101.

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	Object	Managed Object	Description	Reference	Comments
	Reference	Name		in DSL	
	Number			Forum	
				TR-101	
Ī	1.	VLAN ID (index)	The S-VLAN ID		
			number		

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		_			1	Deleted: Version 3.0
	2.	User To User Traffic Control (RW)	Configures per S-VLAN ID whether or not to prevent traffic between user bridge ports.	<u>R-40,</u>		Deleted: R-40
	3.	Downstream Broadcast/Multicast filtering (RW)	Control whether the AN filters out downstream Broadcast/Multicast frames	<u>R-88</u> ,		Deleted: R-88
	4.	Forwarding Paradigm (RW)	Determines the forwarding paradigm. Optional values are: nToOneVlan or oneToOneVlan.	<u>R-33</u> ,		Deleted: R-33
	5.	Address Learning Control (RW)	If Forwarding Paradigm attribute is oneToOneVlan, controls (enables/disable) the MAC address learning	R-44,		Deleted: R-44
	6.	Interworked PPPoE Inactivity Timeout (RW)	Defines the "inactivity timeout" in the context of considering an interworked PPPoE session to be disconnected.	Derived from R-76,		Deleted: R-76
	7.	PADT VLAN Priority (RW)	Defines the VLAN priority value assigned to PPPoE PADT packets.	<u>R-77,</u>		Deleted: R-77
	8.	L2 DHCP Relay Agent Control (RW)	Defines whether or not Layer 2 DHCP Relay Agent is enabled in this S-VLAN.  Note that the function may be disabled for selected member user-side bridge ports.	R-96, R-97,	Default=disabled	Deleted: R-96  Deleted: R-97

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	9.	IP Address	Defines whether or	R-108,	Default=disabled		Deleted: R-108
		Spoofing	not IP Address				
		Prevention Control	Spoofing Prevention				
		(RW)	function is enabled in				
			this S-VLAN.				
			This function MUST				
			be enabled only if				
			"L2 DHCP Relay				
			Agent Control" is enabled too.				
ı	10.	NtoOne VLAN		D 210	Eon		Deleted D 210
IJ	10.		$\mathcal{E}$	<u>R-218</u>	For	7	Deleted: R-218
		Type (RW)	Paradigm attribute is		Multicast/Shared		
			set to <b>nToOneVlan</b> this attribute		VLANs "IGMP		
			indicates if this is a		Processing Mode" attribute		
					cannot be set to		
			dedicated		Forward.		
			Multicast VLAN,		roi wai u.		
			<u>Unicast</u> VLAN or				
			Shared VLAN,				
			i.e., provides both				
			unicast and				
	11.	ICMD Days and	multicast traffic.	D 202	For		
	11.	IGMP Processing Mode (RW)	The way IGMP messages are handled	R-202, R-209,	Multicast/Shared		Deleted: R-202
		Mode (KW)	in the context of this	R-209, R-221,	VLANs the		Deleted: R-209
1			VLAN.	<u> </u>	"IGMP		Deleted: R-221
			Possible setups:		Processing		
			Discard,		Mode" attribute		
			Forward,		cannot be set to		
			Process		Forward		
ı	12.	IGMP Snooping	If "NtoOne VLAN	R-247			Deleted: R-247
		Mode (RW)	Type" attribute of	R-248			Deleted: R-248
'			this VLAN is set to				(
			either Multicast or				
			Shared and "IGMP				
			Processing Mode"				
			attribute is set to				
			<b>Process</b> , then this				
			attribute defines the				
			process type, which				
			can take one of the				
			following values:				
			Transparent				
			Snooping				
			Snooping with			ا	Deleted: 18 September 2006
			Proxy Reporting			/	
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13.	Discard Upstream	Defines whether or	<u>R-206,</u>	 	Deleted: R-206
	Multicast Traffic	not ( <b>true</b> or <b>false</b> ) the			
	(RW)	Access Node should	ļ		
		discard multicast			
		traffic on upstream			
		direction in the			
		context of this			
ļ		VLAN.	ļ		
14.	IGMP Default	Defines the priority	R-215.		Deleted: R-215
	Priority (RW)	(re)marking for user-			
	• , , ,	initiated IGMP			
		messages received in			
		this VLAN before			
		forwarding them to			
		the network.	<u> </u>		
	Table <b>7.9-1</b> :	VLAN Related Manage	ed Objects		Deleted: 7.9

## 7.10 VLAN Membership List

The following table (<u>Table 7.10-1</u>) lists the managed objects under the VLAN Membership List managed entity as well as the source requirement(s) in TR-101.

Deleted: Table 7.10-1

Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments		
1.	VLAN	A first key that identifies	R-16,			Deleted: R-16
	Membership	the VLAN Membership	<u>R-17</u> ,			Deleted: R-17
	List (index)	List	<u>R-30</u> <sub>e</sub>			Deleted: R-30
			<u>R-31</u>			Deleted: R-31
2.	C-VID In	A second key that	<u>R-16</u> ,			Deleted: R-16
	(index)	identifies a C-VLAN ID In	R-17,			Deleted: R-17
		the list.	R-30,			Deleted: R-30
			<u>R-31</u> ,			Deleted: R-31
3.	Ingress to	Traffic Priority Handling	R-17.			Deleted: R-17
	Egress Priority	is set to "Use Ingress to	<u>R-31</u>			Deleted: R-31
	Mapping -	Egress Priority Mapping",				
	Profile Index	specifies the entry in the				
	(RW)	"Ingress to Egress Priority				
		Mapping Table"				
		applicable for this C-				
		VLAN ID.				
4.	C-VID Out	The C-VLAN ID value	<u>R-16</u> ,	If =0 only S-		Deleted: R-16
	(RW)	that should override the C-	<u>R-30</u>	VID is		Deleted: R-30
		VID In value.		applicable		D-1-4-1 10 C 1 C
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	5.	S-VID Out	The S-VLAN ID value in	<u>R-16</u> ,			Deleted: R-16
		(RW)	a S-tag that should be	<u>R-30</u> ,			Deleted: R-30
			added to the frame.				
	6.	IGMP	The way IGMP messages	<u>R-202,</u>	Forward can		Deleted: R-202
		Processing	are handled in the context		be selected only		
		Mode (RW)	of this S-VID Out.		if the same		
			Possible setups:		attribute for the		
			<b>Discard,</b> - IGMP		S-VID Out is		
			messages are		either <b>Process</b>		
			discarded. Option is		of <b>Forward.</b>		
			always relevant		Process can be		
			Forward, - IGMP		selected only if		
			messages are		the same		
			forwarded as regular		attribute for the		
			traffic.		S-VID Out is		
			<b>Process</b> – IGMP messages		Process too.		
			are processed				
	7.	IGMP No-	When the <b>IGMP</b>	R-204			Deleted: R-204
		Match	Processing Mode attribute				
		Behavior	is set to 'Process' then this				
		(RW)	attribute defines the				
			behavior when there is no				
			match between the content				
			of IGMP messages				
			received on this VLAN				
			and the list of multicast				
			groups supported by				
			VLANs in this VLAN				
			Membership List.				
			Possible setups:				
			Discard,				
			Forward				
	8.	Discard	Defines whether or not	R-206	If same		Deleted: R-206
		Upstream	(true or false) the Access	<del></del>	attribute in the		
		Multicast	Node should discard		VLAN entity		
		Traffic (RW)	multicast traffic on		(§ <u>7.9</u> ) is set to		Deleted: 7.9
		, , ,	upstream direction in the		true (discard)		
			context of this S-VID Out.		then upstream		
					multicast traffic		
					is anyhow		
					discarded.		

