

# OpenClovis Software Development Kit (SDK) Service Description and API Reference for Execution Object (EO) Service

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# Chapter 1

# **Functional Overview**

The OpenOpenClovis Execution Object (EO) encapsulates each distinct OpenOpenClovis ASP aware software component and provides an execution environment for the components. It provides a uniform interface between the software component and the rest of the system components. The interfaces fall into the following two categories:

- Management Interface This interface is used to control and configure the software components.
- Service Interface This interface allows software components to expose component specific functionality.

Both management and service interfaces are exposed using RMD APIs. EO provides threads for receiving RMD messages and worker threads to process them. It provides an execution environment, required by a software component, to the component user and component manager.

The OpenClovis product suite provides a process of integrating a third party software component with OpenClovis ASP. This process is known as Componentization. Using Componentization, both management and service interfaces are exposed through RMD.

Componentization provides the following functionality:

- Component re-start
- Service Migration
- Location Transparency
- Easy debugging, statistics gathering, and profiling

Componentization helps in features such as:

- Resource Management
- Component start, stop, and restart
- Debugging

EO communicates to other components using the OpenClovis Communication Core components such as Event Manager (EM), Remote Method Dispatch (RMD), Intelligent Object Communication (IOC), and Name Service.

# **Chapter 2**

# **Service Model**

TBD

# **Chapter 3**

# Service APIs

### 3.1 Type Definitions

### 3.1.1 clEoExecutionObj

```
typedef struct {
textitClEoAppCreateCallbackT clEoCreateCallout;
        CIEoAppDeleteCallbackT cIEoDeleteCallout;
        CIEoAppHealthCheckCallbackT cIEoHealthCheckCallout;
        CIEoAppStateChgCallbackT clEoStateChgCallout;
        CllocCommPortHandleT commObj;
        CIEoIdT eoID;
        CIUint32T eoInitDone;
        CIOsalMutexIdT eoMutex;
        CllocPortT eoPort:
        CIUint32T eoSetDoneCnt;
        CICntHandleT eoTaskIdInfo:
        CIUint32T maxNoClients;
        CICharT name [CL_EO_MAX_NAME_LEN];
        CIUint32T noOfThreads;
        CIEoClientObiT *pClient:
        CICntHandleT pEOPrivDataHdl;
        CIOsalThreadPriorityT pri;
        CIUint32T refCnt;
        CIRmdObjHandleT rmdObj;
        CIEoStateT state;
        CIUint32T threadRunning;
} clEoExecutionObj;
```

The structure, cleoExecutionObj, contains the properties of an EO execution object. These properties constitute the properties of running OS thread or process.

- appType Indicates if the application needs the main thread.
- *clEoCreateCallout* Application function that is called from main() during the initialization process.

- clEoDeleteCallout Application function that is called when the EO is terminated.
- clEoHealthCheckCallout Application function that is called when EO health check is performed by CPM.
- clEoStateChgCallout Application function that is called when the EO is moved into the suspended state.
- · commObj EO communication object.
- · eoID Unique EOID of a blade.
- eoInitDone This indicates if EOInit() has been called.
- eoMutex Mutex that is used to protect the Execution Object.
- · eoPort Requested IOC Communication Port.
- eoSetDoneCnt Used to set state related flag and counter.
- eoTaskIdInfo TaskID information of receive loop. It is used to delete the EO.
- maxNoClients Maximum number of EO clients.
- name[CL\_EO\_MAX\_NAME\_LEN] Execution object name.
- noOfThreads Number of RMD threads spawned.
- pClient Pointer to EO client functions.
- pEOPrivDataHdl Handle of the container of EO specific data.
- pri Priority of the EO threads where RMD is executed.
- rmdObj RMD object associated with the state of the EO.
- threadRunning State of the receive loop thread.

### 3.1.2 CIEoProtoListT

The structure, CleoprotoListT, contains the list of protocols registered with EO. The attributes of this structure are:

- protoID ID of the protocol being registered.
- name Name of the protocol being registered.
- func Receive function of the protocol.

### 3.1.3 CIEoSchedFeedBackT

```
typedef struct {
     clEoPollingTypeT freq;
     CIRcT status;
}CIEoSchedFeedBackT;
```

The structure, ClEoSchedFeedBackT, contains the feedback sent by the software component being polled in response to heartbeat, (is-Alive). The attributes of this structure are:

- freq Indicates the polling type clEoPollingTypeT.
- · status Indicates the health of the EO.

