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RAID Controller Diagnostics Profile

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RAID Controller Diagnostics Profile

Acknowledgments

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RAID Controller Diagnostics Profile

1 Scope

RAID Controller Diagnostics Profile

[Diagnostics Profile](#)

2 Normative references

CIM Infrastructure Specification 2.6

CIM Operations over HTTP 1.3

Management Profile Specification Usage Guide 1.0

Diagnostics Profile 2.0

Profile Registration Profile 1.0

Disk Drive Diagnostics Profile 1.0

ABNF: Augmented BNF for Syntax Specifications, January 2008

Rules for the structure and drafting of International Standards

3 Terms and definitions

4 Symbols and abbreviated terms

4.1

CDM

4.2

CIM

4.3

CIMOM

4.4

CRU

4.5

FRU

4.6

HDD

4.7

LBA

4.8

LED

4.9

ME

4.10

DSP1114

RAID Controller Diagnostics Profile

MOF

4.11
OS

4.12
PD

4.13
PFA

4.14
POST

4.15
RAID

4.16
SLP

4.17
WBEM

5 Synopsis

Profile Name:

Version:

Organization:

CIM schema version:

Central Class:

Scoping Class:

Specializes:

RAID Controller Diagnostics Profile

Table 1 – Referenced profiles

Profile name	Organization	Version	Description

6 Description

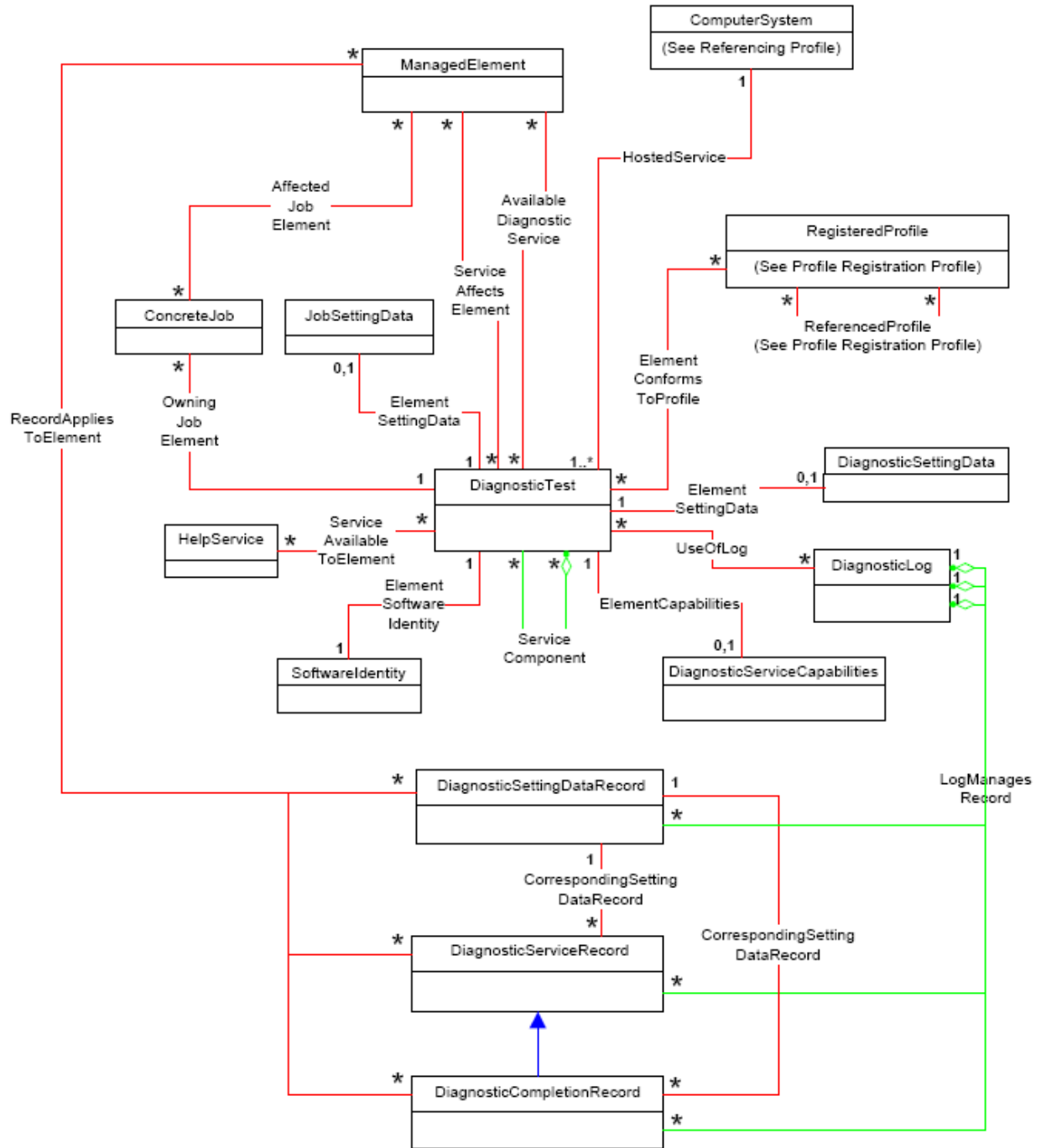


Figure 1 – RAID Controller Diagnostics Profile: Profile class diagram

7 Implementation

7.1 RAID controller test information

Table 2 – RAID controller test type information

Test name	Test information	
	Description	
	Coverage Range	
	User Control	
	Execution Time	
	Built into Device	
	Details	
	Coverage Area	
	Coverage Range	
	User Control	
	Execution Time	
	Built into Device	
	Details	
	Coverage Area	
	Coverage Range	
	User Control	
	Execution Time	
	Built into Device	
	Details	
	Coverage Area	
	Coverage Range	
	User Control	
	Execution Time	
	Built into Device	