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9.	Upstream	Defines the rate limit	<u>R-208,</u>	This attribute is
	IGMP	(messages/second) for		relevant only if
	Messages Rate	IGMP messages received		the "IGMP
	Limit (RW)	on upstream direction.		Processing
				Mode" attribute
				is set to

Deleted: R-208

Table 7.10-1: VLAN Membership List Related Managed Objects

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## 7.11 Multicast Group Description Table

The following table (<u>Table 7.11-1</u>) lists the managed objects under the Multicast Group Description Table managed entity as well as the source requirement(s) in TR-101.

Deleted: Table 7.11-1

Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments	
1.	S-VID (index)	A first key that identifies the multicast S-VLAN to which this row refers.	<u>R-219</u>		 Deleted: R-219
2.	IP Multicast Group Address (index)		<u>R-219</u>		 Deleted: R-219
3.	IP Source Address (index)	A third key that identifies the IP source address to which this row refers.  A value of 0.0.0.0 indicates that the operator is indifferent to this attribute.	<u>R-219</u>		 Deleted: R-219

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#### 7.12 Multicast VLAN Statistics

The following paragraphs define the managed objects under the Multicast VLAN Statistics managed entity, as well as the source requirement(s) in TR-101.

## 7.12.1 Multicast VLAN Statistics - Currently Active Hosts Table

The following table (<u>Table 7.12-1</u>) lists the managed objects under the Multicast VLAN Statistics managed entity that their scope is the currently active hosts per each multicast VLAN and IP multicast group associated with it.

Deleted: Table 7.12-1

Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments		
1.	S-VID (index)	A first key that identifies the multicast S-VLAN to which this row refers.	<u>R-217,</u>			Deleted: R-217
2.	IP Multicast Group Address (index)	A second key that identifies the IP multicast group address to which this row refers.	R-217,			Deleted: R-217
3.	IP Source Address (index)	A third key that identifies the IP source address to which this row refers.  A value of 0.0.0.0 indicates that the operator is indifferent to this attribute.	R-217,			Deleted: R-217
4.	Active Hosts (RO)	The number of hosts (i.e., Access Loops) that are currently members of this IP multicast group.  ntly Active Hosts Table Rela	R-217,		'	Deleted: R-217

## 7.12.2 Multicast VLAN Statistics - Access Loop IGMP Activity Table

The following table (<u>Table 7.12-2</u>) lists the managed objects under the Multicast VLAN Statistics managed entity that their scope is the IGMP activity per each Access Loop and multicast VLAN.

Deleted: Table 7.12-2

Object	Managed	Description	Reference	Comments
Reference	Object Name		in DSL	
Number			Forum	
			TR-101	

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1.	Access Loop	A first key that identifies	R-217.	ifIndex	¬	Deleted: Version 3.0
1.	ID (index)	the Access Loop within	<u>K-21</u> / <sub>-</sub>	IIIIIuex		Deleted: R-217
	ID (Ilidex)	the Access Node to which				
		this row refers.				
2.	S-VID (index)	A second key that	R-217.			Deleted: R-217
	, ,	identifies the multicast S-	<del></del>			
		VLAN to which this row				
		refers.				
3.	Total	The number IGMP join	R-217,			Deleted: R-217
	Successful	messages received from				
	Joins	this Access Loop that were				
	(RO)	successful.				
4.	Total	The number IGMP join	R-217,			Deleted: R-217
	Unsuccessful	messages received from				
	Joins	this Access Loop that were				
	(RO)	unsuccessful.				
5.	Total Leaves	The number IGMP leave	R-217,			Deleted: R-217
	(RO)	messages received from	<del>-</del>		1	
		this Access Loop.				
6.	Total General	The number IGMP general	R-217,			Deleted: R-217
	Queries	query messages sent to this	·		1	
	(RO)	Access Loop.				
7.	Total Specific	The number IGMP	R-217,			Deleted: R-217
	Queries	specific query messages				
	(To (O))			1	1	

Table 7.12-2: Access Loop IGMP Activity Table Related Managed Objects

sent to this Access Loop.

The number invalid IGMP

messages received from

## 7.12.3 Multicast VLAN Statistics –VLAN IGMP Activity Table

this Access Loop.

(RO)

Total

Messages (RO)

Invalid

8.

The following table (<u>Table 7.12-3</u>) lists the managed objects under the Multicast VLAN Statistics managed entity that their scope is the IGMP activity per multicast VLAN.

Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments	
1.	S-VID (index)	A key that identifies the multicast S-VLAN to which this row refers.	<u>R-217,</u>		 Deleted: R-217
2.	Active Groups (RO)	The number of IP multicast groups that are currently active on this multicast VLAN.	<u>R-217, </u>		 Deleted: R-217  Deleted: 18 September 2006

R-217\_

Deleted: R-217

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Management for TR-101 compliant Access Node		WT-141 <u>Version 3.0</u> ,	Formatted: Font: 12 pt, German (Germany)	
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3.	Total Sent Joins (RO)	The number IGMP join messages sent from this multicast VLAN to the network.	R-217,	Deleted: R-217
4.	Total Received Joins (RO)	The number IGMP join messages received by this multicast VLAN from all hosts.	R-217,	Deleted: R-217
5.	Total Successful Received Joins (RO)	The number IGMP join messages received by this multicast VLAN from all hosts and that were successful.	R-217,	Deleted: R-217
6.	Total Unsuccessful Received Joins (RO)	The number IGMP join messages received by this multicast VLAN from all hosts and that were unsuccessful.	R-217,	Deleted: R-217
7.	Total Sent Leaves (RO)	The number IGMP leave messages sent from this multicast VLAN to the network.	R-217,	Deleted: R-217
8.	Total Received Leaves (RO)	The number IGMP leave messages received by this multicast VLAN from all hosts.	R-217,	Deleted: R-217
9.	Total Sent General Queries (RO)	The number IGMP general query messages sent from this multicast VLAN to the hosts.	R-217,	Deleted: R-217
10.	Total Received General Queries (RO)	The number IGMP general query messages received by this multicast VLAN from the network.	R-217,	Deleted: R-217
11.	Total Sent Specific Queries (RO)	The number IGMP specific query messages sent from this multicast VLAN to the hosts.	R-217,	Deleted: R-217
12.	Total Received Specific Queries (RO)	The number IGMP specific query messages received by this multicast VLAN from the network.	R-217,	Deleted: R-217
13.	Total Invalid Received Messages (RO)	The number invalid IGMP messages received by this multicast VLAN from all hosts.	R-217,	Deleted: R-217  Deleted: 18 September 2006
		1	1	// Formatted: Font: 12 pt

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## Table 7.12-3: VLAN IGMP Activity Table Related Managed Objects

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#### 7.13 Static Hosts Table

The following table (<u>Table 7.13-1</u>) the managed objects under the Static Hosts Table managed entity as well as the source requirement(s) in TR-101.

Deleted:	Table 7.13-1

Object Reference	Managed Object Name	Description	Reference in DSL	Comments		
Number			Forum TR-101			
1.	Port ID (index)	An index that uniquely identifies a user-side virtual bridge port within this Access Node in the context of specifying a static host in this row.	<u>R-109,</u>		. — — —	Deleted: R-109
2.	VLAN ID (index)	An S-VLAN ID number in the context of specifying a static host in this row.	<u>R-109,</u>			Deleted: R-109
3.	Host Address (index)	The IP Address of a static host associated with the Port ID and VLAN ID in this row.	<u>R-109</u>			Deleted: R-109
	<b>Table</b> <u><b>7.13</b></u>	-1: Static Hosts Table Mana	ged Objects			Deleted: 7.13

## 7.14 Priority to Traffic Class Mapping Profiles

## 7.14.1 Priority to Traffic Class Mapping Top Table

The following table (<u>Table 7.14-1</u>) includes one managed object under the Priority to Traffic Class Mapping managed entity (the selection between using and not using the DEI field) as well as the source requirement(s) in TR-101.

