**Specification**

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|  |  |
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Content

[**1.** **Overview** 4](#_Toc185366306)

[**1.1.** **Introduction** 4](#_Toc185366307)

[**1.2.** **Note** 4](#_Toc185366308)

[**1.3.** **Links** 4](#_Toc185366309)

[**2.** **Eco.MZEXE1 Component** 5](#_Toc185366310)

[**3.** **IEcoMZEXE1 Interface** 6](#_Toc185366311)

[**3.1.** **IEcoMZEXE1 IDL** 6](#_Toc185366312)

[**3.1.1.** **readImageFile function** 7](#_Toc185366313)

[**3.1.2.** **writeImageFile function** 7](#_Toc185366314)

[**3.1.3.** **createImageFile function** 7](#_Toc185366315)

[**3.1.4.** **createExecutableHeader function** 7](#_Toc185366316)

[**3.1.5.** **createHeaderExpansion function** 7](#_Toc185366317)

[**3.1.6.** **createNewExecutableHeader function** 7](#_Toc185366318)

[**3.1.7.** **createRelocationEntry function** 7](#_Toc185366319)

[**3.1.8.** **createFreeFormatContent function** 7](#_Toc185366320)

[**4.** **IEcoMZEXE1ExecutableHeader** **Interface** 8](#_Toc185366321)

[**4.1.** **IEcoMZEXE1ExecutableHeader IDL** 8](#_Toc185366322)

[**4.1.1.** **get\_Descriptor function** 9](#_Toc185366323)

[**4.1.2.** **set\_Descriptor function** 9](#_Toc185366324)

[**5.** **IEcoMZEXE1FreeFormatContent** **Interface** 10](#_Toc185366325)

[**5.1.** **IEcoMZEXE1FreeFormatContent IDL** 10](#_Toc185366326)

[**5.1.1.** **Alloc function** 11](#_Toc185366327)

[**5.1.2.** **Free function** 11](#_Toc185366328)

[**5.1.3.** **get\_Size function** 11](#_Toc185366329)

[**5.1.4.** **get\_Content function** 11](#_Toc185366330)

[**6.** **IEcoMZEXE1HeaderExpansion** **Interface** 12](#_Toc185366331)

[**6.1.** **IEcoMZEXE1HeaderExpansion IDL** 12](#_Toc185366332)

[**6.1.1.** **get\_Descriptor function** 13](#_Toc185366333)

[**6.1.2.** **set\_Descriptor function** 13](#_Toc185366334)

[**7.** **IEcoMZEXE1ImageFile** **Interface** 14](#_Toc185366335)

[**7.1.** **IEcoMZEXE1ImageFile IDL** 14](#_Toc185366336)

[**7.1.1.** **get\_ExecutableHeader function** 15](#_Toc185366337)

[**7.1.2.** **set\_ExecutableHeader function** 15](#_Toc185366338)

[**7.1.3.** **get\_Relocations function** 15](#_Toc185366339)

[**7.1.4.** **set\_Relocations function** 15](#_Toc185366340)

[**7.1.5.** **get\_HeaderExpansion function** 15](#_Toc185366341)

[**7.1.6.** **set\_HeaderExpansion function** 15](#_Toc185366342)

[**7.1.7.** **get\_Content function** 15](#_Toc185366343)

[**7.1.8.** **set\_Content function** 15](#_Toc185366344)

[**8.** **IEcoMZEXE1NewExecutableHeader** **Interface** 16](#_Toc185366345)

[**8.1.** **IEcoMZEXE1NewExecutableHeader IDL** 16](#_Toc185366346)

[**8.1.1.** **function** 17](#_Toc185366347)

[**9.** **IEcoMZEXE1RelocationEntry** **Interface** 18](#_Toc185366348)

[**9.1.** **IEcoMZEXE1RelocationEntry IDL** 18](#_Toc185366349)

[**9.1.1.** **get\_Descriptor function** 19](#_Toc185366350)

[**9.1.2.** **set\_Descriptor function** 19](#_Toc185366351)

[**10.** **Error codes** 20](#_Toc185366352)

[**Appendix A: Training programs** 21](#_Toc185366353)

