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## 5 Record Log Profile

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- 32 This document's normative language is English. Translation into other languages is permitted.
- 33

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## Foreword

121 The *Record Log Profile* (DSP1010) was prepared by the Physical Platform Profiles Working Group.

122 DMTF is a not-for-profit association of industry members dedicated to promoting enterprise and systems  
123 management and interoperability. For information about the DMTF, see <http://www.dmtf.org>.

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143

## Introduction

144 This document defines classes to describe the record logs of a managed system element. Also included  
145 are descriptions of the associations that can be used to associate the record log classes to DMTF profile  
146 version information. The information in this specification should be sufficient for a provider or consumer of  
147 this data to identify unambiguously the classes, properties, methods, and values that shall be instantiated  
148 and manipulated to represent and manage record logs of managed system elements and subsystems  
149 modeled using the DMTF CIM core and extended model definitions.

150 The target audience for this specification is implementers who are writing CIM-based providers or  
151 consumers of management interfaces that represent the component described in this document.

### 152 Document conventions

#### 153 Typographical conventions

154 The following typographical conventions are used in this document:

- 155 • Document titles are marked in *italics*.

156

# Record Log Profile

157

## 1 Scope

158 The *Record Log Profile* is an autonomous profile that provides the management capabilities to represent  
159 logs of a managed system element. The log is modeled as referencing the managed system elements  
160 that populate the log, and the profile registration for the schema implementation version information.

161

## 2 Normative references

162 The following referenced documents are indispensable for the application of this document. For dated or  
163 versioned references, only the edition cited (including any corrigenda or DMTF update versions) applies.  
164 For references without a date or version, the latest published edition of the referenced document  
165 (including any corrigenda or DMTF update versions) applies.

166 DMTF DSP0004, *CIM Infrastructure Specification 2.5*,  
[http://www.dmtf.org/standards/published\\_documents/DSP0004\\_2.5.pdf](http://www.dmtf.org/standards/published_documents/DSP0004_2.5.pdf)

168 DMTF DSP0200, *CIM Operations over HTTP 1.3*,  
[http://www.dmtf.org/standards/published\\_documents/DSP0200\\_1.3.pdf](http://www.dmtf.org/standards/published_documents/DSP0200_1.3.pdf)

170 DMTF DSP0228, *Message Registry XML Schema 1.1*,  
[http://schemas.dmtf.org/wbem/messageregistry/1/dsp0228\\_1.1.xsd](http://schemas.dmtf.org/wbem/messageregistry/1/dsp0228_1.1.xsd)

172 DMTF DSP1001, *Management Profile Specification Usage Guide 1.0*,  
[http://www.dmtf.org/standards/published\\_documents/DSP1001\\_1.0.pdf](http://www.dmtf.org/standards/published_documents/DSP1001_1.0.pdf)

174 DMTF DSP1033, *Profile Registration Profile 1.0*,  
[http://www.dmtf.org/standards/published\\_documents/DSP1033\\_1.0.pdf](http://www.dmtf.org/standards/published_documents/DSP1033_1.0.pdf)

176 DMTF DSP8007, *Platform Message Registry 1.1*,  
[http://schemas.dmtf.org/wbem/messageregistry/1/dsp8007\\_1.1.xml](http://schemas.dmtf.org/wbem/messageregistry/1/dsp8007_1.1.xml)

178 ISO/IEC Directives, Part 2, *Rules for the structure and drafting of International Standards*,  
<http://isotc.iso.org/livelink/livelink.exe?func=ll&objId=4230456&objAction=browse&sort=subtype>

180

## 3 Terms and definitions

181 In this document, some terms have a specific meaning beyond the normal English meaning. Those terms  
182 are defined in this clause.

183 The terms "shall" ("required"), "shall not," "should" ("recommended"), "should not" ("not recommended"),  
184 "may," "need not" ("not required"), "can" and "cannot" in this document are to be interpreted as described  
185 in [ISO/IEC Directives, Part 2](#), Annex H. The terms in parenthesis are alternatives for the preceding term,  
186 for use in exceptional cases when the preceding term cannot be used for linguistic reasons. Note that  
187 [ISO/IEC Directives, Part 2](#), Annex H specifies additional alternatives. Occurrences of such additional  
188 alternatives shall be interpreted in their normal English meaning.

189 The terms "clause," "subclause," "paragraph," and "annex" in this document are to be interpreted as  
190 described in [ISO/IEC Directives, Part 2](#), Clause 5.

191 The terms "normative" and "informative" in this document are to be interpreted as described in [ISO/IEC](#)  
192 [Directives, Part 2](#), Clause 3. In this document, clauses, subclauses, or annexes labeled "(informative)" do  
193 not contain normative content. Notes and examples are always informative elements.

194 The terms defined in [DSP0004](#), [DSP0200](#), and [DSP1001](#) apply to this document. The following additional  
195 terms are used in this document.

### 196 **3.1**

#### 197 **Record Data Format**

198 refers to a log entry where the LogEntry data is contained in RecordData property whose data structure is  
199 described by RecordFormat property.

### 200 **3.2**

#### 201 **referencing profile**

202 indicates a profile that owns the definition of this class and can include a reference to this profile in its  
203 "Referenced Profiles" table

### 204 **3.3**

#### 205 **Standard Message Format**

206 refers to a log entry where the LogEntry data is contained in Message and/or MessageArguments  
207 properties

### 208 **3.4**

#### 209 **unspecified**

210 indicates that this profile does not define any constraints for the referenced CIM element or operation

## 211 **4 Symbols and abbreviated terms**

212 The following symbols and abbreviations are used in this document.

### 213 **4.1**

#### 214 **LIFO**

215 Last In, First Out

## 216 **5 Synopsis**

217 **Profile Name:** Record Log

218 **Version:** 2.0.0

219 **Organization:** DMTF

220 **CIM Schema Version:** 2.25

221 **Central Class:** CIM\_RecordLog

222 **Scoping Class:** CIM\_RecordLog

223 The *Record Log Profile* is an autonomous profile that provides the management capabilities to represent  
224 logs of a managed system element. Version 2.0.0 of the *Record Log Profile* adds the standard message  
225 format capability to the logs. The CIM\_EnabledLogicalElementCapabilities class that was previously  
226 Optional was subclassed as CIM\_RecordLogCapabilities and is now Mandatory.

227 Table 1 identifies profiles on which this profile has a dependency.

228

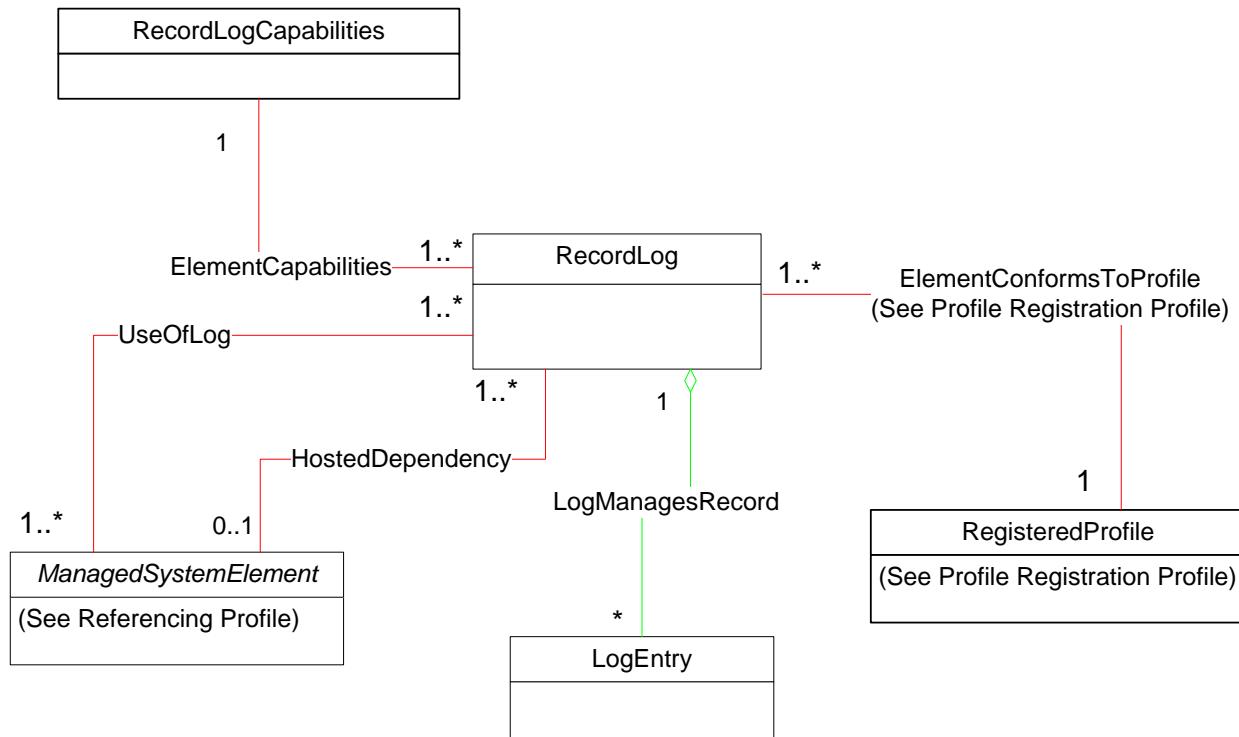
**Table 1 – Related Profiles**

Profile Name	Organization	Version	Requirement	Description
Profile Registration	DMTF	1.0.	Mandatory	None

## 229 6 Description

230 The *Record Log Profile* describes the properties and methods of logs generated by the managed system  
 231 element or component. This profile describes the association between the managed system element and  
 232 the generated logs as well as how individual log entries are contained within a record log.

233 Figure 1 represents the class schema for the *Record Log Profile*. For simplicity, the prefix CIM\_ has been  
 234 removed from the names of the classes.



