**Specification**

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|  |  |
| --- | --- |
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1. **Overview**

This document describes the requirements for the implementation of the Eco.PECOFF1 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.PECOFF1 Component**

The Eco.PECOFF1 component is

The component has the following description:

1. **IEcoPECOFF1 Interface**
   1. **IEcoPECOFF1 IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoCOFF1.idl"  import "IEcoList1.idl"  import "IEcoPECOFF1ResourceDataEntry.idl"  import "IEcoPECOFF1ResourceDirectoryEntry.idl"  import "IEcoPECOFF1FirstLinkerMember.idl"  import "IEcoPECOFF1SecondLinkerMember.idl"  import "IEcoPECOFF1ObjectFileMember.idl"  import "IEcoPECOFF1BaseRelocationBlock.idl"  import "IEcoPECOFF1ImportDirectoryEntry.idl"  import "IEcoPECOFF1ImportLookupTable.idl"  import "IEcoPECOFF1ImportLibraryMember.idl"  import "IEcoPECOFF1FreeFormatContent.idl"  import "IEcoPECOFF1SymbolTable.idl"  import "IEcoPECOFF1ObjectFile.idl"  import "IEcoPECOFF1ImageFile.idl" | | | |
| [  object,  uguid(8C1CA67E-C984-4CC6-A084-C4AD592C78C5),  ] | | | |
| interface IEcoPECOFF1 : IEcoUnknown { | | | |
|  | | | |
| IEcoPECOFF1ObjectFile\* | | ***readObjectFile*** | ([in] char\_t\* fileName); |
|  | |  |  |
| int16\_t | | ***writeObjectFile*** | ([in] IEcoPECOFF1ObjectFile\* pIObjectFile,  [in] char\_t\* fileName); |
|  | |  |  |
| IEcoPECOFF1ImageFile\* | | ***readImageFile*** | ([in] char\_t\* fileName); |
|  | |  |  |
| int16\_t | | ***writeImageFile*** | ([in] IEcoPECOFF1ImageFile\* pIImageFile,  [in] char\_t\* fileName); |
|  | |  |  |
| IEcoCOFF1ArchiveFile\* | | ***readArchiveFile*** | ([in] char\_t\* fileName); |
|  | |  |  |
| int16\_t | | ***writeArchiveFile*** | ([in] IEcoCOFF1ArchiveFile\* pIArchiveFile,  [in] char\_t\* fileName); |
|  | |  |  |
| IEcoPECOFF1ObjectFile\* | | ***createObjectFile*** | (); |
|  | |  |  |
| IEcoPECOFF1ImageFile\* | | ***createImageFile*** | (); |
|  | |  |  |
| IEcoCOFF1ArchiveFile\* | | ***createArchiveFile*** | (); |
|  | |  |  |
| IEcoCOFF1FileHeader\* | | ***createCOFFFileHeader*** | (); |
|  | |  |  |
| IEcoCOFF1OptionalHeader\* | | ***createCOFFOptionalHeader*** | (); |
|  | |  |  |
| IEcoCOFF1SectionHeader\* | | ***createCOFFSectionHeader*** | (); |
| IEcoCOFF1RelocationTableEntry\* | | ***createCOFFRelocationTableEntry*** | (); |
|  | |  |  |
| IEcoCOFF1ArchiveMemberHeader\* | | ***createCOFFArchiveMemberHeader*** | (); |
|  | |  |  |
| IEcoMZEXE1ImageFile\* | | ***createMSDOSImageFile*** | (); |
|  | |  |  |
| IEcoMZEXE1ExecutableHeader\* | | ***createMSDOSExecutableHeader*** | (); |
|  | |  |  |
| IEcoMZEXE1HeaderExpansion\* | | ***createMSDOSHeaderExpansion*** | (); |
|  | |  |  |
| IEcoMZEXE1FreeFormatContent\* | | ***createMSDOSFreeFormatContent*** | (); |
|  | |  |  |
| IEcoPECOFF1WindowsSpecificFields\* | | ***createWindowsSpecificFields*** | (); |
|  | |  |  |
| IEcoPECOFF1DataDirectories\* | | ***createDataDirectories*** | (); |
|  | |  |  |
| IEcoPECOFF1ResourceDataEntry\* | | ***createResourceDataEntry*** | (); |
|  | |  |  |
| IEcoPECOFF1ResourceDirectoryEntry\* | | ***createResourceDirectoryEntry*** | (); |
|  | |  |  |
| IEcoPECOFF1ResourceDirectoryTable\* | | ***createResourceDirectoryTable*** | (); |
|  | |  |  |
| IEcoPECOFF1BaseRelocationBlock\* | | ***createBaseRelocationBlock*** | (); |
|  | |  |  |
| IEcoPECOFF1ImportDirectoryEntry\* | | ***createImportDirectoryEntry*** | (); |
|  | |  |  |
| IEcoPECOFF1ImportLookupTable\* | | ***createImportLookupTable*** | (); |
|  | |  |  |
| IEcoPECOFF1FreeFormatContent\* | | ***createFreeFormatContent*** | (); |
|  | |  |  |
| IEcoPECOFF1SymbolTable\* | | ***createSymbolTable*** | (); |
|  | |  |  |
| IEcoPECOFF1FirstLinkerMember\* | | ***createFirstLinkerMember*** | (); |
|  | |  |  |
| IEcoPECOFF1SecondLinkerMember\* | | ***createSecondLinkerMember*** | (); |
|  | |  |  |
| IEcoPECOFF1ObjectFileMember\* | | ***createObjectFileMember*** | (); |
|  | |  |  |
| IEcoPECOFF1ImportLibraryMember\* | | ***createImportLibraryMember*** | (); |
|  | |  |  |
| } | |  |  |