Deleted: Table 7.14-1

Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments	
1.	Profile Index	A key that identifies the	<u>R-45</u>		 Deleted: R-45
	(index)	specific set of mapping	<u>R-46</u>		 Deleted: R-46
		Ethernet priorities to	<u>R-47</u>		 Deleted: R-47
		Traffic Class and Drop	<u>R-48</u> ,		 Deleted: R-48
		Precedence.			

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	Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments	
	2.	DEI Support		<u>R-47</u>		-
l		(RW)	to "enabled" the drop	<u>R-48</u> ,		-
			precedence is directly			
			determined according to			
			the DEI bit value of the			
			Ethernet header.			
			When s this attribute is et			
			to "disabled" the Access			
			Node, according to this			
			mapping, does not use the			
			DEI bit value of the			
			Ethernet header.			

Deleted: R-47
Deleted: R-48

Table 7.14-1: Priority to Traffic Class Mapping Top Table Managed Objects

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## 7.14.2 Priority to Traffic Class Mapping Main Table

The following table (<u>Table 7.14-2</u>) lists the main managed objects under the Priority to Traffic Class Mapping Table managed entity as well as the source requirement(s) in TR-101.

**Deleted:** Table 7.14-2

Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments		
1.	Profile Index	A first key that identifies	R-45,	Same as the		Deleted: R-45
	(index)	the specific set of mapping	R-46,	index in <u>Table</u>		Deleted: R-46
		Ethernet priorities to	R-47,	<u>7.14-2</u> ,		Deleted: R-47
		Traffic Class and Drop	<u>R-48</u>		~~~. ·.	Deleted: Table 7.14-2
		Precedence.				Deleted: R-48
2.	Ethernet	A second key that	R-45	There MUST		Deleted: R-45
	Priority	identifies a specific	R-46,	be 8 rows in		Deleted: R-46
	(index)	Ethernet priority as part of	<u>R-47</u>	this table,		Deleted: R-47
		this set of mapping		corresponding		Deleted. R-47
		Ethernet priorities to		to each possible		
		Traffic Class and Drop		Ethernet		
		Precedence.		priority.		
3.	Traffic Class	The Traffic Class adapted	R-45,			Deleted: R-45
	(RW)	to the given Ethernet	<u>R-46</u>			Deleted: R-46
		Priority.	R-47,			Deleted: R-47
		This object MUST support				
		at least 4 different values				
		and SHOULD support at				
		least 6 different values.			,	Deleted: 18 September 2006
<u>,                                    </u>					/:	Formatted: Font: 12 pt

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Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments	
4.	Drop	The Drop Precedence (DP)	R-47	If the DEI	Deleted: R-47
	Precedence	adapted to the given	<u>R-48,</u>	Support	Deleted: R-48
	(RW)	Ethernet Priority.		attribute is set	
		The possible values of this		to "enabled" for	
		objects are:		the related	
		None – No drop		profile then the	
		precedence value is		Drop	
		specified,		Precedence	
		<b>High</b> – High drop		attribute is	
		precedence, or		ignored.	
		Low – Low drop			
		precedence			
		High and low drop			
		precedence MUST be			
		applicable for at least 2			
	14.2 D : :: .	different traffic classes.	7D 11 3/f	1011	

Table 7.14-2: Priority to Traffic Class Mapping Main Table Managed Objects

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### 7.15 Queues Block Profiles Table

The following table (<u>Table 7.15-1</u>) lists the managed objects under the queues block profiles table managed entity as well as the source requirement(s) in TR-101.

Deleted: Table 7.15-1

1. Queue Setup Profile (index) A first key that identifies a profile of queues setup Profile (index) Profile (index) A first key that identifies a profile of queues setup Profile (index) R-52, R-56, R-57, Deleted: R-55  2. Queue Number (index) A second key that identifies a queue number in the queue setup profile. R-51, The "Queue R-51 Deleted: R-57 Deleted: R-51 Deleted: R-51 Deleted: R-52 Deleted: R-52 Deleted: R-55 Deleted: R-55 Deleted: R-55 Deleted: R-55 Deleted: R-56 Deleted: R-56 Deleted: R-56 Deleted: R-56 Deleted: R-56 Deleted: R-57	Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments	
2. Queue Number (index) A second key that identifies a queue number in the queue setup profile.  R-51 The "Queue Number index"   R-52   Same as   R-55   Traffic Class"   Poleted: R-55   Deleted: R-55   Deleted: R-56   R-57   In the 7.14   R-56   R	1.	-		R-52, R-55, R-56,		Deleted: R-52 Deleted: R-55 Deleted: R-56
Dolotton: R 57	2.	_	identifies a queue number	R-51, R-52, R-55, R-56,	Number index" is same as "Traffic Class"	 Deleted: R-51 Deleted: R-52 Deleted: R-55

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					<u> </u>	Deleted: Version 3.0
3.	Queue Priority		<u>R-51</u>	At least	4	Deleted: R-51
	(RW)	the queue.	R-52,	priorities		Deleted: R-52
		If this queue priority is	R-55	MUST	_be	Deleted: R-55
1		unique among all other queues in this profile then	<u>R-56,</u>	supported.		Deleted: R-56
		a strict priority scheduling method is assumed.				
4.	Queue Weight	The weight assigned to the	R-52,			Deleted: R-52
	(RW)	queue.	<u>R-56,</u>			Deleted: R-56
		The weight is relevant				
		only when the same Queue				
		Priority value is assigned				
		to multiple queues and				
		they are scheduled				
		according to a weighted				
		algorithm.				
5.	Maximum	The maximum size (i.e.,	<u>R-57</u>	1		Deleted: R-57
	Queue Size	depth) of the queue,				
	(RW)	expressed in bytes.				

# 7.16 Circuit ID Syntax

The following table (<u>Table 7.16-1</u>) lists the managed objects under the Circuit ID Syntax managed entity as well as the source requirement(s) in TR-101.

Table 7.15-1: Queue Block Related Managed Objects

**Object** Managed **Description** Reference **Comments** Reference **Object Name** in DSL Number Forum TR-101 Circuit ID A first key that identifies 1. R-126 See Note 1 Deleted: R-126 Syntax (index) the Circuit ID Syntax 2. key R-126 Circuit ID second Deleted: R-126 Component identifies a component in (index) the Circuit ID Syntax. 3. Component An attribute that identifies R-126 Deleted: R-126 Type (RW) of type component. The following types are possible: Standard - A TR-101 based variable **PropVar** - A proprietary variable **PropStr** - A delimiter or constant string

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4	Component	A unique and content	<u>R-126,</u>	See Notes 2
	Identifier	sensitive identifier for the		and 3
	(RW)	specific definition of this		
		component. The following		
		identifiers are expected:		
		A row number in table 2		
		of TR-101 (R-126).		
		An index into a		
		proprietary managed		
		entity that specifies		
		possible proprietary variables.		
		An index into a		
		proprietary managed		
		entity that specifies		
		possible delimiters and		
		constant character		
		strings.		

Note 1: This key is required if there is a need to select between multiple Circuit ID Syntaxes, e.g., a primary syntax vs. an alternative syntax, current syntax vs. next syntax, etc.

Note 2: The interpretation of the "Component Identifier" attribute depends on the setup of "Component Type" attribute.