235

**Figure 1 – Record Log Profile: Class diagram**

236 The CIM\_RecordLog class represents the container for the log entries. The individual log entries, which  
 237 are represented by the CIM\_LogEntry instances, are aggregated under the CIM\_RecordLog instance  
 238 through the CIM\_LogManagesRecord association. The managed system element that is associated with  
 239 the log, uses the log, or populates the log is referenced through the CIM\_UseOfLog association.

240 The CIM\_LogEntry class contains properties describing the information about individual records, such as  
 241 message text and timestamp. CIM\_RecordLog describes the general properties of the log, such as its  
 242 maximal length and state.

## 244 **7 Implementation**

245 This clause details the requirements and guidelines related to the arrangement of instances and their  
246 properties for implementations of this profile. For a list of all required methods, see 8 (“Methods”). For  
247 properties, see 10 (“CIM Elements”).

### 248 **7.1 Representing logs**

249 Each log in a managed system shall be represented by a single instance of CIM\_RecordLog. Each entry  
250 in the log shall be represented by a single instance of CIM\_LogEntry. The entries of the log, which are  
251 represented by the instances of CIM\_LogEntry, shall be associated through the instance of  
252 CIM\_LogManagesRecord to the instance of CIM\_RecordLog.

#### 253 **7.1.1 CIM\_LogEntry.LogInstanceId**

254 The CIM\_LogEntry.LogInstanceId shall have the same value as the InstanceID property of the instance  
255 of CIM\_RecordLog that is associated with the instance CIM\_LogEntry through an instance of  
256 CIM\_LogManagesRecord.

#### 257 **7.1.2 CIM\_LogEntry.LogName**

258 The CIM\_LogEntry.LogName shall have the same value as the ElementName property of the instance of  
259 CIM\_RecordLog that is associated with the instance CIM\_LogEntry through an instance of  
260 CIM\_LogManagesRecord.

#### 261 **7.1.3 CIM\_LogEntry data**

262 The CIM\_LogEntry data information shall be implemented using one or more of the following formats:

- 263 • Record Data Format
- 264 • Standard Message Format

##### 265 **7.1.3.1 When the CIM\_LogEntry implements the Record Data Format**

266 When the Record Data Format is supported for a log entry the  
267 CIM\_RecordLogCapabilities.SupportedRecordTypes property shall include the value 2 (Record Data) and  
268 it shall be implemented as described in the following clauses.

###### 269 **7.1.3.1.1 CIM\_LogEntry.RecordData**

270 The CIM\_LogEntry.RecordData property shall be implemented. The RecordData property shall be non-  
271 NULL and shall contain information about the log entry.

###### 272 **7.1.3.1.2 CIM\_LogEntry.RecordFormat**

273 The CIM\_LogEntry.RecordFormat property shall be implemented if the RecordData property is  
274 implemented (non-NULL). The RecordFormat property shall specify the format of the data provided by the  
275 RecordData property.

##### 276 **7.1.3.2 When the CIM\_LogEntry does not implement the Record Data Format**

277 If the Record Data Format is not supported for the log entry, the RecordData and RecordFormat  
278 properties shall be NULL.

279 **7.1.3.3 When the CIM\_LogEntry implements the Standard Message Format**

280 When the Standard Message Format is supported for a log entry, the SupportedRecordTypes property  
281 shall include the value 3 (Standard Messages) and it shall be implemented as described in the following  
282 clauses. The implementation will need to implement at least one of the following properties: Message  
283 and/or MessageArguments.

284 **7.1.3.3.1 CIM\_LogEntry.MessageID**

285 The CIM\_LogEntry.MessageID property shall be specified. The value of the MessageID property conveys  
286 a message from a message registry and shall be set to the concatenation of the PREFIX and  
287 SEQUENCE\_NUMBER attribute values, as specified in the message registry (that is, no further padding  
288 or adjustment of these values takes place).

289 **7.1.3.3.2 CIM\_LogEntry.Message**

290 The CIM\_LogEntry.Message property may be implemented.

291 If the MessageArguments property is NULL (not implemented), then the Message property shall be  
292 implemented and the value of the Message property shall be non-NUL.

293 If the MessageArguments property is non-NUL (implemented) and the Message property is not  
294 implemented, then the value of the Message property shall be NULL.

295 **7.1.3.3.3 CIM\_LogEntry.MessageArguments**

296 The CIM\_LogEntry.MessageArguments property may be implemented.

297 If the Message property is NULL (not implemented), then the MessageArguments property shall be  
298 implemented and the value of the MessageArguments property shall be non-NUL.

299 If the Message property is non-NUL (implemented) and the MessageArguments property is not  
300 implemented, then the value of the MessageArguments shall be NULL.

301 If the MessageArguments property is implemented but the message does not contain any dynamic  
302 elements, then the MessageArguments property shall be implemented as an empty array. Otherwise the  
303 MessageArguments property shall contain the values for all of the dynamic elements for the message.

304 **7.1.3.3.4 CIM\_LogEntry.PerceivedSeverity**

305 The CIM\_LogEntry.PerceivedSeverity property shall be specified if the implementation is supporting  
306 Standard Messages.

307 **7.1.3.3.5 CIM\_LogEntry.OwningEntity**

308 The CIM\_LogEntry.OwningEntity property shall be specified if the implementation is supporting Standard  
309 Messages.

310 **7.1.3.4 When CIM\_LogEntry does not implement the Standard Message Format**

311 When Standard Message Format is not supported for a log entry the associated properties shall be  
312 NULL. These properties are:

313     • MessageID

314     • Message

315     • MessageArguments

- 316        • PerceivedSeverity  
317        • OwningEntity

## 318 **7.2 CIM\_RecordLogCapabilities**

319 There shall be an instance of CIM\_RecordLogCapabilities that specifies the capabilities of the associated  
320 record log. The instance of CIM\_RecordLogCapabilities shall be associated with the CIM\_RecordLog  
321 instance through an instance of CIM\_ElementCapabilities and be used for advertising the capabilities of  
322 the CIM\_RecordLog instance.

323 There shall be at most one instance of CIM\_RecordLogCapabilities associated with a given instance of  
324 CIM\_RecordLog.

### 325 **7.2.1 CIM\_RecordLogCapabilities.SupportedRecordTypes**

326 The CIM\_RecordLogCapabilities.SupportedRecordTypes property shall indicate which formats are  
327 supported by the implementation. A Record Log shall support at least one of the following formats:  
328 Record Data Format and/or Standard Message Format. . If both the Record Data Format and Standard  
329 Message Format are supported the client will need to check the individual property values to determine  
330 which format is available in each individual log entry.

331 At least one format shall be implemented and specified in the SupportedRecordTypes property of the  
332 CIM\_RecordLogCapabilities instance. The SupportedRecordTypes property shall be non-NULL and shall  
333 not be an empty array.

#### 334 **7.2.1.1 SupportedRecordTypes with only Record Data Format**

335 If the SupportedRecordTypes property contains only 2 (Record Data), then the RecordData and  
336 RecordFormat properties of all instances of CIM\_LogEntry associated with the instance of  
337 CIM\_RecordLog shall be Non-NULL.

#### 338 **7.2.1.2 SupportedRecordTypes with only Standard Message Format**

339 If the SupportedRecordTypes property contains only 3 (Standard Messages), then the PerceivedSeverity,  
340 OwningEntity, MessageID properties and at least one of the properties Message and MessageArguments  
341 of all instances of CIM\_LogEntry associated with the instance of CIM\_RecordLog shall be Non-NULL.

#### 342 **7.2.1.3 SupportedRecordTypes with Record Data and Standard Message Formats**

343 If the SupportedRecordTypes property contains only 2 (Record Data) and 3 (Standard Messages) the  
344 following conditions shall be implemented.

345 If the MessageID property of an instance of CIM\_LogEntry associated with the instance of  
346 CIM\_RecordLog is NULL, then the RecordData and RecordFormat properties of the instance of  
347 CIM\_LogEntry shall be non-NULL.

348 If the RecordData and RecordFormat properties of an instance of CIM\_LogEntry associated with the  
349 instance of CIM\_RecordLog are NULL, then the PerceivedSeverity, OwningEntity, MessageID properties  
350 and at least one of the properties Message and MessageArguments of the instance of CIM\_LogEntry  
351 shall be non-NULL.

### 352 **7.2.2 CIM\_RecordLogCapabilities.RequestedStatesSupported**

353 The CIM\_RecordLogCapabilities.RequestedStatesSupported property is an array that contains the  
354 supported requested states for the instance of CIM\_RecordLog. This property shall be the super set of  
355 the values to be used as the RequestedState parameter in the RequestStateChange( ) method (see 8.2).

356 The value of the CIM\_RecordLogCapabilities.RequestedStatesSupported property shall be an empty  
357 array or any combination of the following values: 2 (Enabled), 3 (Disabled), or 11 (Reset).

### 358 **7.2.3 CIM\_RecordLogCapabilities.ElementNameEditSupported**

359 The CIM\_RecordLogCapabilities.ElementNameEditSupported property shall have a value of TRUE when  
360 the implementation supports client modification of the CIM\_RecordLog.ElementName property.

### 361 **7.2.4 CIM\_RecordLogCapabilities.MaxElementNameLen**

362 The MaxElementNameLen property shall be implemented when the ElementNameEditSupported  
363 property has a value of TRUE.

### 364 **7.2.5 CIM\_RecordLogCapabilities.MethodsSupported**

365 CIM\_RecordLogCapabilities.MethodsSupported may be implemented.

366 If this property contains a value of 2 (ClearLog), then ClearLog() method shall be implemented.

## 367 **7.3 Log state management (optional)**

368 Log state management consists of the CIM\_RecordLog.RequestStateChange( ) method being supported  
369 (see 8.2) and the value of the CIM\_RecordLog.RequestedState not matching 12 (Not Applicable).