* + 1. **readObjectFile function**

The function

* + 1. **writeObjectFile function**

The function

* + 1. **readImageFile function**

The function

* + 1. **writeImageFile function**

The function

* + 1. **readArchiveFile function**

The function

* + 1. **writeArchiveFile function**

The function

* + 1. **createObjectFile function**

The function

* + 1. **createImageFile function**

The function

* + 1. **createArchiveFile function**

The function

* + 1. **createCOFFFileHeader function**

The function

* + 1. **createCOFFOptionalHeader function**

The function

* + 1. **createCOFFSectionHeader function**

The function

* + 1. **createCOFFRelocationTableEntry function**

The function

* + 1. **createCOFFArchiveMemberHeader function**

The function

* + 1. **createMSDOSImageFile function**

The function

* + 1. **createMSDOSExecutableHeader function**

The function

* + 1. **createMSDOSHeaderExpansion function**

The function

* + 1. **createMSDOSFreeFormatContent function**

The function

* + 1. **createWindowsSpecificFields function**

The function

* + 1. **createDataDirectories function**

The function

* + 1. **createResourceDataEntry function**

The function

* + 1. **createResourceDirectoryEntry function**

The function

* + 1. **createResourceDirectoryTable function**

The function

* + 1. **createBaseRelocationBlock function**

The function

* + 1. **createImportDirectoryEntry function**

The function

* + 1. **createImportLookupTable function**

The function

* + 1. **createFreeFormatContent function**

The function

* + 1. **createSymbolTable function**

The function

* + 1. **createFirstLinkerMember function**

The function

* + 1. **createSecondLinkerMember function**

The function

* + 1. **createObjectFileMember function**

The function

* + 1. **createImportLibraryMember function**

The function

1. **IEcoPECOFF1BaseRelocationBlock** **Interface**
   1. **IEcoPECOFF1BaseRelocationBlock IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoList1.idl" | | | |
| [  object,  uguid(BEF7BDC9-C2FA-417B-A63D-DA418C8F00C9),  ] | | | |
| interface IEcoPECOFF1BaseRelocationBlock : IEcoUnknown { | | | |
|  | | | |
| uint32\_t | | ***get\_PageRVA*** | (); |
|  | |  |  |
| void | | ***set\_PageRVA*** | ([in] uint32\_t page); |
|  | |  |  |
| uint32\_t | | ***get\_BlockSize*** | (); |
|  | |  |  |
| void | | ***set\_BlockSize*** | ([in] uint32\_t size); |
|  | |  |  |
| IEcoList1\* | | ***get\_FieldEntries*** | (); |
|  | |  |  |
| void | | ***set\_FieldEntries*** | ([in] IEcoList1\* entries); |
|  | | | |
| } | |  |  |

