**Specification**

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|  |  |
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1. **Overview**

This document describes the requirements for the implementation of the Eco.Core1 component. (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.** **Core1 Component**

The Eco.Core1 component is

The component has the following description:

1. **IEcoComponentFactory Interface**
   1. **IEcoComponentFactory IDL**

|  |
| --- |
| **ECO IDL** |
| import "ErrEcoCodes.idl "  import "depend.idl" | | | |
| [  object,  uguid(00000000-0000-0000-0000-000000000055),  ] | | | |
| interface IEcoComponentFactory : IEcoUnknown { | | | |
|  | | | |
| int16\_t | | ***Alloc*** | ([in] IEcoUnknown \*pISystem,  [in] IEcoUnknown \*pIUnknownOuter,  [in] const UGUID\* riid,  [out] voidptr\_t\* ppv); |
|  | |  |  |
| int16\_t | | ***Init*** | ([in] IEcoUnknown \*pISystem,  [in] voidptr\_t pv); |
|  | |  |  |
| char\_t\* | | ***get\_Name*** | ([in] void); |
|  | |  |  |
| char\_t\* | | ***get\_Version*** | ([in] void); |
|  | |  |  |
| char\_t\* | | ***get\_Manufacturer*** | ([in] void); |
|  | |  |  |
| } | |  |  |

* + 1. **Alloc function**

The function

* + 1. **Init function**

The function

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

The function

* + 1. **get\_Version function**

The function

* + 1. **get\_Manufacturer function**

The function

1. **IEcoUnknown Interface**
   1. **IEcoUnknown IDL**

|  |
| --- |
| **ECO IDL** |
| import "ErrEcoCodes.idl "  import "depend.idl" | | | |
| [  object,  uguid(00000000-0000-0000-0000-0000000000AA),  ] | | | |
| interface IEcoUnknown { | | | |
|  | | | |
| int16\_t | | ***QueryInterface*** | ([in] const UGUID\* riid,  [out] voidptr\_t\* ppv); |
|  | | | |
| uint32\_t | | ***AddRef*** | ([in] void); |
|  | | | |
| **uint32\_t** | | ***Release*** | ([in] void); |
|  | | | |
| } | |  |  |

* + 1. **QueryInterface function**

The function

* + 1. **AddRef function**

The function

* + 1. **Release function**

The function

1. **IEcoSystem1 Interface**
   1. **IEcoSystem1 IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl" | | | |
| [  object,  uguid(00000000-0000-0000-0000-000000000100),  ] | | | |
| interface IEcoSystem1 : IEcoUnknown { | | | |
|  | | | |
| void | | ***set\_Data*** | ([in] voidptr\_t pv); |
|  | | | |
| void\* | | ***get\_Data*** | ([in] void); |
|  | |  |  |
| } | |  |  |

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

The function

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

The function

1. **IEcoConnectionPoint Interface**
   1. **IEcoConnectionPoint IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl" | | | |
| [  object,  uguid(00000003-0000-0000-C000-000000000046),  ] | | | |
| interface IEcoConnectionPoint : IEcoUnknown { | | | |
|  | | | |
| int16\_t | | ***GetConnectionInterface*** | ([out] UGUID \*pIID); |
|  | | | |
| int16\_t | | ***GetConnectionPointContainer*** | ([out] IEcoConnectionPointContainer\*\* ppCPC); |
|  | |  |  |
| int16\_t | | ***Advise*** | ([in] IEcoUnknown\* pUnkSink,  [out] uint32\_t \*pcCookie); |
|  | |  |  |
| int16\_t | | ***Unadvise*** | ([in] uint32\_t cCookie); |
|  | |  |  |
| int16\_t | | ***EnumConnections*** | ([out] IEcoEnumConnections\*\* ppEnum); |
|  | |  |  |
| } | |  |  |