### 370 **7.3.1 Log state management support**

371 When a CIM\_RecordLogCapabilities.RequestedStatesSupported property is an empty array, log state  
372 management shall not be supported.

373 When a CIM\_RecordLogCapabilities instance is associated with the CIM\_RecordLog instance and the  
374 value of the CIM\_RecordLogCapabilities.RequestedStatesSupported property is not an empty array, log  
375 state management shall be supported.

## 376 **7.4 CIM\_RecordLog.RequestedState**

377 The CIM\_RecordLog.RequestedState property shall have a value of 12 (Not Applicable), 5 (No Change),  
378 or a value contained in the CIM\_RecordLogCapabilities.RequestedStatesSupported property array of the  
379 associated CIM\_RecordLogCapabilities instance (see 7.2.2).

380 When log state management is supported and the RequestStateChange( ) method is successfully  
381 executed, the RequestedState property shall be set to the value of the RequestedState parameter of the  
382 RequestStateChange( ) method. After the RequestStateChange( ) method has successfully executed, the  
383 RequestedState and EnabledState parameters shall have equal values, with the exception of the  
384 transitional requested state 11 (Reset). The value of the RequestedState property may also change as a  
385 result of a non-CIM implementation's request for a change to the log's enabled state.

### 386 **7.4.1 RequestedState — 12 (Not Applicable) value**

387 When log state management is not supported, the value of the CIM\_RecordLog.RequestedState property  
388 shall be 12 (Not Applicable).

### 389 **7.4.2 RequestedState — 5 (No Change) value**

390 When log state management is supported, the initial value of the CIM\_RecordLog.RequestedState  
391 property shall be 5 (No Change).

392 **7.5 Representing log state**

393 The log's state shall be represented by two properties: CIM\_RecordLog.EnabledState (see 7.5.1) and  
 394 CIM\_RecordLog.LogState (see 7.5.2).

395 **7.5.1 CIM\_RecordLog.EnabledState**

396 Table 2 describes the mapping between the values of the CIM\_RecordLog.EnabledState property and the  
 397 corresponding description of the state of the log. The CIM\_RecordLog.EnabledState property shall match  
 398 the values that are specified in Table 2. When the RequestStateChange() method executes but does not  
 399 complete successfully and the log is in an indeterminate state, the CIM\_RecordLog.EnabledState  
 400 property shall have a value of 5 (Not Applicable). The value of this property may also change as a result  
 401 of a non-CIM implementation's change to the log's enabled state.

402 **Table 2 – EnabledState Value Description**

Value	Description	Extended Description
2	Enabled	Log shall be enabled; new log entries may be added.
3	Disabled	Log shall be disabled; new log entries shall not be added.
5	Not Applicable	Log state is indeterminate, or the log state management is not supported.
6	Enabled but Offline	Log shall be enabled, but new log entries shall not be added. See 7.5.1.1.

403 **7.5.1.1 CIM\_RecordLog.EnabledState — 6 (Enabled but Offline) value**

404 When the log is enabled but has reached its maximum capacity of entries and the  
 405 CIM\_RecordLog.OverwritePolicy property has a value of 7 (Never Overwrites), the  
 406 CIM\_RecordLog.EnabledState property shall have a value of 6 (Enabled but Offline).

407 When the CIM\_RecordLog.OverwritePolicy property has a value of 2 (Wraps When Full), the  
 408 CIM\_RecordLog.EnabledState property shall not have a value of 6 (Enabled but Offline).

409 **7.5.2 CIM\_RecordLog.LogState**

410 The CIM\_RecordLog.LogState property is used to describe a more granular state of the log than that of  
 411 the CIM\_RecordLog.EnabledState property. Table 3 describes the mapping between the values of the  
 412 CIM\_RecordLog.LogState property and the corresponding description of the granular state of the log. The  
 413 CIM\_RecordLog.LogState property shall match the values that are specified in Table 3. Additionally,  
 414 Table 3 describes the mapping between the LogState property and the EnabledState property. When the  
 415 CIM\_RecordLog.LogState property has a value that matches the value in the "LogState Value" column in  
 416 Table 3, the CIM\_RecordLog.EnabledState property shall have a value that matches the value in the  
 417 "EnabledState Value" column for that row.

418 **Table 3 – LogState value description and mapping to EnabledState value**

LogState Value	Description	EnabledState Value	Extended Description
0	Unknown	5 (Not Applicable)	See the "Extended Description" column of Table 2 for the corresponding EnabledState value.
2	Normal	2 (Enabled)	See the "Extended Description" column of Table 2 for the corresponding EnabledState value.

LogState Value	Description	EnabledState Value	Extended Description
3	Erasing	Any value in Table 2	Log shall be in the process of erasing its entries. See 7.5.2.1.
4	Not Applicable	Any value in Table 2	LogState property is not used to describe more granular state of the log, and EnabledState property shall be used only to represent the log state.

419 **7.5.2.1 CIM\_RecordLog.LogState — 3 (Erasing) value**

420 The instrumentation may be able to represent the transitional states of the log, such as the state when the  
 421 log entries are being cleared. When the log is being cleared through the invocation of the ClearLog()  
 422 method or by a non-CIM implementation, the CIM\_RecordLog.LogState property shall have a value of 3  
 423 (Erasing).

424 **7.6 CIM\_UseOfLog**

425 At least one instance of the CIM\_UseOfLog association shall reference an instance of CIM\_RecordLog  
 426 and an instance of the subclass of CIM\_ManagedSystemElement.

427 **7.7 CIM\_HostedDependency**

428 An instance of the CIM\_HostedDependency association may reference an instance of CIM\_RecordLog  
 429 and an instance of the subclass of CIM\_ManagedSystemElement.

430 **7.8 CIM\_RecordLog.OverwritePolicy property**

431 The CIM\_RecordLog.OverwritePolicy property indicates the behavior of the log when it has reached the  
 432 maximum capacity of its entries. The CIM\_RecordLog.OverwritePolicy property also affects the  
 433 CIM\_RecordLog.EnabledState property, as described in 7.5.1.1.

434 The log could be designed such that when the log reaches its maximum capacity, new entries would  
 435 overwrite the oldest entries. An example of this type of log would be circular buffer logs.

436 When the new log entries overwrite the old log entries, the CIM\_RecordLog.OverwritePolicy property has  
 437 a value of 2 (Wraps When Full). When the new log entries never overwrite the old log entries, the  
 438 CIM\_RecordLog.OverwritePolicy property has a value of 7 (Never Overwrites).

439 **8 Methods**

440 This clause details the requirements for supporting intrinsic operations and extrinsic methods for the CIM  
 441 elements defined by this profile.

442 **8.1 CIM\_RecordLog.ClearLog()**

443 The CIM\_RecordLog.ClearLog() method is used to request the deletion of all entries in the record log for  
 444 an instance of CIM\_RecordLog. If the CIM\_RecordLogCapabilities.MethodsSupported property contains  
 445 a value of 2 (ClearLog) then the implementation shall support ClearLog() method.

446 A return code value of zero shall indicate that the clearing of the log entries was successfully initiated.

447 CIM\_RecordLog.ClearLog() return code values shall be as specified in Table 4.

448 No parameters or standard messages are defined for the CIM\_RecordLog.ClearLog() method.

449

450

**Table 4 – CIM\_RecordLog.ClearLog() method: Return code values**

Value	Description
0	Request was successfully executed.
1	Method is not supported in the implementation.
2	Error occurred

## 451    8.2 CIM\_RecordLog.RequestStateChange()

452    Invocation of the CIM\_RecordLog.RequestStateChange( ) method shall attempt to change the element's  
 453    state to the value that is specified in the RequestedState parameter.

454    Return code values for the RequestStateChange( ) method shall be as specified in Table 5 where the  
 455    method-execution behavior matches the return-code description. Parameters for the  
 456    RequestStateChange( ) method are specified in Table 6.

457    When log state management is supported, the RequestStateChange( ) method shall be implemented and  
 458    shall not return a value of 1 (Not Supported) (see 7.3.1).

459    When the RequestedState parameter is set to 2 (Enabled) but the CIM\_RecordLog.EnabledState  
 460    property has a value of 6 (Enabled but Offline), the RequestStateChange( ) method invocation shall return  
 461    2 (Error Occurred).

462    Invoking the CIM\_RecordLog.RequestStateChange( ) method multiple times could result in earlier  
 463    requests being overwritten or lost.

464    No standard messages are defined for this method.

**Table 5 – CIM\_RecordLog.RequestStateChange() method: Return code values**

Value	Description
0	Request was successfully executed.
1	Method is not supported in the implementation.
2	Error occurred
4096	Job started

**Table 6 – CIM\_RecordLog.RequestStateChange() method: Parameters**

Qualifiers	Name	Type	Description/Values
IN, REQ	RequestedState	uint16	State: 2 (Enabled) 3 (Disabled) 11 (Reset)
OUT	Job	CIM_ConcreteJob REF	Returned if job started.

Qualifiers	Name	Type	Description/Values
IN, REQ	TimeoutPeriod	Datetime	<p>Client-specified maximum amount of time that the transition to a new state is supposed to take:</p> <p>0 or NULL — No time requirements  &lt;interval&gt; — Maximum time allowed</p>

### 467 8.3 Profile conventions for operations

468 This profile specification defines operations in terms of [DSP0200](#).

469 For each profile class (including associations), the implementation requirements for operations, including  
470 those in the following default list, are specified in class-specific subclauses of this clause.