Note 3: The "Access Node ID" [Table 7.1-1, (1)] is utilized when "Component Type" attribute is set to 'Standard' and "Component Identifier" attribute is set to '1'.

Table 7.16-1: Circuit ID Syntax Related Managed Objects

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### 7.17 Traffic Classification Table

The following table (<u>Table 7.17-1</u>) lists part of the managed objects under the <u>Traffic</u> Classification Table managed entity (the criteria part of the classifier) as well as the source requirement(s) in TR-101.

Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments
1.	Traffic	A first key that identifies	<u>R-58</u> ,	
	Classifier	the specific traffic		
	Index (index)	classifier.		
2.	Criteria	A second key that	<u>R-58</u> ,	
	(index)	identifies a specific		
		criteria/rule in this traffic		
		classifier.		
3.	Criteria Type	The classification criteria	<u>R-58</u> ,	
		type of the rule:		
		User Port ID (physical		

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Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments
		or logical) Ethernet Protocol ID Received Ethernet priority bits IP protocol ID		
4.	Value	The value of the classification criteria/rule.	<u>R-58</u> ,	Syntax should be determined by criteria type

Table 7.17-1: Traffic Classification Table Criteria Managed Objects

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The following table (<u>Table 7.17-2</u>) lists the other managed objects under the <u>Traffic</u> Classification Table managed entity (the priority marking/remarking) as well as the source requirement(s) in TR-101.

Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments
1.	Traffic Classifier Index (index)	A first key that identifies the specific traffic classifier.	<u>R-58,</u>	
2.	Priority	The priority used to mark/re-mark the frame in case of classification match.	<u>R-58</u> ,	

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Table 7.17-2: Traffic Classification Table - Priority

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### 7.18 Ingress to Egress Priority Mapping Table

The following table (<u>Table 7.18-1</u>) lists the managed objects under the Ingress to Egress Priority Mapping Table managed entity as well as the source requirement(s) in TR-101.

Deleted: Table 7.18-1

Objec	Managed	Description	Reference	Comments	
Referen	ce Object Name		in DSL		
Numbe	r		Forum		
			TR-101		
1.	Profile Index	A first key that identifies	R-14,		 Deleted: R-14
	(index)	the specific set of mapping	<u>R-17</u> ,		 Deleted: R-17
		Ingress priorities to Egress	<u>R-20</u>		 Deleted: R-20
		priorities.	<u>R-31</u>		 Deleted: R-31

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Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments	
2.	Ingress	A second key that	R-14,		 Deleted: R-14
	Priority	identifies a specific ingress	<u>R-17</u>		 Deleted: R-17
	(index)	priority as part of this set			 Deleted: R-1
		of mapping Ingress priorities to Egress priorities.	<u>R-31</u> ,		 Deleted: R-31
3.	Egress Priority	The Egress priority	<u>R-14, </u>		 Deleted: R-14
	(RW)	adapted by this set of	<u>R-17,</u>		 Deleted: R-17
		mapping to the given	<u>R-20</u>		 Deleted: R-20
		Ingress Priority.	<u>R-31</u> ,		 Deleted: R-31
Table	2 <u>7.18</u> -1: Ingress t	o Egress Priority Mapping	Table Manag	ed Objects	 Deleted: 7.18

### 7.19 MEP Table

The following table (Table 7.19-1) lists the managed objects under the MEP Table managed entity as well as the source requirement(s) in TR-101.

Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments		
1.	Maintenance Level (index)	A first key that identifies the specific maintenance level associated with this MEP. Possible values for this index are:  Customer,  Carrier,  IntraCarrier, and  Link	R-280, R-281, R-291, R-292,	Not all combinations of maintenance level, port id and VLAN id values are relevant.	' ' '	Deleted: R-280  Deleted: R-281  Deleted: R-291  Deleted: R-292
2.	Virtual Bridge Port ID (index)		R-280, R-281, R-291, R-292,		<sup>-</sup> <sup>-</sup>	Deleted: R-280  Deleted: R-281  Deleted: R-291  Deleted: R-292
3.	VLAN ID (index)	A third index that identifies a specific VLAN associated with this MEP.	R-280, R-281, R-291, R-292,		<sup>-</sup> <sup>-</sup>	Deleted: R-280  Deleted: R-281  Deleted: R-291  Deleted: R-292

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Object Reference Number	Managed Object Name	Description	Reference in DSL Forum TR-101	Comments		
4.	MEP Direction (RW)	Identifies the direction of the respective MEP. Possible values for this index are: Inward, or Outward	TBD			
5.	CCM Source (RW)	Identifies whether the respective MEP should generate Continuity Check Messages (CCM).	R-280, R-281, R-291, R-292	true/false		Deleted: R-280 Deleted: R-281 Deleted: R-291 Deleted: R-292
6.	CCM Sink (RW)	Identifies whether the respective MEP should enable the Continuity Check Messages (CCM) sink function.	R-280, R-281, R-291, R-292,	true/false		Deleted: R-280  Deleted: R-281  Deleted: R-291  Deleted: R-292
	Table 7	7.19-1: MEP Table Managed	Objects		l 	Deleted: 7.19

## 8 Mapping TR-101 Requirements to Managed Objects

This chapter allows tracing the managed entities and objects that are derived from each requirement in DSL Forum TR-101 document.

### 8.1 TR-101 Requirements to Managed Entities and objects

The following table (<u>Table 8.1-1</u>) depicts the requirements in DSL Forum TR-101 that lead to managed objects in the Access Node management model. It also lists the requirements that do not have influence on the Access Node management model.

DSL Forum TR-101	Managed Object	Managed	Comments	İ
Requirement	Name	Entity/		i
Number		Managed		i
		Object		İ
		(paragraph		İ
		number)		İ

		(paragraph number)		
R-1	None	-	TR-101 2.1	Paragraph
R-2	None	-		
R-3	None	-		
R-4	None	-	TR-101 3.1	Paragraph
R-5	None	-		
R-6	None	-		
R-7	None	=		
R-8	ETHERTYPE	<u>Table 7.1-1, (3)</u>		;

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	DSL Forum TR-101 Requirement Number	Managed Object Name	Managed Entity/ Managed Object (paragraph number)	Comments	
		802.1ad			1
j	R-9	Acceptable Frame Type(s)	<u>Table 7.4-1, (6)</u>		< [
i	R-10	TLS function	<u>Table 7.4-1, (7)</u>		-
	R-11	VLAN Membership	Table 7.4-1, (10),		< (
		List	(11)		
	R-12	(TLS) S-VID	<u>Table 7.4-1, (14)</u>		``\
	R-13	None	-		11
	R-14	Default Priority	Table 7.4-1, (13)		``
		Ingress to Egress Priority Mapping Table	7.18,		
		Ingress to Egress Priority Mapping - Profile Index	<u>Table 7.4-1, (16)</u>		
	R-15	None	-		
	R-16	VLAN Membership List	7.10,	The VML refers to the VLAN	
		VLAN Membership	<u>Table 7.4-1, (10),</u>	translation function	
		List (VML) -Index	( <u>11</u> )		
ļ	R-17	VLAN Membership List	<u>7.10</u> ,	The VML associates "Ingress to Egress	
İ		VLAN Membership	Table 7.4-1, (10),	Priority mapping"	
		List (VML) -Index	(11)	per VLAN.	
		Ingress to Egress Priority Mapping Table	7.18,		
Ì		Default Priority	Table 7.4-1 (13)		
	R-18	None			
	R-19	Non-Tagged Frames Handling	<u>Table 7.4-1, (17)</u>		2-
	R-20	Ingress to Egress Priority Mapping Table	7.18,		1
		Ingress to Egress Priority Mapping - Profile Index	<u>Table 7.4-1, (16)</u>		
	R-21	S-VID	<u>Table 7.4-1, (14)</u>		1/
		S-Priority	<u>Table 7.4-1, (15)</u>		

