**Specification**

USPD: US.ECO.00006-01 90

Component: List

UGUID:

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1. **Overview**

This document describes the requirements for the implementation of the Eco.Queue1 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.Queue1 Component**

The Eco.Queue1 component is a

The component has the following description:

* 1. **IEcoQueue1 IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.h" | | | |
| [  object,  uguid(287E5923-1366-46A3-A2D7-EAEAFD97068E),  ] | | | |
| interface IEcoQueue1 : IEcoUnknown { | | | |
|  | | | |
| uint32\_t | | ***Count*** | ([in] void); |
|  | | | |
| voidptr\_t | | ***Peek*** | ([in] void); |
|  | | | |
| voidptr\_t | | ***Dequeue*** | ([in] void); |
|  | | | |
| void | | ***Enqueue*** | ([in] voidptr\_t obj); |
|  | | | |
| void | | ***Clear*** | ([in] void); |
| } | |  |  |

* + 1. **Count function**

The function retrieves the number of elements contained in the interface.

* + 1. **Peek function**

The function returns the object that is at the beginning of the queue, but does not delete it.

* + 1. **Dequeue function**

The function removes an object from the beginning of the queue and returns it.

* + 1. **Enqueue function**

The function adds the object to the end of the queue.

* + 1. **Clear function**

The function removes all objects from the queue.

* 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**