471 The default list of operations is as follows:

- 472 • `Associators()`
- 473 • `AssociatorNames()`
- 474 • `EnumerateInstances()`
- 475 • `EnumerateInstanceNames()`
- 476 • `GetInstance()`
- 477 • `References()`
- 478 • `ReferenceNames()`

### 479 8.4 CIM\_ElementCapabilities

480 Table 7 lists implementation requirements for operations. If implemented, these operations shall be  
481 implemented as defined in [DSP0200](#). In addition, and unless otherwise stated in Table 7, all operations in  
482 the default list in 8.3 shall be implemented as defined in [DSP0200](#).

483 NOTE: Related profiles may define additional requirements on operations for the profile class.

484 **Table 7 – Operations: CIM\_ElementCapabilities**

Operation	Requirement	Messages
<code>Associators</code>	Unspecified	None
<code>AssociatorNames</code>	Unspecified	None
<code>References</code>	Unspecified	None
<code>ReferenceNames</code>	Unspecified	None

### 485 8.5 CIM\_RecordLogCapabilities

486 All operations in the default list in 8.3 shall be implemented as defined in [DSP0200](#).

487 NOTE: Related profiles may define additional requirements on operations for the profile class.

488 **8.6 CIM\_RecordLog**

489 Table 8 lists implementation requirements for operations. If implemented, these operations shall be  
 490 implemented as defined in [DSP0200](#). In addition, and unless otherwise stated in Table 8, all operations in  
 491 the default list in 8.3 shall be implemented as defined in [DSP0200](#).

492 NOTE: Related profiles may define additional requirements on operations for the profile class.

493 **Table 8 – Operations: CIM\_RecordLog**

Operation	Requirement	Messages
ModifyInstance	Optional: See 8.6.1.	None

494 **8.6.1 CIM\_RecordLog — ModifyInstance**

495 This clause details the requirements for the ModifyInstance operation applied to an instance of  
 496 CIM\_RecordLog. The ModifyInstance operation may be supported.

497 The ModifyInstance operation shall be supported and CIM\_RecordLog.ElementName shall be modifiable  
 498 when the ElementNameEditSupported property of the CIM\_EnabledLogicalElementCapabilities instance  
 499 that is associated with the CIM\_RecordLog instance has a value of TRUE. See 8.6.2.

500 **8.6.2 CIM\_RecordLog.ElementName**

501 When the ElementNameEditSupported property of the CIM\_EnabledLogicalElementCapabilities instance  
 502 that is associated with the CIM\_RecordLog instance has a value of TRUE, the implementation shall allow  
 503 the ModifyInstance operation to change the value of the ElementName property of the CIM\_RecordLog  
 504 instance. The ModifyInstance operation shall enforce the length restriction specified in the  
 505 MaxElementNameLen property of the CIM\_EnabledLogicalElementCapabilities instance.

506 When the associated CIM\_EnabledLogicalElementCapabilities instance does not exist or the  
 507 ElementNameEditSupported property of the associated CIM\_EnabledLogicalElementCapabilities  
 508 instance has a value of FALSE, the implementation shall not allow the ModifyInstance operation to  
 509 change the value of the ElementName property of the CIM\_RecordLog instance.

510 **8.7 CIM\_LogEntry**

511 Table 9 lists implementation requirements for operations. If implemented, these operations shall be  
 512 implemented as defined in [DSP0200](#). In addition, and unless otherwise stated in Table 9, all operations in  
 513 the default list in 8.3 shall be implemented as defined in [DSP0200](#).

514 NOTE: Related profiles may define additional requirements on operations for the profile class.

515 **Table 9 – Operations: CIM\_LogEntry**

Operation	Requirement	Messages
DeleteInstance	Optional: See clause 8.7.1 for additional requirements.	None

516 **8.7.1 CIM\_LogEntry DeleteInstance**

517 CIM\_LogEntry DeleteInstance operation shall be optional. The implementation shall also remove any  
 518 association instances that reference the instance of CIM\_LogEntry, including the instance of  
 519 CIM\_LogManagesRecord.

520 **8.8 CIM\_UseOfLog**

521 Table 10 lists implementation requirements for operations. If implemented, these operations shall be  
 522 implemented as defined in [DSP0200](#). In addition, and unless otherwise stated in Table 10, all operations  
 523 in the default list in 8.3 shall be implemented as defined in [DSP0200](#).

524 NOTE: Related profiles may define additional requirements on operations for the profile class.

525 **Table 10 – Operations: CIM\_UseOfLog**

Operation	Requirement	Messages
Associators	Unspecified	None
AssociatorNames	Unspecified	None
References	Unspecified	None
ReferenceNames	Unspecified	None

526 **8.9 CIM\_LogManagesRecord**

527 Table 11 lists implementation requirements for operations. If implemented, these operations shall be  
 528 implemented as defined in [DSP0200](#). In addition, and unless otherwise stated in Table 11, all operations  
 529 in the default list in 8.3 shall be implemented as defined in [DSP0200](#).

530 NOTE: Related profiles may define additional requirements on operations for the profile class.

531 **Table 11 – Operations: CIM\_LogManagesRecord**

Operation	Requirement	Messages
Associators	Unspecified	None
AssociatorNames	Unspecified	None
References	Unspecified	None
ReferenceNames	Unspecified	None

532 **8.10 CIM\_HostedDependency**

533 Table 12 lists implementation requirements for operations. If implemented, these operations shall be  
 534 implemented as defined in [DSP0200](#). In addition, and unless otherwise stated in Table 12, all operations  
 535 in the default list in 8.3 shall be implemented as defined in [DSP0200](#).

536 NOTE: Related profiles may define additional requirements on operations for the profile class.

537 **Table 12 – Operations: CIM\_HostedDependency**

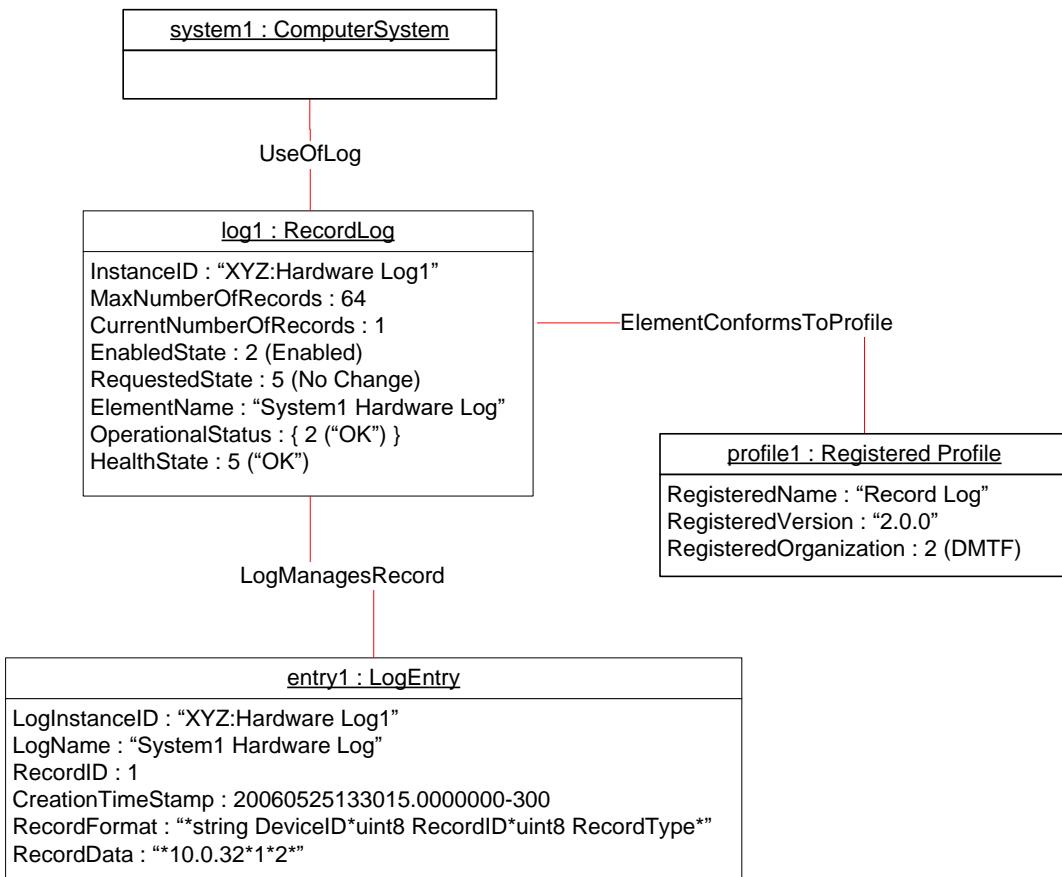
Operation	Requirement	Messages
Associators	Unspecified	None
AssociatorNames	Unspecified	None
References	Unspecified	None
ReferenceNames	Unspecified	None

538 **9 Use cases**

539 This clause contains object diagrams and use cases for the *Record Log Profile*.

540 **9.1 Object diagrams**

541 Figure 2 represents possible instances of *Record Log Profile* classes. In this case, system1 uses log1 for  
 542 its hardware log. log1 has only one record, but it has a maximum capacity of 64 records. The value of the  
 543 EnabledState property for log1 is 1 (Enabled), which means the log is active. Profile registration  
 544 information is represented with the profile1 instance.