* + 1. **get\_PageRVA function**

The function

* + 1. **set\_PageRVA function**

The function

* + 1. **get\_BlockSize function**

The function

* + 1. **set\_BlockSize function**

The function

* + 1. **get\_FieldEntries function**

The function

* + 1. **set\_FieldEntries function**

The function

1. **IEcoPECOFF1DataDirectories** **Interface**
   1. **IEcoPECOFF1DataDirectories IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl" | | | |
| [  object,  uguid(C8FCA66A-953E-4389-BD3C-A6AC36163CBB),  ] | | | |
| interface IEcoPECOFF1DataDirectories : IEcoUnknown { | | | |
|  | | | |
| PECOFF1\_IMAGE\_DATA\_DIRECTORIES\_DESCRIPTOR\* | | ***get\_Descriptor*** | (); |
|  | |  |  |
| void | | ***set\_Descriptor*** | ([in] PECOFF1\_IMAGE\_DATA\_DIRECTORIES\_DESCRIPTOR\* descriptor); |
|  | | | |
| } | |  |  |

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

The function

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

The function

1. **IEcoPECOFF1DebugSymbolInformation** **Interface**
   1. **IEcoPECOFF1DebugSymbolInformation IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoList1.idl" | | | |
| [  object,  uguid(5528B3FE-D774-4AD0-AFB9-17FB5C58D0CC),  ] | | | |
| interface IEcoPECOFF1DebugSymbolInformation : IEcoUnknown { | | | |
|  | | | |
| uint32\_t | | ***get\_PageRVA*** | (); |
|  | |  |  |
| void | | ***set\_PageRVA*** | ([in] uint32\_t page); |
|  | |  |  |
| uint32\_t | | ***get\_BlockSize*** | (); |
|  | |  |  |
| void | | ***set\_BlockSize*** | ([in] uint32\_t size); |
|  | |  |  |
| IEcoList1\* | | ***get\_FieldEntries*** | (); |
|  | |  |  |
| void | | ***set\_FieldEntries*** | ([in] IEcoList1\* entries); |
|  | | | |
| } | |  |  |

* + 1. **get\_PageRVA function**

The function

* + 1. **set\_PageRVA function**

The function

* + 1. **get\_BlockSize function**

The function

* + 1. **set\_BlockSize function**

The function

* + 1. **get\_FieldEntries function**

The function

* + 1. **set\_FieldEntries function**

The function

1. **IEcoPECOFF1FirstLinkerMember** **Interface**
   1. **IEcoPECOFF1FirstLinkerMember IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoList1.idl" | | | |
| [  object,  uguid(643D78E1-7D40-462C-AD1C-C95E234C0F76),  ] | | | |
| interface IEcoPECOFF1FirstLinkerMember : IEcoUnknown { | | | |
|  | | | |
| uint32\_t | | ***get\_NumberOfSymbols*** | (); |
|  | |  |  |
| void | | ***set\_NumberOfSymbols*** | ([in] uint32\_t number); |
|  | |  |  |
| IEcoList1\* | | ***get\_Offsets*** | (); |
|  | |  |  |
| void | | ***set\_Offsets*** | ([in] IEcoList1\* offsets); |
|  | |  |  |
| IEcoList1\* | | ***get\_StringTable*** | (); |
|  | |  |  |
| void | | ***set\_StringTable*** | ([in] IEcoList1\* entries); |
|  | | | |
| } | |  |  |