1. **Overview**

This document describes the requirements for the implementation of the Eco.MZEXE1 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.MZEXE1 Component**

The Eco.MZEXE1 component is

The component has the following description:

1. **IEcoMZEXE1 Interface**
   1. **IEcoMZEXE1 IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoMZEXE1ExecutableHeader.idl"  import "IEcoMZEXE1HeaderExpansion.idl"  import "IEcoMZEXE1NewExecutableHeader.idl"  import "IEcoMZEXE1FreeFormatContent.idl"  import "IEcoMZEXE1RelocationEntry.idl"  import "IEcoMZEXE1ImageFile.idl" | | | |
| [  object,  uguid(2B322AD9-7E09-4946-AB83-3EF04909FE9C),  ] | | | |
| interface IEcoMZEXE1 : IEcoUnknown { | | | |
|  | | | |
| IEcoMZEXE1ImageFile\* | | ***readImageFile*** | ([in] char\_t\* fileName); |
|  | |  |  |
| int16\_t | | ***writeImageFile*** | ([in] IEcoMZEXE1ImageFile\* pIImageFile,  [in] char\_t\* fileName); |
|  | |  |  |
| IEcoMZEXE1ImageFile\* | | ***createImageFile*** | (); |
|  | |  |  |
| IEcoMZEXE1ExecutableHeader\* | | ***createExecutableHeader*** | (); |
|  | |  |  |
| IEcoMZEXE1HeaderExpansion\* | | ***createHeaderExpansion*** | (); |
|  | |  |  |
| IEcoMZEXE1NewExecutableHeader\* | | ***createNewExecutableHeader*** | (); |
|  | |  |  |
| IEcoMZEXE1RelocationEntry\* | | ***createRelocationEntry*** | (); |
|  | |  |  |
| IEcoMZEXE1FreeFormatContent\* | | ***createFreeFormatContent*** | (); |
|  | |  |  |
| } | |  |  |

* + 1. **readImageFile function**

The function

* + 1. **writeImageFile function**

The function

* + 1. **createImageFile function**

The function

* + 1. **createExecutableHeader function**

The function

* + 1. **createHeaderExpansion function**

The function

* + 1. **createNewExecutableHeader function**

The function

* + 1. **createRelocationEntry function**

The function

* + 1. **createFreeFormatContent function**

The function

1. **IEcoMZEXE1ExecutableHeader** **Interface**
   1. **IEcoMZEXE1ExecutableHeader IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl" | | | |
| [  object,  uguid(897CD9DF-8355-4842-A42C-A1D81BFF8C85),  ] | | | |
| interface IEcoMZEXE1ExecutableHeader : IEcoUnknown { | | | |
|  | | | |
| MZEXE1\_EXECUTABLE\_HEADER\_DESCRIPTOR\* | | ***get\_Descriptor*** | (); |
|  | |  |  |
| void | | ***set\_Descriptor*** | ([in] MZEXE1\_EXECUTABLE\_HEADER\_DESCRIPTOR\* descriptor); |
|  | |  |  |
| } | |  |  |

* + 1. **get\_Descriptor function**

The function

* + 1. **set\_Descriptor function**

The function

1. **IEcoMZEXE1FreeFormatContent** **Interface**
   1. **IEcoMZEXE1FreeFormatContent IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl" | | | |
| [  object,  uguid(8AFCFA97-51F1-49B7-8490-6FD7BF5044D0),  ] | | | |
| interface IEcoMZEXE1FreeFormatContent : IEcoUnknown { | | | |
|  | | | |
| byte\_t\* | | ***Alloc*** | ([in] uint32\_t size); |
|  | |  |  |
| void | | ***Free*** | (); |
|  | |  |  |
| uint32\_t | | ***get\_Size*** | (); |
|  | |  |  |
| byte\_t\* | | ***get\_Content*** | (); |
|  | |  |  |
| } | |  |  |