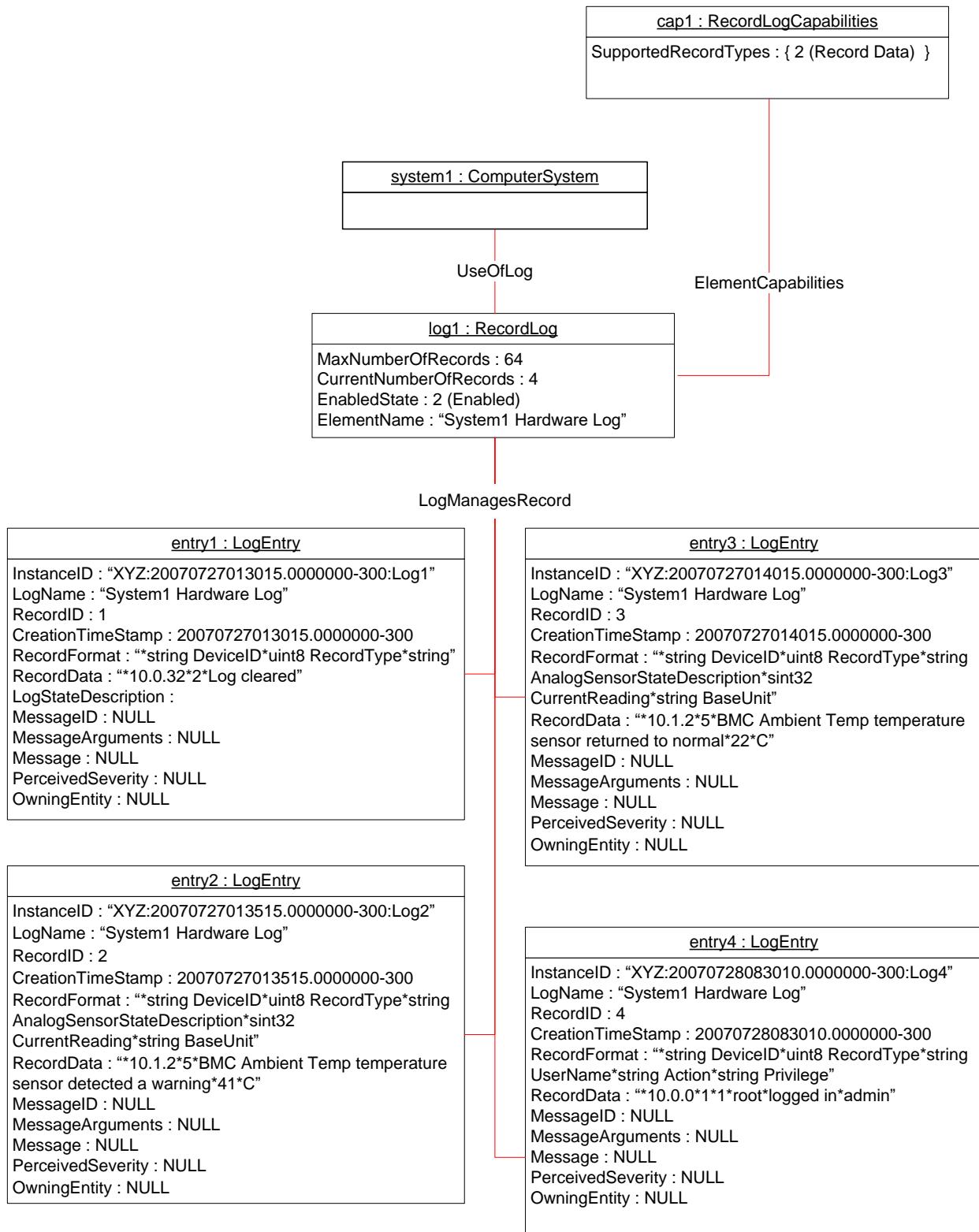


545

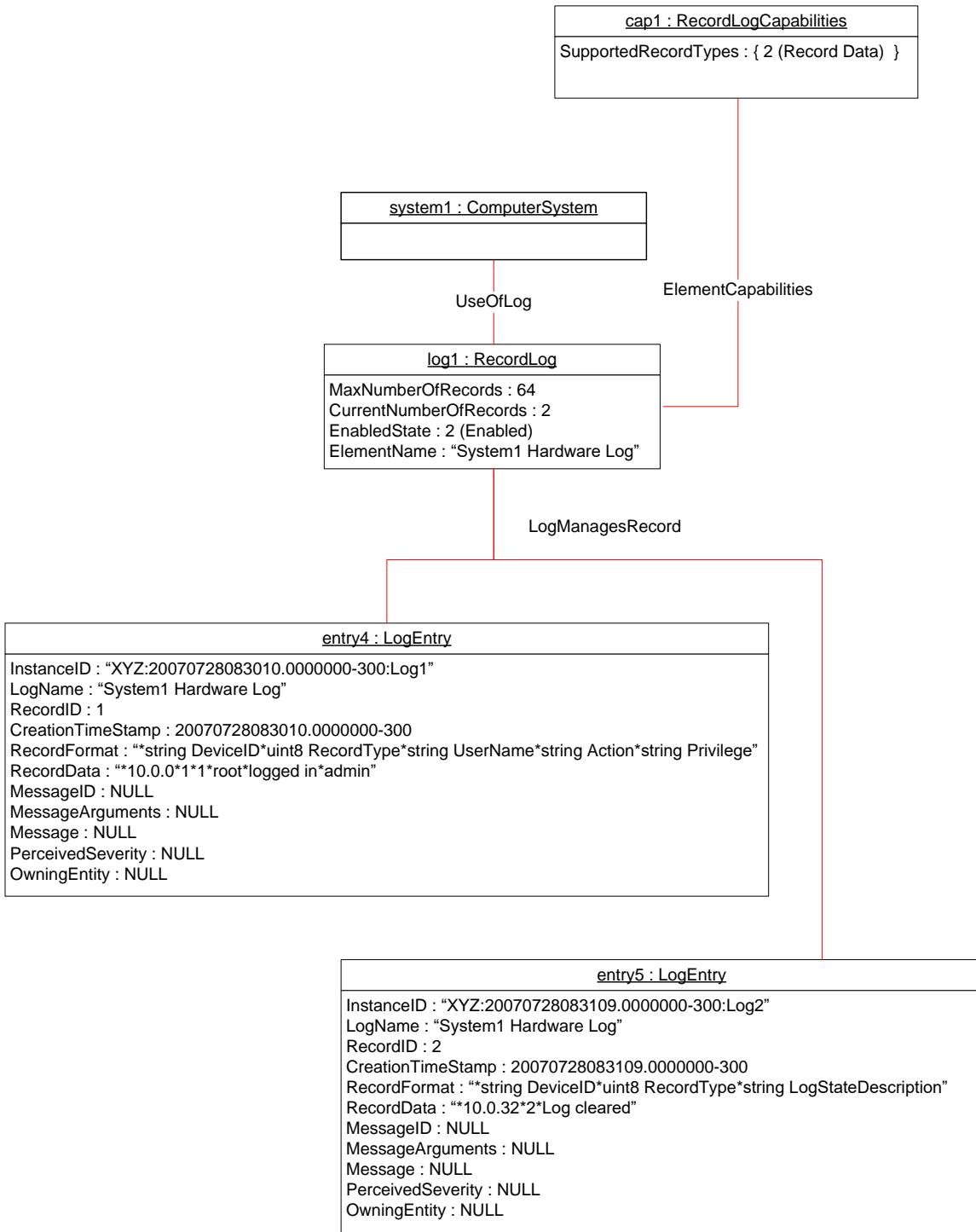
546

**Figure 2 – RecordLog instance**

547 Figure 3 represents a possible instantiation of the *Record Log Profile*. log1, which is the hardware log for  
 548 system1, has four log entries. entry1 is a log entry for clearing the log, entry2 and entry3 are sensor  
 549 logged information, and entry4 contains information about the logged-in users. If the ClearLog( ) method  
 550 is supported on log1, the client might execute the ClearLog( ) method on log1 to erase the entries.  
 551 Depending on the log1 settings, some of the entries may not be erasable through executing the  
 552 ClearLog( ) method. Figure 4 shows the change of instances of CIM\_LogEntry after the successful  
 553 execution of the ClearLog( ) method on log1.



556 Figure 4 shows the representation of log1 after the ClearLog( ) method successfully executed. entry1,  
557 entry2, and entry3 from Figure 3 have been erased. Because of log1's policies, entry4 has not been  
558 erased and still exists in log1. entry5 is a new log entry that has been added to the log after the  
559 successful clearing of log1. Note that the RecordID properties have been reset for the entries in log1.



560

561

**Figure 4 – RecordLog instance after the log is cleared**562 **9.2 Identify the log by the name**563 To select a log by its name, a client can select the CIM\_RecordLog instance in which the ElementName  
564 property corresponds to the desired name.

565    **9.3 Browse the records of the log**

566    To browse log records, a client can iterate through all the instances of CIM\_LogEntry that are associated  
567    through the CIM\_LogManagesRecord association to the given instance of CIM\_RecordLog and sort them  
568    based on the RecordID.

569    **9.4 Sort the log records based on the time stamp of the log entry**

570    A client can sort log records by time stamp as follows:

- 571        1) Iterate through all the instances of CIM\_LogEntry that are associated through the  
572            CIM\_LogManagesRecord association to the given instance of CIM\_RecordLog that represents  
573            the log record.
- 574        2) Sort the instances of CIM\_LogEntry based on the CreationTimeStamp property value in LIFO  
575            order.

576    **9.5 Delete a log entry**

577    A client can delete a log entry as follows:

- 578        1) Select the instance of CIM\_LogEntry that represents the desired log entry to be deleted.
- 579        3) Execute DeleteInstance operation on the selected instance of CIM\_LogEntry.

580    Upon successful execution, the instance of CIM\_LogEntry and the instance of CIM\_LogManagesRecord  
581    that associates the log entry to the instance of CIM\_RecordLog are deleted.