* + 1. **get\_NumberOfSymbols function**

The function

* + 1. **set\_NumberOfSymbols function**

The function

* + 1. **get\_Offsets function**

The function

* + 1. **set\_Offsets function**

The function

* + 1. **get\_StringTable function**

The function

* + 1. **set\_StringTable function**

The function

1. **IEcoPECOFF1FreeFormatContent** **Interface**
   1. **IEcoPECOFF1FreeFormatContent IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl" | | | |
| [  object,  uguid(E532E7FC-3578-4E61-A528-D5397B0F8D98),  ] | | | |
| interface IEcoPECOFF1FreeFormatContent : 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. **IEcoPECOFF1ImageFile** **Interface**
   1. **IEcoPECOFF1ImageFile IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoCOFF1.idl"  import "IEcoMZEXE1.idl"  import "IEcoList1.idl"  import "IEcoPECOFF1WindowsSpecificFields.idl"  import "IEcoPECOFF1DataDirectories.idl" | | | |
| [  object,  uguid(A3BDB241-9335-43CC-90F1-AB5CA698E632),  ] | | | |
| interface IEcoPECOFF1ImageFile : IEcoUnknown { | | | |
|  | | | |
| IEcoMZEXE1ImageFile\* | | ***get\_MSDOSStub*** | (); |
|  | |  |  |
| void | | ***set\_MSDOSStub*** | ([in] IEcoMZEXE1ImageFile\* pIImageFile); |
|  | |  |  |
| uint32\_t | | ***get\_Signature*** | (); |
|  | |  |  |
| void | | ***set\_Signature*** | ([in] uint32\_t magic); |
|  | |  |  |
| IEcoCOFF1FileHeader\* | | ***get\_FileHeader*** | (); |
|  | |  |  |
| void | | ***set\_FileHeader*** | ([in] IEcoCOFF1FileHeader\* pIFileHeader); |
|  | |  |  |
| IEcoCOFF1OptionalHeader\* | | ***get\_OptionalHeader*** | (); |
|  | |  |  |
| void | | ***set\_OptionalHeader*** | ([in] IEcoCOFF1OptionalHeader\* pIOptionalHeader); |
|  | |  |  |
| IEcoList1\* | | ***get\_SectionHeaders*** | (); |
|  | |  |  |
| void | | ***set\_SectionHeaders*** | ([in] IEcoList1\* pIHeaders); |
|  | |  |  |
| IEcoPECOFF1WindowsSpecificFields\* | | ***get\_WindowsSpecificFields*** | (); |
|  | |  |  |
| void | | ***set\_WindowsSpecificFields*** | ([in] IEcoPECOFF1WindowsSpecificFields\* pIFields); |
|  | |  |  |
| IEcoPECOFF1DataDirectories\* | | ***get\_DataDirectories*** | (); |
|  | |  |  |
| void | | ***set\_DataDirectories*** | ([in] IEcoPECOFF1DataDirectories\* pIDirectories); |
|  | | | |
| } | |  |  |

* + 1. **get\_MSDOSStub function**

The function

* + 1. **set\_MSDOSStub function**

The function

* + 1. **get\_Signature function**

The function

* + 1. **set\_Signature function**

The function

* + 1. **get\_FileHeader function**

The function

* + 1. **set\_FileHeader function**

The function

* + 1. **get\_OptionalHeader function**

The function

* + 1. **set\_OptionalHeader function**

The function

* + 1. **get\_SectionHeaders function**

The function

* + 1. **set\_SectionHeaders function**

The function

* + 1. **get\_WindowsSpecificFields function**

The function

* + 1. **set\_WindowsSpecificFields function**

The function

* + 1. **get\_DataDirectories function**

The function

* + 1. **set\_DataDirectories function**

The function

1. **IEcoPECOFF1ImportDirectoryEntry** **Interface**
   1. **IEcoPECOFF1ImportDirectoryEntry IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoList1.idl" | | | |
| [  object,  uguid(70E40436-188D-44E1-9EE9-8362770213FB),  ] | | | |
| interface IEcoPECOFF1ImportDirectoryEntry : IEcoUnknown { | | | |
|  | | | |
| PECOFF1\_IMPORT\_DIRECTORY\_ENTRY\_DESCRIPTOR\* | | ***get\_Descriptor*** | (); |
|  | |  |  |
| void | | ***set\_Descriptor*** | ([in] PECOFF1\_IMPORT\_DIRECTORY\_ENTRY\_DESCRIPTOR\* descriptor); |
|  | |  |  |
| char\_t\* | | ***get\_Name*** | (); |
|  | |  |  |
| void | | ***set\_Name*** | ([in] char\_t\* name); |
|  | |  |  |
| IEcoList1\* | | ***get\_ImportLookupTable*** | (); |
|  | |  |  |
| void | | ***set\_ImportLookupTable*** | ([in] IEcoList1\* entries); |
|  | | | |
| } | |  |  |