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DSL Forum TR-101 Requirement Number	Managed Object Name	Managed Entity/ Managed Object (paragraph	Comments		
D 22	CAID	number)			
R-22	C-VID	<u>Table 7.4-1, (12)</u>		<[[	Deleted: Table 7.4-1
D 22	C-Priority	<u>Table 7.4-1, (13)</u>		·	Deleted: 12
R-23 R-24	None None	-			Deleted: Table 7.4-1
R-24 R-25	None	-			Deleted: 13
R-25 R-26	Filters List Index	Table 7.4-1 (8)			Deleted: Table 7.4-1
K-20	(Ethertype) Filter	7.8, 7.8.1, 7.8.2,		-=[[	Deleted: 1able 7.4-1
	Table	7.8.4		12	
R-27	Ethertype Filter -	7.8, 7.8.1, 7.8.2,			Deleted: 7.8
K-27	Actions	7.8.4			Deleted: 7.8.1
R-28	None	<u> </u>		111	Deleted: 7.8.2
R-29	VLAN Membership	Table 7.4-1 (10),		111	Deleted: 7.8.4
1(2)	List -Index	(11)		170	Deleted: 7.8
R-30	VLAN Membership	7.10	The VML refers to	111/	Deleted: 7.8.1
11 50	List	7.10	the VLAN	11/1/	Deleted: 7.8.2
	VLAN Membership	Table 7.4-1 (10),	translation function	17.77	Deleted: 7.8.4
	List (VML) -Index	(11)		11/	Deleted: Table 7.4-1
R-31	VLAN Membership	7.10	The VML associates	111 11	Deleted: 10
	List	<del></del>	"Ingress to Egress	1,15,1	Deleted: 11
	VLAN Membership	Table 7.4-1, (10),	Priority mapping"	11.11	Deleted: 7.10
	List (VML) -Index	(11)	per VLAN.	100	Deleted: Table 7.4-1
	Ingress to Egress	<u>7.18</u> ,		111	Deleted: 10
	Priority Mapping				Deleted: 11
	Table			1111	Deleted: 7.10
	Default Priority	<u>Table 7.4-1, (13)</u>		111	Deleted: Table 7.4-1
R-32	None	-		1	Deleted: 10
R-33	Forwarding	<u>Table 7.9-1</u> (4)		11 1	Deleted: 11
	Paradigm			1,11	Deleted: 7.18
R-34	None	-	TR-101 Paragraph 3.2		Deleted: Table 7.4-1
R-35	None	_		1,7	Deleted: 13
R-36	None	-		Ì	Deleted: Table 7.9-1
R-37	None	-		1	Deleted: 4
R-38	None	-		1	
R-39	None	-		1	
R-40	User To User Traffic	<u>Table 7.9-1, (2)</u>		<[[	Deleted: Table 7.9-1
D //1	Control			ł	Deleted: 2
R-41 R-42	None	-		1	Deleted: 18 September 2006
N-42	None	-		J ,	Formatted: Font: 12 pt

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	DSL Forum TR-101 Requirement Number	Managed Object Name	Managed Entity/ Managed Object (paragraph number)	Comments		
	R-43	None	-			Deleted: Table 7.9-1
	R-44	Address Learning	<u>Table 7.9-1, (5)</u>		<u>/</u>	Deleted: 5
ı	D 45	Control	7.14	TD 101 D1	100	Deleted: 7.14
I	R-45	Priority to Traffic Class Mapping Table	7.14	TR-101 Paragraph 3.3	,	Deleted: Table 7.2-1
		Class Mapping Table		3.3	1	Deleted: 3
i		Priority to Traffic	<u>Table 7.2-1, (3)</u> ,		11/1	Deleted: Table 7.6-1
		Class mapping	Table 7.6-1 (2)		1/	Deleted: 2
		Profile Index			,	Deleted: 7.14
	R-46	Priority to Traffic	<u>7.14</u>		1,	Deleted: Table 7.2-1
		Class Mapping Table			1/1	Deleted: 3
		Priority to Traffic	<u>Table 7.2-1, (3),</u>		11/1	Deleted: Table 7.6-1
l		Class mapping	<u>Table 7.6-1, (2)</u>		2	Deleted: 2
ı	D 47	Profile Index Priority to Traffic	7.14		72	Deleted: 7.14
l	R-47	Priority to Traffic Class Mapping Table	<u>7.14, </u>		/ · /	Deleted: 7.14
ı	R-48	Priority to Traffic	7.14		/,	Deleted: Table 7.2-1
J	K 40	Class Mapping Table	7.1-4			Deleted: 4
I	R-49	Number of Queues	Table 7.2-1 (4)		11/1	Deleted: Table 7.2-1
i	R-50	Number of Queues	Table 7.2-1 (4)		12/-	Deleted: 4
Ĭ	R-51	Queues Block	<u>7.15</u>			Deleted: 7.15
		Profiles Table				Deleted: Table 7.2-1
		Queues Setup Profile	<u>Table 7.2-1, (4)</u>		2	Deleted: 4
		Index			1	Deleted: 7.15
	R-52	Queues Block	<u>7.15,</u>		1	Deleted: Table 7.2-1
ı		Profiles Table	Table 7.2.1 (4)		11	Deleted: 4
J		Queues Setup Profile Index	<u>Table 7.2-1, (4)</u>		!	Deleted: Table 7.6-1
ı	R-53	Number of Queues	Table 7.6-1 (3)		1/2	Deleted: 3
i	R-54	Number of Queues	<u>Table 7.6-1 (3)</u>		,, ,,,,,,	Deleted: Table 7.6-1
	R-55	Queues Block	7.15		/_`	Deleted: 3
		Profiles Table				Deleted: 7.15
		Queues Setup Profile	<u>Table 7.6-1</u> (3)			Deleted: Table 7.6-1
		Index				Deleted: 3
	R-56	Queues Block	<u>7.15</u> ,		'	Deleted: 7.15
		Profiles Table			1	Deleted: Table 7.6-1
		Queues Setup Profile	<u>Table 7.6-1, (3)</u>		2	Deleted: 3
	D 77	Index	7.15		1	Deleted: 7.15
I	R-57	Queues Block Profiles Table	<u>7.15</u>		/ /	Deleted: 18 Septembe
		1 TOTHES TABLE			l /,	Formatted: Font: 12

eleted: 2 eleted: 7.14 eleted: Table 7.2-1 eleted: 3 eleted: Table 7.6-1 eleted: 2 eleted: 7.14 eleted: 7.14 eleted: Table 7.2-1 eleted: 4 eleted: Table 7.2-1 eleted: 4 **eleted:** 7.15 eleted: Table 7.2-1 eleted: 4 eleted: 7.15 eleted: Table 7.2-1 eleted: 4 eleted: Table 7.6-1 eleted: 3 eleted: Table 7.6-1 eleted: 3 eleted: 7.15 eleted: Table 7.6-1 eleted: 3 eleted: 7.15 eleted: Table 7.6-1 eleted: 3 eleted: 7.15 eleted: 18 September 2006 ormatted: Font: 12 pt