582    **9.6 Clear the log**

583    To clear the log, a client can execute the ClearLog() method for the given instance of CIM\_RecordLog.

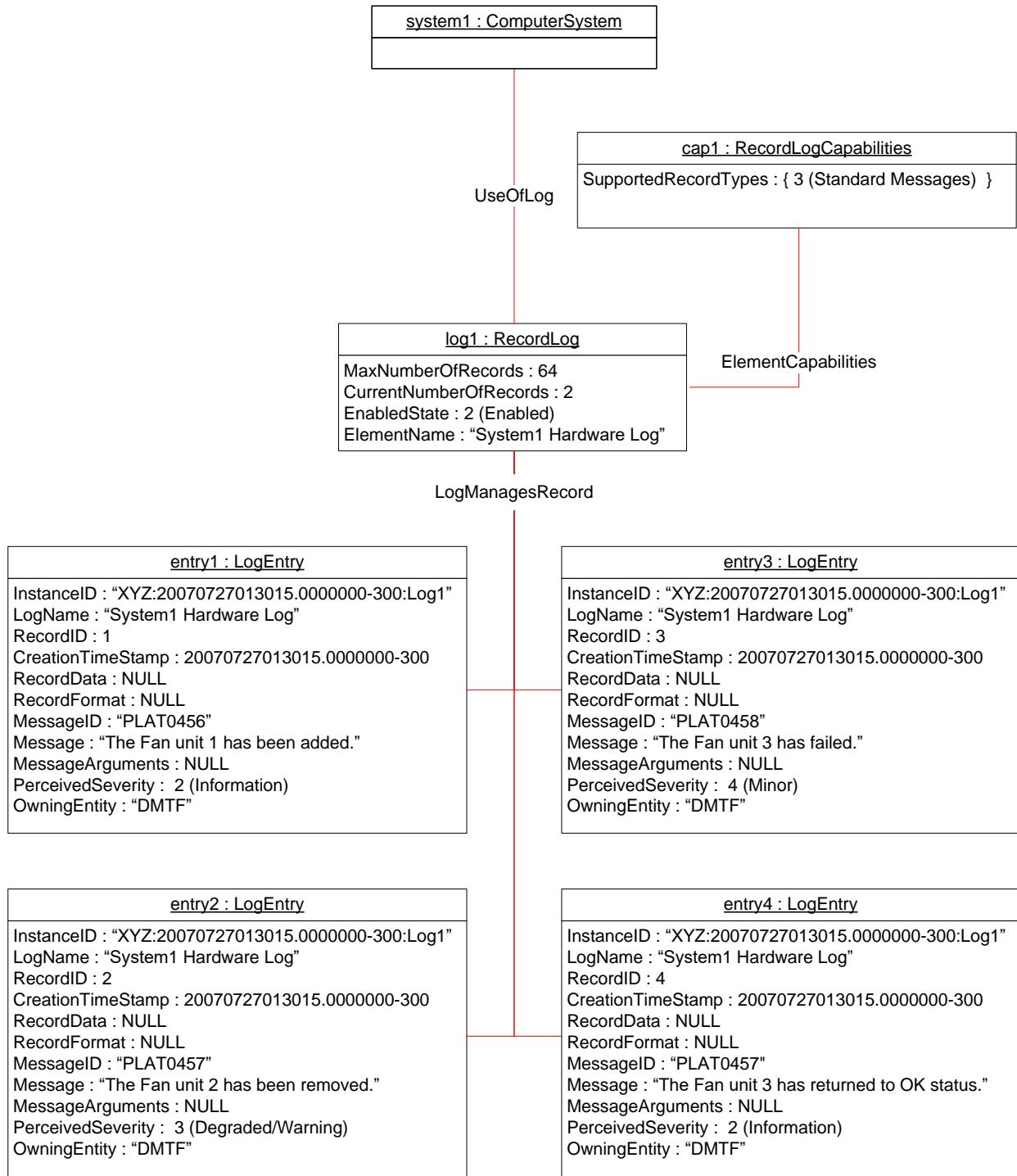
584    **9.7 Determine which record types are supported**

585    A client can determine which record types are supported as follows:

- 586        1) From the instance of CIM\_RecordLog use the CIM\_ElementCapabilities association to obtain  
587            the associated instance of CIM\_RecordLogCapabilities.
- 588        4) The SupportedRecordTypes property of the CIM\_RecordLogCapabilities instance indicates  
589            which record types are supported by the implementation.

590    **9.8 RecordLog instance for standard messages**

591    Figure 5 shows four messages using the standard message record log type. For these record log entries  
592    that support standard messages only the Message property has been supplied but the message  
593    arguments are not; therefore, the MessageArguments property is NULL.



594

595

**Figure 5 – RecordLog instance for standard messages**

596 **9.9 RecordLog Instance for standard messages with MessageArguments supported**

598

599   Figure 6 shows four messages using the standard message record log type. For these record log entries  
600   that support standard messages both the Message and MessageArguments properties are supported.  
601   entry4 shows a potential message that does not contain any DYNAMIC\_ELEMENTS. For this case, the  
602   MessageArguments property is an empty array.