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

The function

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

The function

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

The function

* + 1. **set\_Name function**

The function

* + 1. **get\_ImportLookupTable function**

The function

* + 1. **set\_ImportLookupTable function**

The function

1. **IEcoPECOFF1ImportLibraryMember** **Interface**
   1. **IEcoPECOFF1ImportLibraryMember IDL**

|  |  |
| --- | --- |
| **ECO IDL** | |
| import "IEcoBase1.idl"  import "IEcoList1.idl" | | | | |
| [  object,  uguid(28F7BC95-BFDF-4243-B9F8-F3398DE02FF3),  ] | | | | |
| interface IEcoPECOFF1ImportLibraryMember : IEcoUnknown { | | | | |
|  | | | | |
| PECOFF1\_IMPORT\_OBJECT\_HEADER\_DESCRIPTOR\* | ***get\_Descriptor*** | | | (); |
|  |  | | |  |
| void | ***set\_Descriptor*** | | | ([in] PECOFF1\_IMPORT\_OBJECT\_HEADER\_DESCRIPTOR\* descriptor); |
|  |  | | |  |
| char\_t\* | ***get\_ImportName*** | | | (); |
|  |  | | |  |
| void | ***set\_ImportName*** | | | ([in] char\_t\* name); |
|  |  | | |  |
| char\_t\* | ***get\_LibraryName*** | | | (); |
|  |  | | |  |
| void | ***set\_LibraryName*** | | | ([in] char\_t\* name); |
|  | | | | |
| } | | |  |  |

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

The function

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

The function

* + 1. **get\_ImportName function**

The function

* + 1. **set\_ImportName function**

The function

* + 1. **get\_LibraryName function**

The function

* + 1. **set\_LibraryName function**

The function

1. **IEcoPECOFF1ImportLookupTable** **Interface**
   1. **IEcoPECOFF1ImportLookupTable IDL**

|  |  |
| --- | --- |
| **ECO IDL** | |
| import "IEcoBase1.idl" | | | | |
| [  object,  uguid(A7994B05-02D4-4426-9084-8F52F9951D6E),  ] | | | | |
| interface IEcoPECOFF1ImportLookupTable : IEcoUnknown { | | | | |
|  | | | | |
| PECOFF1\_IMPORT\_LOOKUP\_ENTRY\_DESCRIPTOR\* | ***get\_Descriptor*** | | | (); |
|  |  | | |  |
| void | ***set\_Descriptor*** | | | ([in] PECOFF1\_IMPORT\_LOOKUP\_ENTRY\_DESCRIPTOR\* descriptor); |
|  |  | | |  |
| uint16\_t | ***get\_Hint*** | | | (); |
|  |  | | |  |
| void | ***set\_Hint*** | | | ([in] uint16\_t hint); |
|  |  | | |  |
| char\_t\* | ***get\_Name*** | | | (); |
|  |  | | |  |
| void | ***set\_Name*** | | | ([in] char\_t\* name); |
|  | | | | |
| } | | |  |  |

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

The function

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

The function

* + 1. **get\_Hint function**

The function

* + 1. **set\_Hint function**

The function

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

The function

* + 1. **set\_Name function**

The function

1. **IEcoPECOFF1FirstLinkerMember** **Interface**
   1. **IEcoPECOFF1FirstLinkerMember IDL**

|  |  |
| --- | --- |
| **ECO IDL** | |
| import "IEcoBase1.idl"  import "IEcoList1.idl" | | | | |
| [  object,  uguid(643D78E1-7D40-462C-AD1C-C95E234C0F76),  ] | | | | |
| interface IEcoPECOFF1FirstLinkerMember : IEcoUnknown { | | | | |
|  | | | | |
| uint32\_t | ***get\_NumberOfSymbols*** | | | (); |
|  |  | | |  |
| void | ***set\_NumberOfSymbols*** | | | ([in] uint32\_t number); |
|  |  | | |  |
| IEcoList1\* | ***get\_Offsets*** | | | (); |
|  |  | | |  |
| void | ***set\_Offsets*** | | | ([in] IEcoList1\* offsets); |
|  |  | | |  |
| IEcoList1\* | ***get\_StringTable*** | | | (); |
|  |  | | |  |
| void | ***set\_StringTable*** | | | ([in] IEcoList1\* entries); |
|  | | | | |
| } | | |  |  |