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	DSL Forum TR-101 Requirement Number	Managed Object Name	Managed Entity/ Managed Object (paragraph number)	Con	nments		
	R-58	Traffic Classification	7.17				Deleted: 7.17
		Table					
		Traffic Classification	<u>Table 7.3-1, (2)</u>				Deleted: Table 7.3-1
		Profile Index					Deleted: 2
	R-59	PVC Bundle ID	<u>Table 7.4-1, (2)</u>				Deleted: Table 7.4-1
		PVC Bundle	<u>7.5</u> ,				Deleted: 2
	R-60	None	-				Deleted: 7.5
	R-61	None	-	TR-101 3.5	Paragraph		
	R-62	Auto-Sense Control	<u>Table 7.4-1, (5)</u>				Deleted: Table 7.4-1
	R-63	None	-				Deleted: 5
	R-64	None	-				
	R-65	None	-				
	R-66	None	-				
	R-67	None	-				
	R-68	None	-				
	R-69	None	-				
	R-70	None	-				
	R-71	None	-				
	R-72	None	-				
	R-73	None	-				
	R-74	None	-				
	R-75	None	-				
	R-76	Interworked PPPoE Inactivity Timeout	<u>Table 7.9-1, (6)</u>			<[[	Deleted: Table 7.9-1  Deleted: 6
ıŀ	R-77	PADT VLAN	Table 7.9-1, (7)				
I	K- / /	Priority	<u>1 abic 7.5-1, (1)</u>				Deleted: Table 7.9-1
_	R-78	None	_				Deleted: 7
	R-79	Not applicable	_				
_	R-80	Not applicable	_				
	R-81	Not applicable	_				
	R-82	Not applicable	-				
	R-83	Not applicable	-				
ľ	R-84	None	-				
	R-85	None	-				
ľ	R-86	Not applicable	-				
ľ	R-87	None	-	TR-101 3.6	Paragraph		
_							Deleted: 18 September 2006

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	DSL Forum TR-101	Managed Object	Managed	Comments		
	Requirement	Name	Entity/			
	Number		Managed			
			Object			
			(paragraph			
			number)			
I	R-88	Downstream	Table 7.9-1 (3)	TR-101 Paragraph		Deleted: Table 7.9-1
		Broadcast/Multicast		3.7		Deleted: 3
		filtering				
	R-89	None	-			
	R-90	None	-			
	R-91	None	-			
	R-92	Maximum learned	<u>Table 7.4-1, (9)</u>			Deleted: Table 7.4-1
		addresses				Deleted: 9
l	R-93	Maximum learned	<u>Table 7.4-1, (9)</u>			Deleted: Table 7.4-1
ı	D 04	addresses	70702704		`	Deleted: 9
ļ	R-94	MAC Address Filters	7.8, 7.8.3, 7.8.4			Deleted: 7.8
l		Filters List Index	<u>Table 7.4-1, (8)</u>			Deleted: 7.8.3
ı	R-95	EAP Control	Toble 7.2.1 (7)			Deleted: 7.8.4
	K-93	Slow Protocol	Table 7.2-1, (7) Table 7.2-1, (8)			Deleted: Table 7.4-1
l		Control	<u> 1 abie 7.2-1, (3)</u>			Deleted: 8
ı	R-96	L2 DHCP Relay	Table 7.4-1 (18),	TR-101 Paragraph		Deleted: Table 7.2-1
	K-70	Agent Control	<u>Table 7.9-1, (8)</u>	3.8	1	Deleted: 7
	R-97	L2 DHCP Relay	Table 7.4-1 (18),	3.0		Deleted: Table 7.2-1
	K-77	Agent Control	<u>Table 7.9-1 (8)</u>		11/11	Deleted: 8
1	R-98	None	-	Managed objects are		Deleted: Table 7.4-1
				specified in other	100	Deleted: 18
				requirements.	11/11/	Deleted: Table 7.9-1
	R-99	None	-		11.11	Deleted: 8
	R-100	None	-		111	Deleted: Table 7.4-1
	R-101	None	-		1,	Deleted: 18
	R-102	None	-		\ <u>'</u>	Deleted: Table 7.9-1
	R-103	None	-			Deleted: 8
	R-104	None	-			
	R-105	None	-			
	R-106	None	-			
	R-107	None	-			
	R-108	IP Address Spoofing	<u>Table 7.9-1, (9)</u>		<	Deleted: Table 7.9-1
		Prevention Control				Deleted: 9
	R-109	Static Hosts Table	<u>7.11</u> ,			Deleted: 7.11
	R-110	Not applicable	-	TR-101 Paragraph		
	D 111	NI-4 11		3.9		
	R-111	Not applicable	-		ļ	Deleted: 18 September 2006
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Requirement Name Number	Entity/ Managed Object		
Number	O		
	Object		
	/ 1		
	(paragraph		
R-112 Agent Circuit ID	number) Table 7.4-1 (3)	Managed objects are	
K-112 Agent Circuit ID	<u> 1 abie 7.4-1, (3)</u>	specified in other	< [
		requirements.	
R-113 Agent Remote ID	Table 7.2-1 (6)	requirements.	
R 113 Rigont Remote ID	Table 7.4-1 (4)		/ <u>-</u> ` _
R-114 None	-		
R-115 None	_		
R-116 Not applicable	_		
R-117 Not applicable	-		
R-118 None	-		1
R-119 Agent Circuit ID	<u>Table 7.2-1, (5)</u>	Managed objects are	11
		specified in other	11
	<u>Table 7.4-1, (3)</u>	- requirements	j' ,
R-120 Agent Remote ID	Table 7.2-1, (6)	Defining Remote	11
	Table 7.4-1, (4)	IDs on both layers is	2
		for having a design	
		similar the Circuit	
		IDs.	١,
R-121 None	-		1/
R-122 Agent Circuit ID	<u>Table 7.2-1, (5)</u>		11
	<u>Table 7.4-1, (3)</u>		11
R-123 Agent Circuit ID	<u>Table 7.2-1, (5)</u>	" per individual	,'-'-
	<u>Table 7.4-1, (3)</u>	access loop and	- = [
		logical port"	
Circuit ID Syntax	<u>Table 7.1-1, (2)</u>		< [
Type	T 11 7 1 1 (0)		
R-124 Circuit ID Syntax	<u>Table 7.1-1, (2)</u>		
Type Access Node ID	Toble 7.1.1 (1)		
R-125 Access Node ID	<u>Table 7.1-1, (1)</u> <u>Table 7.1-1, (1)</u>		-,-
R-126 Circuit ID Syntax	Table 7.1-1, (1) Table 7.1-1, (2)		17.
Type	1 auto 1.1-1, (2)		"
Circuit ID Syntax	<u>7.16</u>		","
R-127 Loop Characteristics	Table 7.4-1 (19)		Ŋ,
Insertion Control	14010 1.1 1.		",
R-128 Not applicable	_		11
R-129 None	_		•
R-130 None	-		
R-131 None	-		

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DSL Forum TR-101 Requirement Number	Managed Object Name	Managed Entity/ Managed Object (paragraph	Comments		Deleted: Version 3.0
		number)			
R-132	None	-			
R-133	Not applicable	-			
R-134	Not applicable	-			
R-135	Not applicable	-			
R-136 - 157	Not applicable	-	TR-101 Paragraph 4		
R-158 - 190	Not applicable	-	TR-101 Paragraph 5		
R-191	Not applicable	-	TR-101 Paragraph 6		
R-192	Not applicable	-			
R-193	Not applicable	-			
R-194	Not applicable	-			
R-195	Not applicable	-			
R-196	Not applicable	-			
R-197	Not applicable	-			
R-198	Not applicable	-			
R-199	Not applicable	-			
R-200	Not applicable	-			
R-201	Not applicable	-			
R-202	IGMP Processing	<u>Table 7.9-1, (11),</u>			Deleted: Table 7.9-1
	Mode	<u>Table 7.10-1</u> (6)			Deleted: 11
R-203	None	=			Deleted: Table 7.10-1
R-204	IGMP No-Match	<u>Table 7.10-1, (7)</u>		`	Deleted: 6
	Behavior				Deleted: Table 7.10-1
R-205	None	-	Behavior determined according to "IGMP No-Match Behavior"		Deleted: 7
R-206	Discard Upstream	<u>Table 7.9-1, (13)</u>			Deleted: Table 7.9-1
	Multicast Traffic	Table 7.10-1, (8)		~	Deleted: 13  Deleted: Table 7.10-1
R-207	None	-	This behavior should not be configurable. It is applied from the "NtoOne VLAN Type", "IGMP Processing Mode" and "Discard Upstream Multicast Traffic" attributes		Deleted: 18 September 2006  Formatted: Font: 12 pt