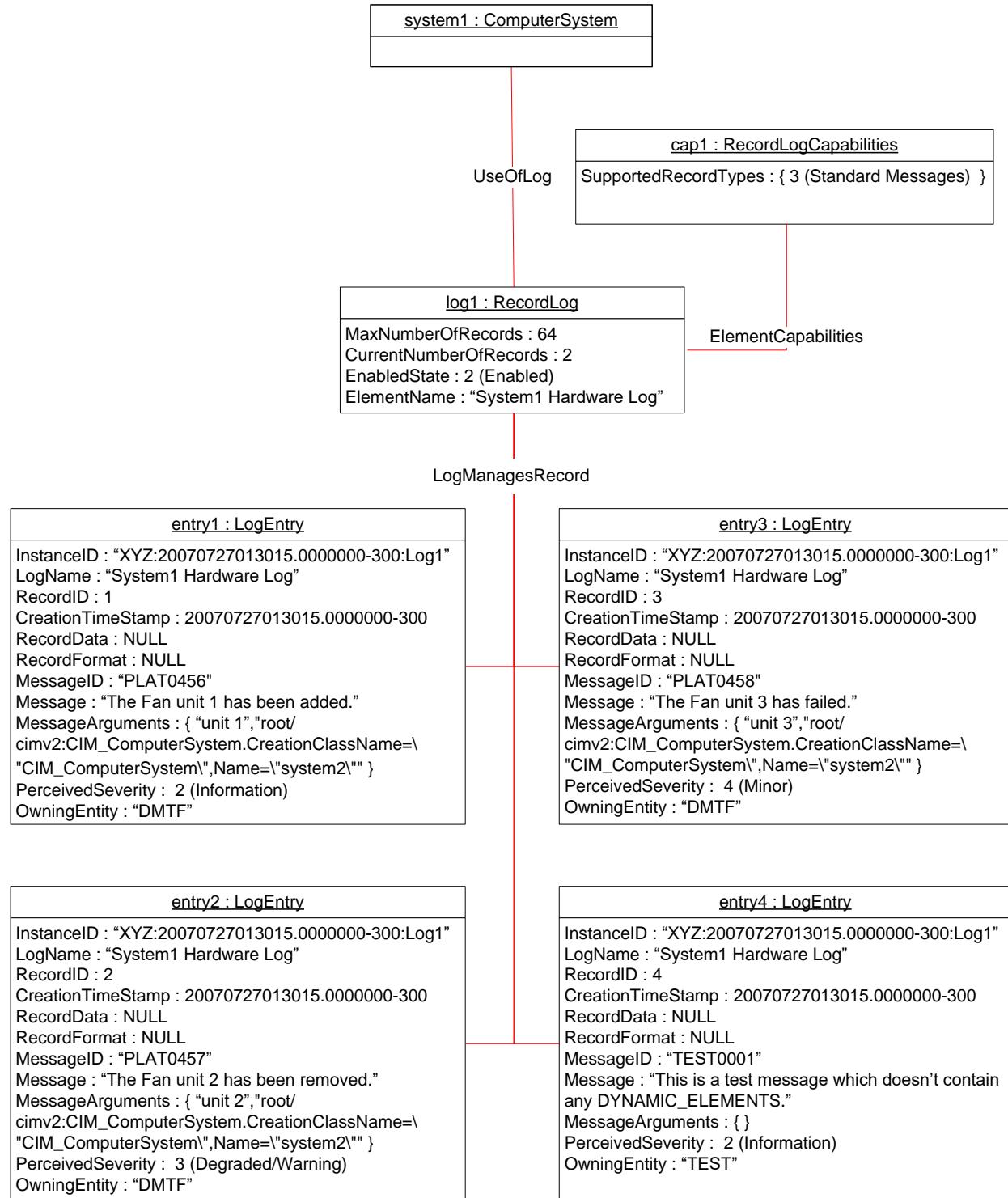
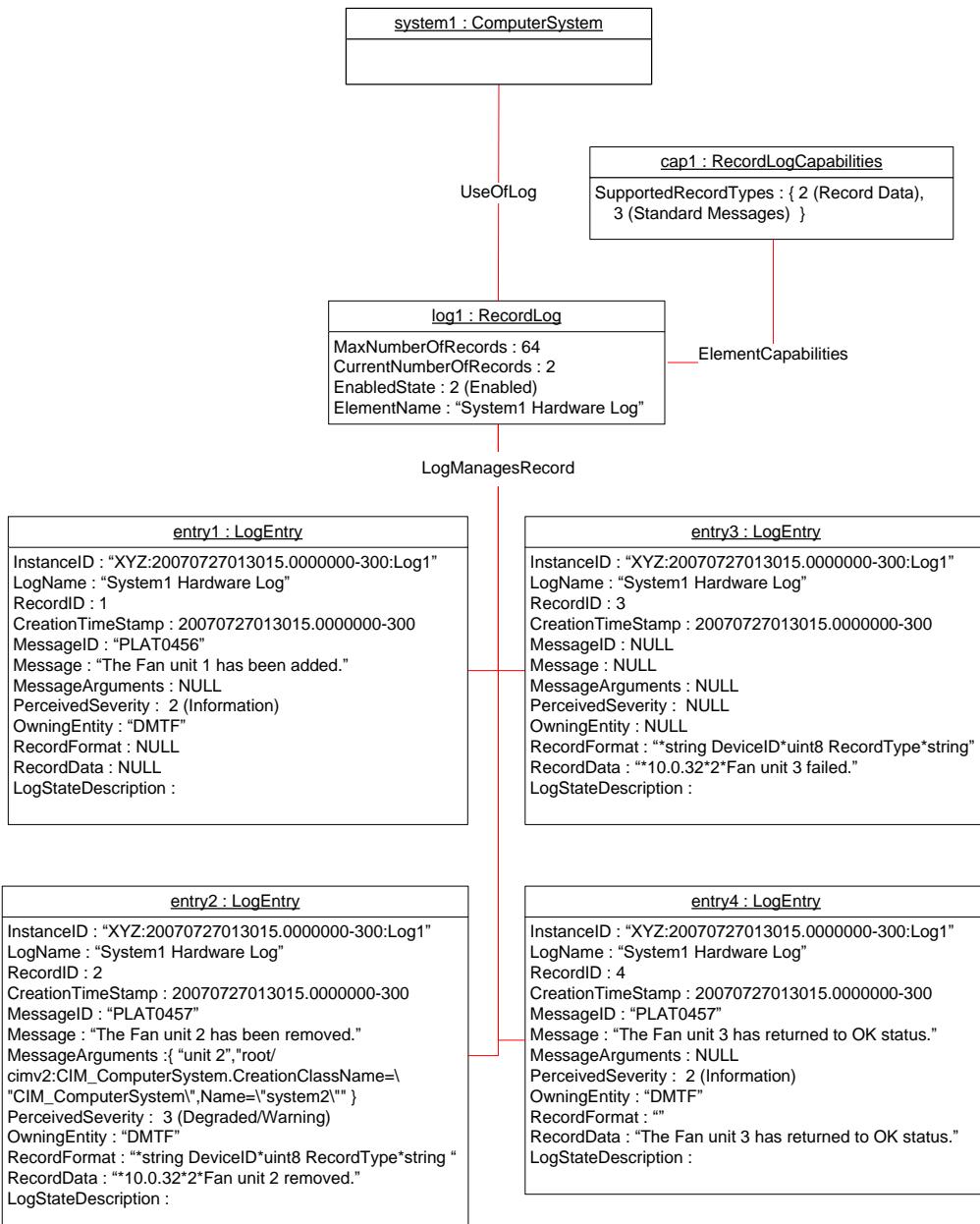
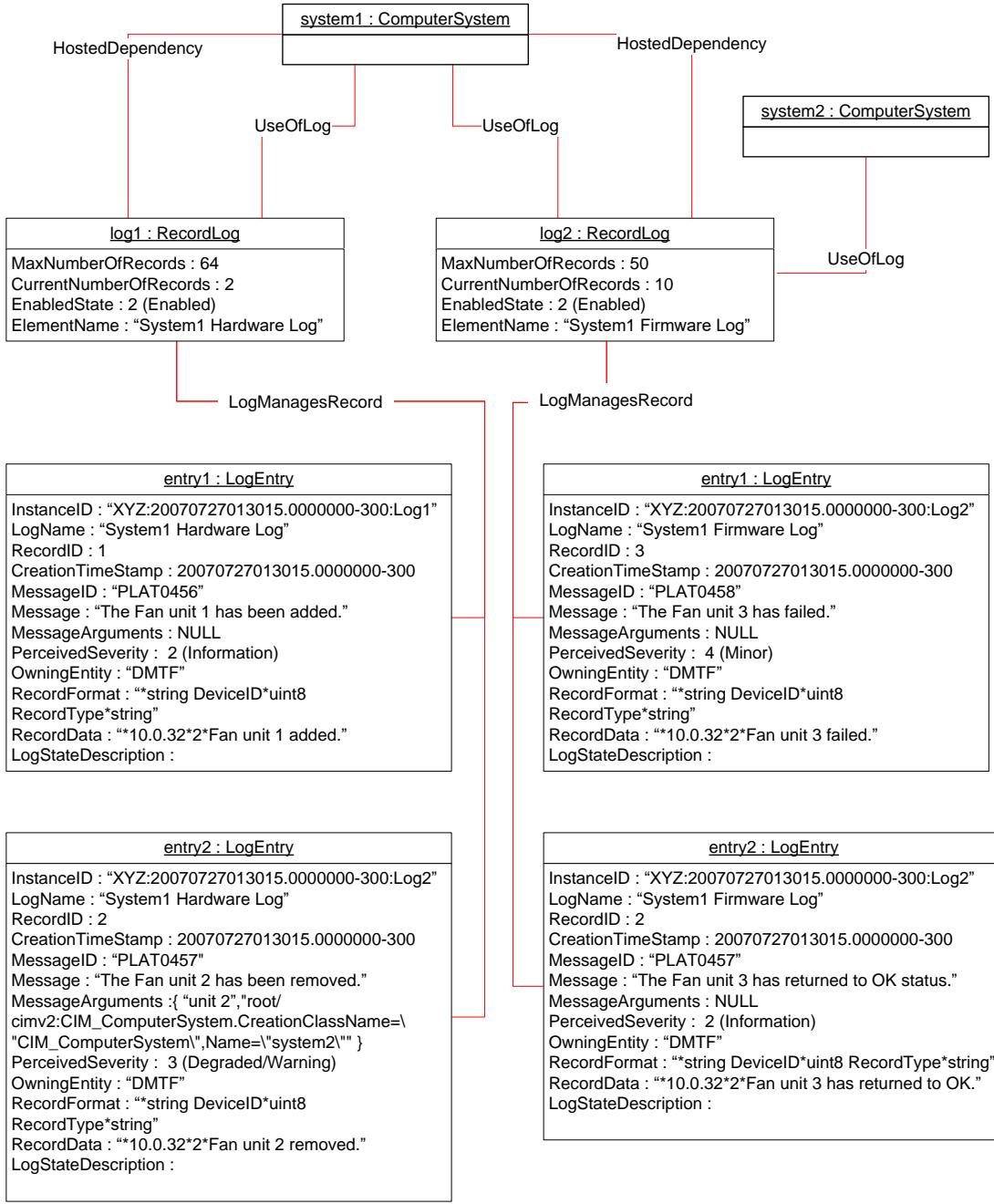


Figure 6 – RecordLog with standard message and MessageArguments

## 606    **9.10 RecordLog Instance for Record Data and Standard Messages**

607    Figure 7 shows a Record Log that supports both the Record Data and Standard Message formats. In  
608    addition, for the standard messages both the Message and MessageArguments properties are supplied.  
609    The entry1 log entry contains only the Standard Message Format with the Message property, but not the  
610    MessageArguments property. The entry2 log entry contains both the Record Data and Standard Message  
611    Formats. The entry3 log entry contains only the Record Data Format. And the entry4 log entry contains  
612    both the Record Data and Standard Message Formats. The entry4 log entry shows properties for the  
613    Record Data Format where the RecordFormat property is an empty string, which indicates that the  
614    RecordData is a free-format string.



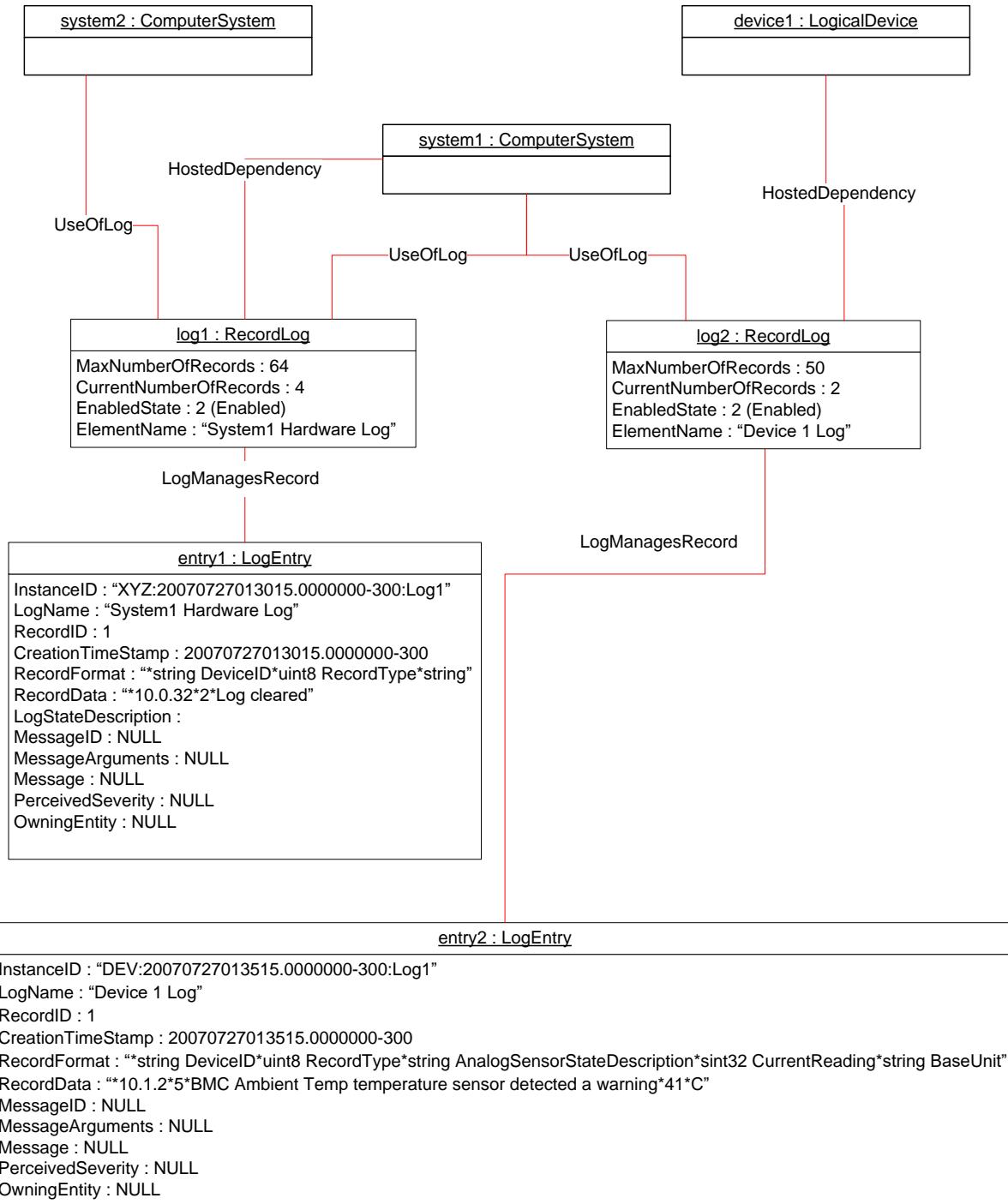


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624

**Figure 8 – Record log hosted on system1**

625 Figure 9 shows two record logs (log1 and log2). log1 is hosted on system1 and used by system1 and system2. log2 is hosted on device1 and is used by system1.