* + 1. **get\_NumberOfSymbols function**

The function

* + 1. **set\_NumberOfSymbols function**

The function

* + 1. **get\_Offsets function**

The function

* + 1. **set\_Offsets function**

The function

* + 1. **get\_StringTable function**

The function

* + 1. **set\_StringTable function**

The function

1. **IEcoPECOFF1ObjectFile** **Interface**
   1. **IEcoPECOFF1ObjectFile IDL**

|  |  |
| --- | --- |
| **ECO IDL** | |
| import "IEcoBase1.idl"  import "IEcoCOFF1.idl"  import "IEcoList1.idl" | | | | |
| [  object,  uguid(E187FED9-B542-47E7-8199-F963EF20B820),  ] | | | | |
| interface IEcoPECOFF1ObjectFile : IEcoUnknown { | | | | |
|  | | | | |
| IEcoCOFF1FileHeader\* | ***get\_FileHeader*** | | | (); |
|  |  | | |  |
| void | ***set\_FileHeader*** | | | ([in] IEcoCOFF1FileHeader\* pIFileHeader |
|  |  | | |  |
| IEcoList1\* | ***get\_SectionHeaders*** | | | (); |
|  |  | | |  |
| void | ***set\_SectionHeaders*** | | | ([in] IEcoList1\* pIHeaders); |
|  | | | | |
| } | | |  |  |

* + 1. **get\_FileHeader function**

The function

* + 1. **set\_FileHeader function**

The function

* + 1. **get\_SectionHeaders function**

The function

* + 1. **set\_SectionHeaders function**

The function

1. **IEcoPECOFF1ObjectFileMember** **Interface**
   1. **IEcoPECOFF1ObjectFileMember IDL**

|  |  |
| --- | --- |
| **ECO IDL** | |
| import "IEcoBase1.idl"  import "IEcoPECOFF1ObjectFile.idl" | | | | |
| [  object,  uguid(F7429B05-FF27-45D3-B9FE-8BAAB0860844),  ] | | | | |
| interface IEcoPECOFF1ObjectFileMember : IEcoUnknown { | | | | |
|  | | | | |
| void\* | ***get\_Descriptor*** | | | (); |
|  |  | | |  |
| void | ***set\_Descriptor*** | | | ([in] void\* descriptor); |
|  |  | | |  |
| IEcoPECOFF1ObjectFile\* | ***get\_ObjectFile*** | | | (); |
|  |  | | |  |
| void | ***set\_ObjectFile*** | | | ([in] IEcoPECOFF1ObjectFile\* pIObjectFile); |
|  | | | | |
| } | | |  |  |

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

The function

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

The function

* + 1. **get\_ObjectFile function**

The function

* + 1. **set\_ObjectFile function**

The function

1. **IEcoPECOFF1ResourceDataEntry** **Interface**
   1. **IEcoPECOFF1ResourceDataEntry IDL**

|  |  |
| --- | --- |
| **ECO IDL** | |
| import "IEcoBase1.idl" | | | | |
| [  object,  uguid(F9860030-4D0D-4B52-B415-DAA70F2FFC6B),  ] | | | | |
| interface IEcoPECOFF1ResourceDataEntry : IEcoUnknown { | | | | |
|  | | | | |
| uint32\_t | ***get\_DataRVA*** | | | (); |
|  |  | | |  |
| void | ***get\_DataRVA*** | | | ([in] uint32\_t address); |
|  |  | | |  |
| uint32\_t | ***get\_Size*** | | | (); |
|  |  | | |  |
| void | ***set\_Size*** | | | ([in] uint32\_t size); |
|  |  | | |  |
| uint32\_t | ***get\_Codepage*** | | | (); |
|  |  | | |  |
| void | ***set\_Codepage*** | | | ([in] uint32\_t codepage); |
|  |  | | |  |
| uint32\_t | ***get\_Reserved*** | | | (); |
|  |  | | |  |
| void | ***set\_Reserved*** | | | (([in] uint32\_t dd); |
|  |  | | |  |
| byte\_t\* | ***get\_Data*** | | | (); |
|  |  | | |  |
| void | ***set\_Data*** | | | (([in] byte\_t\* buffer); |
|  | | | | |
| } | | |  |  |