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	DSL Forum TR-101 Requirement Number	Managed Object Name	Managed Entity/ Managed Object (paragraph number)	Comments		
	R-208	Upstream IGMP	<u>Table 7.10-1 (9)</u>			Deleted: Table 7.10-1
		Messages Rate Limit				Deleted: 9
	R-209	IGMPv3 Transparent	<u>Table 7.9-1, (11)</u>			Deleted: Table 7.9-1
		Snooping				Deleted: 11
ļ	R-210	None	-			
-	R-211	None	-			
Ļ	R-212	None	-			
Ļ	R-213	None	-			
ı	R-214	None	-			
I	R-215	IGMP Default	<u>Table 7.9-1, (14)</u>		<[[	Deleted: Table 7.9-1
-	D 016	Priority				Deleted: 14
ıŀ	R-216 R-217	None Multicast VLAN	7 10 7 10 1			Deleted 7.10
	K-21/	Multicast VLAN Statistics tables	7.12, 7.12.1, 7.12.2, 7.12.3		<[[	Deleted: 7.12
╟	R-218	NtoOne VLAN Type	<u>7.12.2, 7.12.3</u> <u>Table 7.9-1, (10)</u>		· =	Deleted: 7.12.1
ŀ	R-219	Multicast Group	Table 7.11-1,			<b>Deleted:</b> 7.12.2
1	K-21)	Description Table	<u>14010 7.11-1</u>			Deleted: 7.12.3
ıŀ	R-220	Maximum Number	<u>Table 7.2-1, (9)</u>		1	Deleted: Table 7.9-1
!	11 220	of Simultaneous	14010 7.2 1. (20)		11	Deleted: 10
		Multicast Groups				Deleted: Table 7.11-1
I	R-221	IGMP Processing	Table 7.9-1 (11)			Deleted: Table 7.2-1
•		Mode			· · · ·	Deleted: 9
	R-222	None	-			Deleted: Table 7.9-1
	R-223 -237	Not applicable	-			Deleted: 11
	R-238	TBD	TBD			
	R-239	TBD	TBD			
	R-240	TBD	TBD			
	R-241	None	-	This requirement is covered by other entities in the model, i.e., the		Delated 70
I I				vLAN entity (§7.9) and vLAN Membership List entity (§7.10)		Deleted: 7.9
<b>'</b>	R-242	Not applicable	_	Since (5/114)		
ŀ	R-243	Not applicable	_			
f	R-244	Not applicable	-			
f	R-245	Not applicable	-			Deleted: 18 September 2006
f	R-246	Not applicable	-		,	Formatted: Font: 12 pt
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DSI. Forum TR-101   Requirement Number   Name   Deleted: Table 7.9-1   Deleted: Table 7.9	DOLE TO	101 M 1011	3.4	<b>C</b> .	Deleted: Version 3.0
R-247   IGMP   Snooping   Table 7.9-1 (12)   Deleted: Table 7.9-1   Deleted: 12			Managed	Comments	
R-247 IGMP Snooping Mode R-248 IGMP Snooping Mode R-249 None R-250 None R-250 None R-264 None R-264 None R-266 None R-266 None R-267 Upstream Ethernet OAM Message Rate Limit R-269 None R-270 None R-271 None R-271 None R-272 None R-272 None R-273 TBD R-274 None R-275 None R-276 None R-277 None R-277 None R-278 None R-279 None R-279 None R-279 None R-270 None R-2		Name			
R-247   IGMP   Snooping   Mode   Table 7.9-1 (12)   Deleted: Table 7.9-1   Deleted: 12	Number				
R-247   IGMP   Snooping   Mode   Table 7.9-1, (12)   Deleted: Table 7.9-1   Deleted: Tabl			Object		
R-247   IGMP   Snooping   Mode   Table 7.9-1, (12)   Deleted: Table 7.9-1   Deleted: Tabl			(paragraph		
R-247   IGMP   Snooping   Mode   R-248   IGMP   Snooping   Mode   R-249   None   -   Already covered by "IGMP   Default Priority"   R-250   None   -   Already covered by "IGMP   Default Priority"   R-251 - 263   Not applicable   -   TR-101 Paragraph 7   R-264   None   -     Most of part, 7 is under construction   Deleted: Table 7.4-1   Table 7.4-1   Table 7.4					
R-248	R-247	IGMP Snooping			Deleted: Table 7.9-1
R-249 None R-250 None R-250 None R-251 -263 Not applicable R-264 None R-265 None R-266 None R-266 None R-267 Upstream Ethernet OAM Message Rate Limit R-268 Upstream Ethernet OAM Message Rate Limit R-269 None R-270 None R-271 None R-271 None R-272 None R-273 TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD		1 0	(==1=		Deleted: 12
R-249 None R-250 None	R-248	1 0	<u>Table 7.9-1, (12)</u>		Deleted: Table 7.9-1
R-250 None - Already covered by "IGMP Default Priority"  R-251-263 Not applicable - TR-101 Paragraph 7  R-264 None - TR-265 None - TR-266 None - Most of par 7 is under construction Deleted: Table 7.4-1  R-267 Upstream Ethernet OAM Message Rate Limit  R-268 Upstream Ethernet OAM Message Rate Limit  R-269 None - Deleted: 20  R-270 None - Deleted: 20  R-271 None - R-272 None - R-273 TBD TBD Editor comment: Requires an activation command possibly with several parameters, such as the maintenance level involved. Applicability to this WT is TBD.  R-274 None - TR-101 Paragraph 7  R-266 None - Deleted: Table 7.4-1  Deleted: Table 7.4-1  Deleted: 20  Deleted: 20  Deleted: 20  Deleted: Table 7.4-1  Deleted: Table 7.4-1  De					Deleted: 12
R-251 - 263 Not applicable - TR-101 Paragraph 7  R-264 None - TR-101 Paragraph 7  R-265 None - Most of par 7 is under construction Deleted: Table 7.4-1  R-266 None - Most of par 7 is under construction Deleted: Table 7.4-1  R-268 Upstream Ethernet OAM Message Rate Limit  R-269 None - Deleted: Table 7.4-1  R-270 None - Deleted: Table 7.4-1  R-271 None - R-271 None - R-272 None - TBD Editor comment: Requires an activation command possibly with several parameters, such as the maintenance level involved. Applicability to this WT is TBD.  R-274 None - TR-101 Paragraph 7  R-266 None - Deleted: Table 7.4-1  Deleted: Table 7.4-1  Deleted: 20			-		
R-263   Not applicable   -   TR-101 Paragraph 7	R-250	None	-		
R-251 - 263					
R-264				Priority"	
R-265			-	TR-101 Paragraph 7	
R-266 None R-267 Upstream Ethernet OAM Message Rate Limit  R-268 Upstream Ethernet OAM Message Rate Limit  R-269 None R-270 None R-271 None R-272 None R-273 TBD  Table 7.4-1, (20)  Editor comment: Requires an activation command possibly with several parameters, such as the maintenance level involved. Applicability to this WT is TBD.  R-274 None  - Comment: Most of par. 7 is under construction peleted: Table 7.4-1 Deleted: 20  Deleted: Table 7.4-1  Deleted: Table 7.4-1  Deleted: Table 7.4-1  Deleted: 20			-		
R-266 None - Most of par. 7 is under construction Deleted: Table 7.4-1 (20) - Upstream Ethernet CAM Message Rate Limit  R-268 Upstream Ethernet OAM Message Rate Limit  R-269 None - Deleted: Table 7.4-1 (20) Deleted: Table 7.4-1 (20) Deleted: Table 7.4-1 (20) Deleted: 20  R-270 None - Deleted: Table 7.4-1 (20) Deleted: 20  R-271 None - Deleted: Table 7.4-1 (20) Deleted: 20  R-272 None - Deleted: Table 7.4-1 (20) Deleted: Table 7.4-1 (20) Deleted: 20  R-271 None - Deleted: Table 7.4-1 (20) Deleted: Table 7.4-1 (20) Deleted: 20  R-271 None - Deleted: Table 7.4-1 (20) Deleted: Table 7.4-1 (20) Deleted: Table 7.4-1 (20) Deleted: Table 7.4-1 (20) Deleted: 20  R-271 None - Deleted: Table 7.4-1 (20) Deleted: Table 7.4-	R-265	None	-	Editor	comment
R-267 Upstream Ethernet OAM Message Rate Limit  R-268 Upstream Ethernet OAM Message Rate Limit  R-269 None  R-270 None  R-271 None  R-272 None  R-273 TBD TBD Editor comment: Requires an activation command possibly with several parameters, such as the maintenance level involved. Applicability to this WT is TBD.  R-274 None  R-274 None	R-266		-	Most of r	
R-268	R-267	Upstream Ethernet	Table 7.4-1, (20)		
R-268 Upstream Ethernet OAM Message Rate Limit  R-269 None R-270 None R-271 None R-273 TBD TBD Editor comment: Requires an activation command possibly with several parameters, such as the maintenance level involved. Applicability to this WT is TBD.  R-274 None  -  R-274 None -  R-274 None -  R-274 None -  R-274 None -  R-274 None -  R-275  Table 7.4-1 Deleted: Tab		OAM Message Rate			
OAM Message Rate Limit  R-269 None - R-270 None - R-271 None - R-272 None - R-273 TBD TBD Editor comment: Requires an activation command possibly with several parameters, such as the maintenance level involved. Applicability to this WT is TBD.  R-274 None -		Limit			
Limit   R-269   None   -	R-268	Upstream Ethernet	Table 7.4-1 (20)		Deleted: Table 7.4-1
R-269		OAM Message Rate			Deleted: 20
R-270 None - R-271 None - R-272 None - TBD Editor comment: Requires an activation command possibly with several parameters, such as the maintenance level involved. Applicability to this WT is TBD.  R-274 None - R-274 None -		Limit			
R-271 None - R-272 None - TBD Editor comment: Requires an activation command possibly with several parameters, such as the maintenance level involved. Applicability to this WT is TBD.  R-274 None -	R-269	None	-		
R-272 None -  R-273 TBD TBD Editor comment: Requires an activation command possibly with several parameters, such as the maintenance level involved. Applicability to this WT is TBD.  R-274 None -	R-270	None	-		
R-273  TBD  TBD  Editor comment: Requires an activation command possibly with several parameters, such as the maintenance level involved. Applicability to this WT is TBD.  R-274  None  TBD  Editor comment: Requires an activation command possibly with several parameters, such as the maintenance level involved. Applicability to this	R-271	None	-		
Requires an activation command possibly with several parameters, such as the maintenance level involved.  Applicability to this WT is TBD.  R-274 None -		None	-		
activation command possibly with several parameters, such as the maintenance level involved.  Applicability to this WT is TBD.  R-274 None -	R-273	TBD	TBD	Editor comment:	
possibly with several parameters, such as the maintenance level involved.  Applicability to this WT is TBD.  R-274 None -				Requires an	
several parameters, such as the maintenance level involved. Applicability to this WT is TBD.  R-274 None -				activation command	
such as the maintenance level involved.  Applicability to this WT is TBD.  R-274 None -				possibly with	
such as the maintenance level involved.  Applicability to this WT is TBD.  R-274 None -				several parameters,	
involved. Applicability to this WT is TBD.  R-274 None -					
involved. Applicability to this WT is TBD.  R-274 None -				maintenance level	
R-274 None - WT is TBD.					
R-274 None - WT is TBD.				Applicability to this	
R-275 None -		None	-		
	R-275	None	-		

