**Specification**

USPD: US.ECO.00002-01 90

Component: IEcoLog1

UGUID: 97322B6765B74342BBCE38798A0B40B5

Status: Draft

Date: November 8, 2021

Version: 1.0

|  |  |
| --- | --- |
| **Authors** | **Company** |
| Vladimir Bashev | PEERF |
|  |  |
|  |  |

Content

[**1.** **Overview** 4](#_Toc179661509)

[**1.1.** **Introduction** 4](#_Toc179661510)

[**1.2.** **Note** 4](#_Toc179661511)

[**1.3.** **Links** 4](#_Toc179661512)

[**2.** **Eco.** **Log1 Component** 5](#_Toc179661513)

[**3.** **IEcoLog1 Interface** 6](#_Toc179661514)

[**3.1.** **IEcoLog1 IDL** 6](#_Toc179661515)

[**3.1.1.** **AddAffiliate function** 7](#_Toc179661516)

[**3.1.2.** **set\_LevelMask function** 7](#_Toc179661517)

[**3.1.3.** **get\_LevelMask function** 7](#_Toc179661518)

[**3.1.4.** **Debug function** 7](#_Toc179661519)

[**3.1.5.** **Info function** 7](#_Toc179661520)

[**3.1.6.** **Warn function** 7](#_Toc179661521)

[**3.1.7.** **Error function** 7](#_Toc179661522)

[**3.1.8.** **Fatal function** 7](#_Toc179661523)

[**3.1.9.** **DebugFormat function** 7](#_Toc179661524)

[**3.1.10.** **InfoFormat function** 8](#_Toc179661525)

[**3.1.11.** **recvmmsg function** 8](#_Toc179661526)

[**3.1.12.** **WarnFormat function** 8](#_Toc179661527)

[**3.1.13.** **ErrorFormat function** 8](#_Toc179661528)

[**3.1.14.** **FatalFormat function** 8](#_Toc179661529)

[**3.1.15.** **HexDump function** 8](#_Toc179661530)

[**3.1.16.** **BinDump function** 8](#_Toc179661531)

[**4.1.** **IEcoLog1Affiliate IDL** 9](#_Toc179661532)

[**4.1.1.** **get\_Name function** 10](#_Toc179661533)

[**4.1.2.** **get\_Layout function** 10](#_Toc179661534)

[**4.1.3.** **set\_Layout function** 10](#_Toc179661535)

[**4.1.4.** **Write function** 10](#_Toc179661536)

[**5.1.** **IEcoLog1Layout IDL** 11](#_Toc179661537)

[**5.1.1.** **get\_Name function** 12](#_Toc179661538)

[**5.1.2.** **Format function** 12](#_Toc179661539)

[**6.1.** **IEcoLog1ConsoleAffiliate IDL** 13](#_Toc179661540)

[**6.1.1.** **get*\_*TargetOutputfunction** 14](#_Toc179661541)

[**6.1.2.** **set\_TargetOutputfunction** 14](#_Toc179661542)

[**7.1.** **IEcoLog1FileAffiliate IDL** 15](#_Toc179661543)

[**7.1.1.** **get\_FileName function** 16](#_Toc179661544)

[**7.1.2.** **set\_FileName function** 16](#_Toc179661545)

[**8.1.** **IEcoLog1SimpleLayout IDL** 17](#_Toc179661546)

[**8.1.1.** **get\_Pattern function** 18](#_Toc179661547)

[**8.1.2.** **set\_Pattern function** 18](#_Toc179661548)

[**9.** **Error codes** 19](#_Toc179661549)

[**Appendix A: Training programs** 20](#_Toc179661550)

1. **Overview**

This document describes the requirements for the implementation of the Eco.Log1 component.

* 1. **Introduction**

Description.

* 1. **Note**
* Keywords
  1. **Links**

This paragraph contains links to information to help you understand this document:

[] – name of the link

Available by: http://address

1. **Eco.** **Log1 Component**

The Eco.List1 component

The component has the following description:

1. **IEcoLog1 Interface**
   1. **IEcoLog1 IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.h" | | | |
| [  object,  uguid(F3B19793-BD14-4E9F-B7EA-64EDF4B6453F),  ] | | | |
| interface IEcoLog1 : IEcoUnknown { | | | |
|  | | | |
| int16\_t | | ***AddAffiliate*** | ([in] IEcoLog1Affiliate\* pIAffiliate); |
|  | | | |
| void | | ***set\_LevelMask*** | ([in] uint16\_t mask); |
|  | | | |
| uint16\_t | | ***get\_LevelMask*** | ([in] void); |
|  | | | |
| void | | ***Debug*** | ([in] char\_t\* message); |
|  | |  |  |
| void | | ***Info*** | ([in] char\_t\* message); |
|  | | | |
| void | | ***Warn*** | ([in] char\_t\* message); |
|  | | | |
| void | | ***Error*** | ([in] char\_t\* message); |
|  | | | |
| void | | ***Fatal*** | ([in] char\_t\* message); |
|  | | | |
| void | | ***DebugFormat*** | ([in] char\_t\* format,  ...); |
|  | |  |  |
| void | | ***InfoFormat*** | ([in] char\_t\* format,  ...); |
|  | |  |  |
| void | | ***WarnFormat*** | ([in] char\_t\* format,  ...); |
|  | |  |  |
| void | | ***ErrorFormat*** | ([in] char\_t\* format,  ...); |
|  | |  |  |
| void | | ***FatalFormat*** | ([in] char\_t\* format,  ...); |
|  | |  |  |
| void | | ***HexDump*** | ([in] char\_t\* data,  [in] uint32\_t\* size); |
|  | |  |  |
| void | | ***BinDump*** | ([in] uint32\_t\* data,  [in] byte\_t\* bits); |
| } | |  |  |