* + 1. **GetConnectionInterface function**

The function

* + 1. **GetConnectionPointContainer function**

The function

* + 1. **Advise function**

The function

* + 1. **Unadvise function**

The function

* + 1. **EnumConnections function**

The function

1. **IEcoConnectionPointContainer Interface**
   1. **IEcoConnectionPointContainer IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoEnumConnectionPoints.idl " | | | |
| [  object,  uguid(00000005-0000-0000-C000-000000000046),  ] | | | |
| interface IEcoConnectionPointContainer : IEcoUnknown { | | | |
|  | | | |
| int16\_t | | ***EnumConnectionPoints*** | ([out] IEcoEnumConnectionPoints\*\* ppEnum); |
|  | | | |
| int16\_t | | ***FindConnectionPoint*** | ([in] const UGUID\* riid,  [out] IEcoConnectionPoint\*\* ppCP); |
|  | |  |  |
| } | |  |  |

* + 1. **EnumConnectionPoints function**

The function

* + 1. **FindConnectionPoint function**

The function

1. **IEcoEnumConnectionPoints Interface**
   1. **IEcoEnumConnectionPoints IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoConnectionPoint.idl" | | | |
| [  object,  uguid(00000004-0000-0000-C000-000000000046),  ] | | | |
| interface IEcoEnumConnectionPoints : IEcoUnknown { | | | |
|  | | | |
| int16\_t | | ***Next*** | ([in] uint32\_t cConnections,  [out] IEcoConnectionPoint\*\* ppCP,  [out] uint32\_t \*pcFetched); |
|  | | | |
| int16\_t | | ***Skip*** | ([in] uint32\_t cConnections); |
|  | |  |  |
| int16\_t | | ***Reset*** | ([in] void); |
|  | |  |  |
| int16\_t | | ***Clone*** | ([out] IEcoEnumConnectionPoints\*\* ppEnum); |
|  | |  |  |
| } | |  |  |

* + 1. **Next function**

The function

* + 1. **Skip function**

The function

* + 1. **Reset function**

The function

* + 1. **Clone function**

The function

1. **IEcoEnumConnections Interface**
   1. **IEcoEnumConnections IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl" | | | |
| [  object,  uguid(00000002-0000-0000-C000-000000000046),  ] | | | |
| interface IEcoEnumConnections : IEcoUnknown { | | | |
|  | | | |
| int16\_t | | ***Next*** | ([in] uint32\_t cConnections,  [out] struct EcoConnectionData \*rgcd,  [out] uint32\_t \*pcFetched); |
|  | | | |
| int16\_t | | ***Skip*** | ([in] uint32\_t cConnections); |
|  | |  |  |
| int16\_t | | ***Reset*** | ([in] void); |
|  | |  |  |
| int16\_t | | ***Clone*** | ([out] IEcoEnumConnections\*\* ppEnum); |
|  | |  |  |
| } | |  |  |

* + 1. **Next function**

The function

* + 1. **Skip function**

The function

* + 1. **Reset function**

The function

* + 1. **Clone function**

The function

1. **IEcoError1 Interface**
   1. **IEcoError1 IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl" | | | |
| [  object,  uguid(00000000-0000-0000-0000-00000000FFFE),  ] | | | |
| interface IEcoError1 : IEcoUnknown { | | | |
|  | | | |
| void | | ***set\_ErrorMode*** | ([in] uint16\_t errMode); |
|  | | | |
| uint16\_t | | ***get\_ErrorMode*** | ([in] void); |
|  | |  |  |
| void | | ***set\_LastError*** | ([in] int16\_t errCode); |
|  | |  |  |
| uint16\_t | | ***get\_LastError*** | ([in] void); |
|  | |  |  |
| uint16\_t | | ***get\_Description*** | ([in] int16\_t errCode,  [in | out] voidptr\_t pvMessage,  [in | out] uint16\_t\* iSize); |
|  | |  |  |
| } | |  |  |

* + 1. **set\_ErrorMode function**

The function

* + 1. **get\_ErrorMode function**

The function

* + 1. **set\_LastError function**

The function

* + 1. **get\_LastError function**

The function

* + 1. **get\_Description 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**