	Details	
	Coverage Area	
	Coverage Range	
	User Control	
	Execution Time	
	Built into Device	
	Details	

Test name	Test information	
	Coverage Area	
	Coverage Range	
	User Control	
	Execution Time	
	Built into Device	
	Details	
	Coverage Area	
	Coverage Range	
	User Control	
	Execution Time	
	Built into Device	
	Details	
	Coverage Area	
	Coverage Range	
	User Control	
	Execution Time	
	Built into Device	
	Details	
	Coverage Area	
	Coverage Range	
	User Control	
	Execution Time	
	Built into Device	
	Details	

7.2 CIM_RAIDDiagnosticTest

Table 3 – CIM_RAIDDiagnosticTest property requirements

Test name	Criteria	ElementName*	RAIDTestType	TestType*

7.3 CIM_RAIDDiagnosticSettingData

Table 4 – CIM_RAIDDiagnosticSettingData property requirements

Test name	ElementName*	LBAStart	LBAEnd	Seed	TargetHDDs

7.3.1 CIM_RAIDDiagnosticSettingData.LBAStart

7.3.2 CIM_RAIDDiagnosticSettingData.LBAEnd

7.3.3 CIM_RAIDDiagnosticSettingData.Seed

7.3.4 CIM_RAIDDiagnosticSettingData.TargetHDDs

7.4 CIM_RAIDDiagnosticServiceCapabilities

Table 5 – CIM_RAIDDiagnosticServiceCapabilities property requirements

Test name	ElementName*	Region	Seed	TargetHDDs

7.4.1 CIM_RAIDDiagnosticServiceCapabilities.RegionSupported

7.4.2 CIM_RAIDDiagnosticServiceCapabilities.SeedSupported

7.4.3 CIM_RAIDDiagnosticServiceCapabilities.TargetHDDsSupported

8 Methods

8.1 CIM_RAIDDiagnosticTest.RunDiagnosticService()

—

8.2 Profile conventions for operations

[Diagnostics Profile](#)

9 Use cases

RAID Controller Diagnostics Profile

[Diagnostics Profile](#)

9.1 Use case summary

Table 6 – RAID Controller Diagnostics Profile use cases

Category	Test name	Description

Diagnostics Profile

-
-
-

9.2 Steps to perform a use case

Table 8 – Class: CIM_RAIDDiagnosticTest

Elements	Requirement	Notes

10.2 CIM_RAIDDiagnosticSettingData

[Profile](#)
[Diagnostics Profile](#)