* + 1. **get\_DataRVA function**

The function

* + 1. **set\_DataRVA function**

The function

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

The function

* + 1. **set\_Size function**

The function

* + 1. **get\_Codepage function**

The function

* + 1. **set\_Codepage function**

The function

* + 1. **get\_Reserved function**

The function

* + 1. **set\_Reserved function**

The function

* + 1. **get\_Data function**

The function

* + 1. **set\_Data function**

The function

1. **IEcoPECOFF1ResourceDirectoryEntry** **Interface**
   1. **IEcoPECOFF1ResourceDirectoryEntry IDL**

|  |  |
| --- | --- |
| **ECO IDL** | |
| import "IEcoBase1.idl"  import "IEcoPECOFF1ResourceDataEntry.idl"  import "IEcoPECOFF1ResourceDirectoryTable.idl" | | | | |
| [  object,  uguid(303F4938-739A-4A2B-8C5A-86AEDB59C497),  ] | | | | |
| interface IEcoPECOFF1ResourceDirectoryEntry : IEcoUnknown { | | | | |
|  | | | | |
| uint32\_t | ***get\_NameRVA*** | | | (); |
|  |  | | |  |
| void | ***set\_NameRVA*** | | | ([in] uint32\_t address); |
|  |  | | |  |
| uint32\_t | ***get\_IntegerID*** | | | (); |
|  |  | | |  |
| void | ***set\_IntegerID*** | | | ([in] uint32\_t ID); |
|  |  | | |  |
| IEcoPECOFF1ResourceDataEntry\* | ***get\_DataEntryRVA*** | | | (); |
|  |  | | |  |
| void | ***set\_DataEntryRVA*** | | | ([in] IEcoPECOFF1ResourceDataEntry\* entry); |
|  |  | | |  |
| IEcoPECOFF1ResourceDirectoryTable\* | ***get\_SubdirectoryRVA*** | | | (); |
|  |  | | |  |
| void | ***set\_SubdirectoryRVA*** | | | ([in] IEcoPECOFF1ResourceDirectoryTable\* table); |
|  | | | | |
| } | | |  |  |

* + 1. **get\_NameRVA function**

The function

* + 1. **set\_NameRVA function**

The function

* + 1. **get\_IntegerID function**

The function

* + 1. **set\_IntegerID function**

The function

* + 1. **get\_DataEntryRVA function**

The function

* + 1. **set\_DataEntryRVA function**

The function

* + 1. **get\_SubdirectoryRVA function**

The function

* + 1. **set\_SubdirectoryRVA function**

The function

1. **IEcoPECOFF1ResourceDirectoryTable** **Interface**
   1. **IEcoPECOFF1ResourceDirectoryTable IDL**

|  |  |
| --- | --- |
| **ECO IDL** | |
| import "IEcoBase1.idl"  import "IEcoList1.idl" | | | | |
| [  object,  uguid(836D674-C9A2-4315-A99B-70FA23583140),  ] | | | | |
| interface IEcoPECOFF1ResourceDirectoryTable : IEcoUnknown { | | | | |
|  | | | | |
| uint32\_t | ***get\_Characteristics*** | | | (); |
|  |  | | |  |
| void | ***set\_Characteristics*** | | | ([in] uint32\_t flags); |
|  |  | | |  |
| uint32\_t | ***get\_TimeDateStamp*** | | | (); |
|  |  | | |  |
| void | ***set\_TimeDateStamp*** | | | ([in] uint32\_t stamp); |
|  |  | | |  |
| uint16\_t | ***get\_MajorVersion*** | | | (); |
|  |  | | |  |
| void | ***set\_MajorVersion*** | | | ([in] uint16\_t version); |
|  |  | | |  |
| uint16\_t | ***get\_MinorVersion*** | | | (); |
|  |  | | |  |
| void | ***set\_MinorVersion*** | | | ([in] uint16\_t version); |
|  |  | | |  |
| IEcoList1\* | ***get\_NumberOfNameEntries*** | | | (); |
|  |  | | |  |
| void | ***set\_NumberOfNameEntries*** | | | ([in] IEcoList1\* entries); |
|  |  | | |  |
| IEcoList1\* | ***get\_NumberOfIDEntries*** | | | (); |
|  |  | | |  |
| void | ***set\_NumberOfIDEntries*** | | | ([in] IEcoList1\* entries); |
|  | | | | |
| } | | |  |  |

