

DSL Forum Technical Report TR-113

MCM Specific Managed Objects in VDSL Network Element

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Abstract

This specification, in addition to the line-code-independent parameters specified in the VDSL Network Element Management Technical Report TR-057, is used for managing VDSL lines at the NE-EMS (Network Element to Element Management System) interface.

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1 Introduction

Managed objects are generally accessed through the use of the Simple Network Management Protocol (SNMP) and are required in numerous Auto-Configuration and Network Element Management specifications published by the DSL Forum. The Operations and Network Management Working Group of DSL Forum developed Technical Report – 057^[1], “VDSL Network Element Management”, and defines the line-code-independent parameters required for managing VDSL lines.

This document is for MCM line-code-specific managed objects that can be optionally used in certain cases such as for diagnostics and per band management, if preferred.

2 MCM Specific VDSL Configuration Parameters

The line-code-specific parameters that may be used for configuring an MCM VDSL line are defined in an IETF RFC 4070 “*Definitions of Managed Object Extension for Very High Speed Digital Subscriber Lines (VDSL) Using Multiple Carrier Modulation (MCM) Line Coding*”. This document is available at the following url

<http://www.fqs.org/rfcs/rfc4070.html>

The parameters are defined per each band used in a line configuration. It is assumed that line-code-specific configuration will be used only in special cases such as for testing, and may not be consistent with parameters configured through the Configuration Parameters of VDSL Network Element Management as described in TR-057 and RFC 3728^[2].

If used, this set of parameters should supersede VDSL Configuration Parameter configurations previously requested for Deployment Scenario and Spectrum Management and may not be consistent with configurations for Data Rate Management.

3 Summary

This Technical Report provides a pointer reference document to the IETF MCM specific VDSL MIB^[3].

4 References

- [1] DSL Forum TR-057: “VDSL Network Element Management”, February 2002.
- [2] RFC 3728: The VDSL line type agnostic MIB is approved and available as the following RFC. <http://www.fqs.org/rfc/rfc3728.html>.
- [3] RFC 4070 “Definitions of Managed Object Extension for Very High Speed Digital Subscriber Lines (VDSL) Using Multiple Carrier Modulation (MCM) Line Coding”. <http://www.fqs.org/rfcs/rfc4070.html>