[Diagnostics](#)
[Diagnostics Profile](#)

Table 9 – Class: CIM_RAIDDiagnosticSettingData

Elements	Requirement	Notes

10.3 CIM_RAIDDiagnosticServiceCapabilities

[Diagnostics Profile](#)
[Diagnostics Profile](#) [Diagnostics Profile](#)

Table 10 – Class: CIM_RAIDDiagnosticServiceCapabilities

Elements	Requirement	Notes

10.4 CIM_RegisteredProfile

[Registration Profile](#) [Profile Registration Profile](#) [Profile Registration Profile](#) [Profile](#)

Table 11 – Class: CIM_RegisteredProfile

Elements	Requirement	Notes
		be "RAID Controller Diagnostics"
		be "1.0.0"

10.5 CIM_AffectedJobElement

[Diagnostics Profile](#)

[Diagnostics Profile](#)

[Diagnostics Profile](#)

Table 12 – Class: CIM_AffectedJobElement

Properties	Requirement	Notes

10.6 CIM_AvailableDiagnosticService

[Diagnostics Profile](#)

[Diagnostics Profile](#)

[Diagnostics Profile](#)

Table 13 – Class: CIM_AvailableDiagnosticService

Properties	Requirement	Notes

10.7 CIM_ElementCapabilities

[Diagnostics Profile](#)

[Diagnostics Profile](#)

[Diagnostics Profile](#)

Table 14 – Class: CIM_ElementCapabilities

Properties	Requirement	Notes

10.8 CIM_ElementSettingData (DiagnosticSettingData)

[Diagnostics Profile](#)

[Diagnostics Profile](#)

[Diagnostics Profile](#)

Table 15 – Class: CIM_ElementSettingData

Properties	Requirement	Notes

10.9 CIM_ElementSettingData (JobSettingData)

[Diagnostics Profile](#)

[Diagnostics Profile](#)

[Diagnostics Profile](#)

Table 16 – Class: CIM_ElementSettingData

Properties	Requirement	Notes

10.10 CIM_ElementSoftwareIdentity

[Diagnostics Profile](#)

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Table 17 – Class: CIM_ElementSoftwareIdentity

Properties	Requirement	Notes

10.11 CIM_HostedService

[Diagnostics Profile](#)

[Diagnostics Profile](#)

[Diagnostics Profile](#)

Table 18 – Class: CIM_HostedService

Properties	Requirement	Notes

10.12 CIM_OwningJobElement

[Diagnostics Profile](#)

[Diagnostics Profile](#)

[Diagnostics Profile](#)

Table 19 – Class: CIM_OwningJobElement

Properties	Requirement	Notes

10.13 CIM_RecordAppliesToElement

[Diagnostics Profile](#)

[Diagnostics Profile](#)

[Diagnostics Profile](#)

Table 20 – Class: CIM_RecordAppliesToElement

Properties	Requirement	Notes

10.14 CIM_ServiceAffectsElement

[Diagnostics Profile](#)

[Diagnostics Profile](#)

[Diagnostics Profile](#)

Table 21 – Class: CIM_ServiceAffectsElement

Properties	Requirement	Notes

10.15 CIM_ServiceAvailableToElement

[Diagnostics Profile](#)

[Diagnostics Profile](#)

[Diagnostics Profile](#)

Table 22 – Class: CIM_ServiceAvailableToElement

Properties	Requirement	Notes

10.16 CIM_ServiceComponent

[Diagnostics Profile](#)

[Diagnostics Profile](#)

[Diagnostics Profile](#)

Table 23 – Class: CIM_ServiceComponent

Properties	Requirement	Notes

10.17 CIM_UseOfLog

[Diagnostics Profile](#)

[Diagnostics Profile](#)

[Diagnostics Profile](#)

Table 24 – Class: CIM_UseOfLog

Properties	Requirement	Notes

Annex A

Change Log

Version	Date	Description