627

628

Figure 9 – Record logs hosted on system1 and device1

## 629 10 CIM Elements

630 Table 13 shows the instances of CIM Elements for this profile. Instances of the CIM Elements shall be  
 631 implemented as described in Table 13. Clauses 7 (“Implementation”) and 8 (“Methods”) may impose  
 632 additional requirements on these elements.

633 **Table 13 – CIM Elements: Record Log Profile**

Element Name	Requirement	Description
<b>Classes</b>		
CIM_ElementCapabilities	Optional	See 10.1.
CIM_RecordLogCapabilities	Mandatory	See 7.2 and 10.2.
CIM_LogManagesRecord	Optional	See 10.3.
CIM_LogEntry	Optional	See 10.4.
CIM_RecordLog	Mandatory	See 10.5.
CIM_RegisteredProfile	Mandatory	See 10.6.
CIM_UseOfLog	Mandatory	See 10.7.
CIM_HostedDependency	Optional	See 10.8.
<b>Indications</b>		
None defined in this profile		

### 634 10.1 CIM\_ElementCapabilities

635 CIM\_ElementCapabilities associates an instance of CIM\_RecordLog with an instance of  
 636 CIM\_EnabledLogicalElementCapabilities that describes the capabilities of CIM\_RecordLog. Table 14  
 637 provides information about the properties of CIM\_ElementCapabilities.

638 **Table 14 – Class: CIM\_ElementCapabilities**

Elements	Requirement	Notes
ManagedElement	Mandatory	<b>Key:</b> This property shall reference the instance of CIM_RecordLog that represents the log. Cardinality 1..*, indicating one or many references
Capabilities	Mandatory	<b>Key:</b> This property shall reference the instance of CIM_EnabledLogicalElement that represents the capabilities of the log. Cardinality 0..1, indicating zero or one reference

## 639 **10.2 CIM\_RecordLogCapabilities**

640 CIM\_RecordLogCapabilities represents the capabilities of the log. Table 15 provides information about  
 641 the properties of CIM\_RecordLogCapabilities.

642 **Table 15 – Class: CIM\_RecordLogCapabilities**

Elements	Requirement	Notes
InstanceID	Mandatory	<b>Key</b>
RequestedStatesSupported	Mandatory	See 7.2.2.
ElementNameEditSupported	Mandatory	See 7.2.3.
MaxElementNameLen	Conditional	See 7.2.4.
SupportedRecordTypes	Mandatory	See 7.2.1.
MethodsSupported	Optional	See <a href="#">7.2.5</a> .

## 643 **10.3 CIM\_LogManagesRecord**

644 CIM\_LogManagesRecord associates the CIM\_RecordLog instance, which represents the log, with an  
 645 instance of CIM\_LogEntry, which represents an entry within the log. Table 16 provides information about  
 646 the properties of CIM\_LogManagesRecord.

647 **Table 16 – Class: CIM\_LogManagesRecord**

Elements	Requirement	Notes
Log	Mandatory	<b>Key:</b> This property shall reference the CIM_RecordLog instance that represents the log. Cardinality 1, indicating one reference
Record	Mandatory	<b>Key:</b> This property shall reference the instance of CIM_LogEntry that represents the entry within the log. Cardinality *, indicating many references

## 648 **10.4 CIM\_LogEntry**

649 CIM\_LogEntry represents the log entry within the log in the managed system. Table 17 provides  
 650 information about the properties of CIM\_LogEntry.

651 **Table 17 – Class: CIM\_LogEntry**

Elements	Requirement	Notes
InstanceID	Mandatory	<b>Key</b>
LogInstanceID	Optional	See 7.1.1.
LogName	Optional	See 7.1.2.
RecordID	Mandatory	None
CreationTimeStamp	Mandatory	None
RecordData	Conditional	See 7.1.3.1.1 and 7.2.1.
RecordFormat	Conditional	See 7.1.3.1.2 and 7.2.1.

Elements	Requirement	Notes
ElementName	Mandatory	The property shall match pattern “.*”.
PerceivedSeverity	Conditional	See 7.1.3.3.4 and 7.2.1.
OwningEntity	Conditional	See 7.1.3.3.5 and 7.2.1.
MessageID	Conditional	See 7.1.3.3.1 and 7.2.1.
Message	Conditional	See 7.1.3.3.2 and 7.2.1.
MessageArguments	Conditional	See 7.1.3.3.2 and 7.2.1.

## 652 10.5 CIM\_RecordLog

653 CIM\_RecordLog represents the log in the managed system. Table 18 provides information about the  
 654 properties of CIM\_RecordLog.

655 **Table 18 – Class: CIM\_RecordLog**

Elements	Requirement	Notes
InstanceID	Mandatory	<b>Key</b>
MaxNumberOfRecords	Mandatory	A value of 0 shall mean “Unknown” or “Not Applicable”.
LogState	Mandatory	See 7.5.2.
OverwritePolicy	Mandatory	See 7.8.
RequestedState	Mandatory	See 7.4.
EnabledState	Mandatory	See 7.5.1.
OperationalStatus	Mandatory	None
HealthState	Mandatory	None
ElementName	Mandatory	The property shall match pattern “.*”.
CurrentNumberOfRecords	Optional	None

## 656 10.6 CIM\_RegisteredProfile

657 CIM\_RegisteredProfile identifies the *Record Log Profile* in order for a client to determine the conformance  
 658 with the profile. The CIM\_RegisteredProfile class is defined by the [Profile Registration Profile](#). With the  
 659 exception of the mandatory values specified for the properties in Table 19, the behavior of the  
 660 RegisteredProfile instance is per the [Profile Registration Profile](#).

661 **Table 19 – Class: CIM\_RegisteredProfile**

Elements	Requirement	Description
RegisteredName	Mandatory	This property shall have a value of “Record Log”.
RegisteredVersion	Mandatory	This property shall have a value of “2.1.0”.
RegisteredOrganization	Mandatory	This property shall have a value of 2 (DMTF).

662 NOTE: Previous versions of this document included the suffix “Profile” for the RegisteredName value. If  
 663 implementations querying for the RegisteredName value find the suffix “Profile”, they should ignore the suffix, with  
 664 any surrounding white spaces, before any comparison is done with the value as specified in this document.

## 665 10.7 CIM\_UseOfLog

666 CIM\_UseOfLog associates CIM\_RecordLog, which represents the log, with a subclass of  
 667 CIM\_ManagedSystemElement, which represents the element that uses or populates the log. Table 20  
 668 provides information about the properties of CIM\_UseOfLog.

669 **Table 20 – Class: CIM\_UseOfLog**

Elements	Requirement	Notes
Antecedent	Mandatory	<p><b>Key:</b> This property shall reference the CIM_RecordLog instance that represents the log.            Cardinality 1..*, indicating one or many references</p>
Dependent	Mandatory	<p><b>Key:</b> This property shall reference the instance of a subclass of CIM_ManagedSystemElement (such as CIM_ComputerSystem) that owns the log.            Cardinality 1..*, indicating one or many references</p>

## 670 10.8 CIM\_HostedDependency

671 CIM\_HostedDependency associates CIM\_RecordLog, which represents the log, with a subclass of  
 672 CIM\_ManagedElement, which represents the element that hosts the log. Table 21 provides information  
 673 about the properties of CIM\_HostedDependency.

674 **Table 21 – Class: CIM\_HostedDependency**

Elements	Requirement	Notes
Antecedent	Mandatory	<p><b>Key:</b> This property shall reference the CIM_RecordLog instance that represents the log.            Cardinality 1..*, indicating one or many references</p>
Dependent	Mandatory	<p><b>Key:</b> This property shall reference the instance of a subclass of CIM_ManagedSystemElement (such as CIM_ComputerSystem) that hosts the log.            Cardinality 1..*, indicating one or many references</p>

675  
676  
677  
678

## ANNEX A (informative)

### Change log

Version	Date	Description
1.0.0	2007-10-04	
1.0.1	2008-09-23	Errata 1.0.1
2.0.0	2010-05-20	DMTF Standard, with the following changes: <ul style="list-style-type: none"><li>• Add Standard Message support. Either Record Data or Standard Message Format must be implemented.</li><li>• The new class CIM_RecordLogCapabilities, which subclasses ( and replaces) CIM_EnabledLogicalElementCapabilities, must now be implemented.</li></ul>
2.1.0	2016-08-15	New property CIM_RecordLogCapabilities.MethodsSupported was introduced to enable a client to intrinsically discover which extrinsic methods are supported by an implementation of this profile

679