* + 1. **AddAffiliate function**

The function

* + 1. **set\_LevelMask function**

The function

* + 1. **get\_LevelMask function**

The function

* + 1. **Debug function**

The function

* + 1. **Info function**

The function

* + 1. **Warn function**

The function

* + 1. **Error function**

The function

* + 1. **Fatal function**

The function

* + 1. **DebugFormat function**

The function

* + 1. **InfoFormat function**

The function

* + 1. **recvmmsg function**

The function

* + 1. **WarnFormat function**

The function

* + 1. **ErrorFormat function**

The function

* + 1. **FatalFormat function**

The function

* + 1. **HexDump function**

The function

* + 1. **BinDump function**

The function

1. **IEcoLog1Affiliate Interface**
   1. **IEcoLog1Affiliate IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.h" | | | |
| [  object,  uguid(6A744539-3376-4D4B-BF3C-1FABE5BBC18F),  ] | | | |
| interface IEcoLog1Affiliate : IEcoUnknown { | | | |
|  | | | |
| char\_t\* | | ***get\_Name*** | ([in] void); |
|  | | | |
| IEcoLog1Layout\* | | ***get\_Layout*** | ([in] void); |
|  | | | |
| void | | ***set\_Layout*** | ([in] IEcoLog1Layout\* pILayout); |
|  | | | |
| int16\_t | | ***Write*** | ([in] uint16\_t level,  [in] char\_t\* data  [in] uint32\_t size); |
| } | |  |  |

* + 1. **get\_Name function**

The function

* + 1. **get\_Layout function**

The function

* + 1. **set\_Layout function**

The function

* + 1. **Write function**

The function

1. **IEcoLog1Layout Interface**
   1. **IEcoLog1Layout IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.h" | | | |
| [  object,  uguid(7596A090-3847-44EA-BEDB-EA4F4EEE5DA1),  ] | | | |
| interface IEcoLog1Layout : IEcoUnknown { | | | |
|  | | | |
| char\_t\* | | ***get\_Name*** | ([in] void); |
|  | | | |
| char\_t\* | | ***Format*** | ([in] uint16\_t level,  [in] char\_t\* data  [in] uint32\_t size); |
| } | |  |  |

* + 1. **get\_Name function**

The function

* + 1. **Format function**

The function

1. **IEcoLog1ConsoleAffiliate Interface**
   1. **IEcoLog1ConsoleAffiliate IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.h"  import "IEcoLog1.hpp" | | | |
| [  object,  uguid(FECB29A2-3D60-4501-9F83-47C4752CFA3A),  ] | | | |
| interface IEcoLog1ConsoleAffiliate : IEcoLog1Affiliate { | | | |
|  | | | |
| char\_t\* | | ***get\_TargetOutput*** | ([in] void); |
|  | | | |
| void | | ***set\_TargetOutput*** | ([in] char\_t\* name); |
| } | |  |  |

* + 1. **get*\_*TargetOutputfunction**

The function

* + 1. **set\_TargetOutputfunction**

The function

1. **IEcoLog1FileAffiliate Interface**
   1. **IEcoLog1FileAffiliate IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.h"  import "IEcoLog1.hpp" | | | |
| [  object,  uguid(22B0B071-478D-461A-9F5B-5F40D4D79B7A),  ] | | | |
| interface IEcoLog1FileAffiliate : IEcoLog1Affiliate { | | | |
|  | | | |
| char\_t\* | | ***get\_FileName*** | ([in] void); |
|  | | | |
| void | | ***set\_FileName*** | ([in] char\_t\* name); |
| } | |  |  |

* + 1. **get\_FileName function**

The function

* + 1. **set\_FileName function**

The function

1. **IEcoLog1SimpleLayout Interface**
   1. **IEcoLog1SimpleLayout IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.h"  import "IEcoLog1.hpp" | | | |
| [  object,  uguid(9485C6A5-2CBF-4D46-B8B5-94F60740BEE3),  ] | | | |
| interface IEcoLog1SimpleLayout : IEcoLog1Layout { | | | |
|  | | | |
| char\_t\* | | ***get\_Pattern*** | ([in] void); |
|  | | | |
| char\_t\* | | ***set\_Pattern*** | ([in] char\_t\* name); |
| } | |  |  |

* + 1. **get\_Pattern function**

The function

* + 1. **set\_Pattern function**

The function

1. **Error codes**

The following table contains the error codes.

|  |  |  |
| --- | --- | --- |
| **Error code** | **Value** | **Description** |
| ERR\_ECO\_SUCCESES | 0x0000 | Operation successful. |
| ERR\_ECO\_UNEXPECTED | 0xFFFF | Unexpected condition. |
| ERR\_ECO\_POINTER | 0xFFEE | NULL was passed incorrectly for a pointer value. |
| ERR\_ECO\_NOINTERFACE | 0xFFED | No such interface supported. |
| ERR\_ECO\_COMPONENT\_NOTFOUND | 0xFFE9 | The component was not found. |
|  |  |  |
|  |  |  |

# **Appendix A: Training programs**