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WT-141 <u>Version 3.0</u>

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DSL Forum TR-101 Requirement Number	Managed Object Name	Managed Entity/ Managed Object (paragraph number)	Comments
R-276	TBD	TBD	Editor comment: Requires an activation command possibly with several parameters, such as the maintenance level involved. Applicability to this WT is TBD.
R-277	None	-	
R-278	None	-	
R-279	TBD	TBD	Requires a table with the "Peer MEP Name" as an index and the "Peer MAC Address" as RW info.  MEP Name structure is not in 802.1ag and is FFS
R-280	CCM Source	Table 7.19-1 (5)	
R-281	CCM Source	<u>Table 7.19-1, (5)</u>	
	CCM Sink	<u>Table 7.19-1, (6)</u>	
R-282	None	-	
R-283	"Server MEP" function Control	TBD	Editor comment: In the MEP Table should also have an object for "Server MEP" yes/no (RW)
R-284	None	-	• ,
R-285	None	-	

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DSL Forum TR-101 Requirement Number	Managed Object Name	Managed Entity/ Managed Object (paragraph number)	Comments
R-286	TBD	TBD	Editor comment: Requires an activation command possibly with several parameters, such as the maintenance level involved. Applicability to this WT is TBD.
R-287	None	-	
R-288	TBD	TBD	Editor comment: Requires an activation command possibly with several parameters, such as the maintenance level involved. Applicability to this WT is TBD.
R-289	None	-	
R-290	TBD	TBD	Editor comment: Requires a table with the "Peer MEP Name" as an index and the "Peer MAC Address" as RW info. MEP Name structure is not in 802.1ag and is FFS
R-291	CCM Source	<u>Table 7.19-1, (5)</u>	
R-292	CCM Source CCM Sink	<u>Table 7.19-1, (5)</u> <u>Table 7.19-1, (6)</u>	
R-293	None	-	
R-294	None	-	
R-295	TBD	TBD	
R-296	TBD	TBD	
R-297	TBD	TBD	

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DSL Forum TR-101 Requirement Number	Managed Object Name	Managed Entity/ Managed Object (paragraph number)	Comments		
R-298	None	-			
R-299	None	-			
R-300	None	-			
R-301 - 339	Not applicable	-			
R-340	TBD	TBD			
R-341	TBD	TBD			
R-342	TBD	TBD			
R-343	Access Loop	<u>Table 7.2-1 (2)</u>			Deleted: Table 7.2-1
	Configuration Profile				Deleted: 2
R-344	TBD	TBD			
R-345	TBD	TBD			
R-346	TBD	TBD			
R-347	TBD	TBD			
R-348	Not applicable	-			
R-349	Not applicable	-			
R-350	Not applicable	-			
R-351	Not applicable	-			
R-352	Not applicable	-			
Table <u><b>8.1,</b>-1:</u> '	TR-101 Requirements	Mapping to Manag	ged Objects		Deleted: 8.1

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