* + 1. **get\_Characteristics function**

The function

* + 1. **set\_Characteristics function**

The function

* + 1. **get\_TimeDateStamp function**

The function

* + 1. **set\_TimeDateStamp function**

The function

* + 1. **get\_MajorVersion function**

The function

* + 1. **set\_MajorVersion function**

The function

* + 1. **get\_MinorVersion function**

The function

* + 1. **set\_MinorVersion function**

The function

* + 1. **get\_NumberOfNameEntries function**

The function

* + 1. **set\_NumberOfNameEntries function**

The function

* + 1. **get\_NumberOfIDEntries function**

The function

* + 1. **set\_NumberOfIDEntries function**

The function

1. **IEcoPECOFF1SecondLinkerMember** **Interface**
   1. **IEcoPECOFF1SecondLinkerMember IDL**

|  |  |
| --- | --- |
| **ECO IDL** | |
| import "IEcoBase1.idl"  import "IEcoList1.idl" | | | | |
| [  object,  uguid(48DC167F-24C1-4C26-A3A3-914A9A518334),  ] | | | | |
| interface IEcoPECOFF1SecondLinkerMember : IEcoUnknown { | | | | |
|  | | | | |
| uint32\_t | ***get\_NumberOfMembers*** | | | (); |
|  |  | | |  |
| void | ***set\_NumberOfMembers*** | | | ([in] uint32\_t number); |
|  |  | | |  |
| IEcoList1\* | ***get\_Offsets*** | | | (); |
|  |  | | |  |
| void | ***set\_Offsets*** | | | ([in] IEcoList1\* offsets); |
|  |  | | |  |
| uint32\_t | ***get\_NumberOfSymbols*** | | | (); |
|  |  | | |  |
| void | ***set\_NumberOfSymbols*** | | | ([in] uint32\_t number); |
|  |  | | |  |
| IEcoList1\* | ***get\_Indices*** | | | (); |
|  |  | | |  |
| void | ***set\_Indices*** | | | ([in] IEcoList1\* indices); |
|  |  | | |  |
| IEcoList1\* | ***get\_StringTable*** | | | (); |
|  |  | | |  |
| void | ***set\_StringTable*** | | | ([in] IEcoList1\* entries); |
|  | | | | |
| } | | |  |  |

* + 1. **get\_NumberOfMembers function**

The function

* + 1. **set\_NumberOfMembers function**

The function

* + 1. **get\_Offsets function**

The function

* + 1. **set\_Offsets function**

The function

* + 1. **get\_NumberOfSymbols function**

The function

* + 1. **set\_NumberOfSymbols function**

The function

* + 1. **get\_Indices function**

The function

* + 1. **set\_Indices function**

The function

* + 1. **get\_StringTable function**

The function

* + 1. **set\_StringTable function**

The function

1. **IEcoPECOFF1SymbolTable** **Interface**
   1. **IEcoPECOFF1SymbolTable IDL**

|  |  |
| --- | --- |
| **ECO IDL** | |
| import "IEcoBase1.idl"  import "IEcoList1.idl" | | | | |
| [  object,  uguid(5528B3FE-D774-4AD0-AFB9-17FB5C58D0CC),  ] | | | | |
| interface IEcoPECOFF1SymbolTable : IEcoUnknown { | | | | |
|  | | | | |
| IEcoList1\* | ***get\_Records*** | | | (); |
|  |  | | |  |
| void | ***set\_Records*** | | | ([in] IEcoList1\* pIRecords); |
|  |  | | |  |
| IEcoList1\* | ***get\_StringTable*** | | | (); |
|  |  | | |  |
| void | ***set\_StringTable*** | | | ([in] IEcoList1\* pIStringTable); |
|  | | | | |
| } | | |  |  |

* + 1. **get\_Records function**

The function

* + 1. **set\_Records function**

The function

* + 1. **get\_StringTable function**

The function

* + 1. **set\_StringTable function**

The function

1. **IEcoPECOFF1WindowsSpecificFields** **Interface**
   1. **IEcoPECOFF1WindowsSpecificFields IDL**

|  |  |
| --- | --- |
| **ECO IDL** | |
| import "IEcoBase1.idl" | | | | |
| [  object,  uguid(D8C5A9B8-B4FB-4F7B-89A0-830D20513359),  ] | | | | |
| interface IEcoPECOFF1WindowsSpecificFields : IEcoUnknown { | | | | |
|  | | | | |
| PECOFF1\_WINDOWS\_SPECIFIC\_FIELDS\_DESCRIPTOR\* | ***get\_Descriptor*** | | | (); |
|  |  | | |  |
| void | ***set\_Descriptor*** | | | ([in] PECOFF1\_WINDOWS\_SPECIFIC\_FIELDS\_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**