* + 1. **Alloc function**

The function

* + 1. **Free function**

The function

* + 1. **get\_Size function**

The function

* + 1. **get\_Content function**

The function

1. **IEcoMZEXE1HeaderExpansion** **Interface**
   1. **IEcoMZEXE1HeaderExpansion IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl" | | | |
| [  object,  uguid(3F1B202D-A940-4B8A-B13F-0BFA663A885A),  ] | | | |
| interface IEcoMZEXE1HeaderExpansion : IEcoUnknown { | | | |
|  | | | |
| MZEXE1\_HEADER\_EXPANSION\_DESCRIPTOR\* | | ***get\_Descriptor*** | (); |
|  | |  |  |
| void | | ***set\_Descriptor*** | ([in] MZEXE1\_HEADER\_EXPANSION\_DESCRIPTOR\* descriptor); |
|  | |  |  |
| } | |  |  |

* + 1. **get\_Descriptor function**

The function

* + 1. **set\_Descriptor function**

The function

1. **IEcoMZEXE1ImageFile** **Interface**
   1. **IEcoMZEXE1ImageFile IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoList1.idl"  import "IEcoMZEXE1ExecutableHeader.idl"  import "IEcoMZEXE1HeaderExpansion.idl"  import "IEcoMZEXE1FreeFormatContent.idl" | | | |
| [  object,  uguid(EA37BB00-E6C1-4968-9C50-909AC5BB4F53),  ] | | | |
| interface IEcoMZEXE1ImageFile : IEcoUnknown { | | | |
|  | | | |
| IEcoMZEXE1ExecutableHeader\* | | ***get\_ExecutableHeader*** | (); |
|  | |  |  |
| void | | ***set\_ExecutableHeader*** | ([in] IEcoMZEXE1ExecutableHeader\* pIExecutableHeader); |
|  | |  |  |
| IEcoList1\* | | ***get\_Relocations*** | (); |
|  | |  |  |
| void | | ***set\_Relocations*** | ([in] IEcoList1\* pIRelocations); |
|  | |  |  |
| IEcoMZEXE1HeaderExpansion\* | | ***get\_HeaderExpansion*** | (); |
|  | |  |  |
| void | | ***set\_HeaderExpansion*** | ([in] IEcoMZEXE1HeaderExpansion\* pIHeaderExpansion); |
|  | |  |  |
| IEcoMZEXE1FreeFormatContent\* | | ***get\_Content*** | (); |
|  | |  |  |
| void | | ***set\_Content*** | ([in] IEcoMZEXE1FreeFormatContent\* pIContent); |
|  | |  |  |
| } | |  |  |

* + 1. **get\_ExecutableHeader function**

The function

* + 1. **set\_ExecutableHeader function**

The function

* + 1. **get\_Relocations function**

The function

* + 1. **set\_Relocations function**

The function

* + 1. **get\_HeaderExpansion function**

The function

* + 1. **set\_HeaderExpansion function**

The function

* + 1. **get\_Content function**

The function

* + 1. **set\_Content function**

The function

1. **IEcoMZEXE1NewExecutableHeader** **Interface**
   1. **IEcoMZEXE1NewExecutableHeader IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl" | | | |
| [  object,  uguid(0E1EB2EF-3F34-4F34-9007-457F05B455C),  ] | | | |
| interface IEcoMZEXE1NewExecutableHeader : IEcoUnknown { | | | |
|  | | | |
|  | |  |  |
|  | |  |  |
|  | |  |  |
|  | |  |  |
|  | |  |  |
|  | |  |  |
| } | |  |  |

* + 1. **function**

The function

1. **IEcoMZEXE1RelocationEntry** **Interface**
   1. **IEcoMZEXE1RelocationEntry IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl" | | | |
| [  object,  uguid(6619E97F-23C4-431D-87AB-304A328ABAC1),  ] | | | |
| interface IEcoMZEXE1RelocationEntry : IEcoUnknown { | | | |
|  | | | |
| MZEXE1\_RELOCATION\_ENTRY\_DESCRIPTOR\* | | ***get\_Descriptor*** | (); |
|  | |  |  |
| void | | ***set\_Descriptor*** | ([in] MZEXE1\_RELOCATION\_ENTRY\_DESCRIPTOR\* descriptor); |
|  | |  |  |
| } | |  |  |

* + 1. **get\_Descriptor function**

The function

* + 1. **set\_Descriptor 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**