### 3.1.4 CIEoServiceObjT

```
typedef struct clEoServiceObj {
    void (*func)();
    struct clEoServiceObj *pNextServObj;
}ClEoServiceObjT;
```

The structure, ClEoServiceObjT, contains the EO service object. The attributes of this structure are:

- void (\*func)() Pointer to the client service function.
- \*pNextServObj Pointer to the next service on the same service ID.

### 3.1.5 CIEoClientObjT

```
typedef struct {
     ClEoServiceObjT funcs[CL_EO_MAX_NO_FUNC];
     ClEoDataT data;
} ClEoClientObjT:
```

This structure, ClEoClientObjT, contains the pointer to the callback functions to be registered with EO, and the data specific to the client. The attributes of this structure are:

- funcs[CL EO MAX NO FUNC] Pointer to EO functions.
- · data Data that is specific to the client

### 3.1.6 CIEoConfigT

```
ClEoApplicationTypeT appType;
ClEoAppCreateCallbackT clEoCreateCallout;
ClEoAppDeleteCallbackT clEoDeleteCallout;
ClEoAppStateChgCallbackT clEoStateChgCallout;
ClEoAppHealthCheckCallbackT clEoHealthCheckCallout;
ClEoCustomActionT clEoCustomAction;
} ClEoConfigT;
```

The structure, ClEoConfigT, contains the configuration parameters related to the EO and is passed to the clEoCreate function.

- EOname[CL\_EO\_MAX\_NAME\_LEN] EO name.
- pri EO thread priority.
- · noOfThreads Number of RMD threads.
- reglocPort Requested IOC communication port.
- maxNoClients Maximum number of EO clients.
- appType Indicates if the application needs the main thread.
- *clEoCreateCallout* Application function that is called from main() during the initialization process.
- clEoDeleteCallout Application function that is called when EO needs to be terminated.
- clEoStateChgCallout Application function that is called when EO enters suspended state.
- *clEoHealthCheckCallout* Application function that is called when EO health check is performed by Component Manager.
- clEoCustomAction Application function that is called when a Water Mark is reached.

### 3.1.7 CIEoStateT

The values of the enumeration, ClEoStateT, contains the various states of EO.

- CL\_EO\_STATE\_INIT Initial state of the EO.
- CL EO STATE ACTIVE EO is in the active state.
- CL\_EO\_STATE\_STDBY EO is in the standby state.

### 3.1 Type Definitions

- CL\_EO\_STATE\_SUSPEND EO is the suspended state.
- CL\_EO\_STATE\_STOP EO is in the stopped state.
- CL\_EO\_STATE\_KILL EO is in the killed state.
- CL\_EO\_STATE\_RESUME EO is resumed from the standby state.
- CL EO STATE FAILED EO is in the failed state.

### 3.1.8 CIEoApplicationTypeT

```
typedef enum {
textitCL_EO_USE_THREAD_FOR_RECV = CL_TRUE,
textitCL_EO_USE_THREAD_FOR_APP = CL_FALSE
}CIEoApplicationTypeT;
```

- CL\_EO\_USE\_THREAD\_FOR\_RECV If this is selected, the main thread is used to receive the RMD message. The main thread is not blocked in ClEoAppCreateCallbackT and returns immediately.
- CL\_EO\_USE\_THREAD\_FOR\_APP The main thread is allotted to the user-application. The main thread is blocked in ClEoAppCreateCallbackT or used by the application and returns only when the ClEoAppDeleteCallbackT is called.

### 3.1.9 clEoPollingTypeT

```
typedef enum {
textitCL_EO_DONT_POLL = 0,
textitCL_EO_BUSY_POLL = 1,
textitCL_EO_DEFAULT_POLL = 2
}clEoPollingTypeT;
```

The enumeration, clEoPollingTypeT,

- *CL\_EO\_DONT\_POLL* Component Manager stops the heartbeat of an EO if CL\_CPM\_DONT\_POLL is received in response to the heartbeat.
- CL\_EO\_BUSY\_POLL Component Manager increases the heartbeat timeout to the maximum polling timeout. You can configure the maximum timeout while configuring the Component Manager.
- CL\_EO\_DEFAULT\_POLL Component Manager continues with the default heartbeat timeout. You can configure the default timeout while configuring the Component Manager.

### 3.1.10 CIEOServiceInstallOrderT

```
typedef enum {
textitCL_EO_ADD_TO_FRONT = 0,
textitCL_EO_ADD_TO_BACK = 1
}CIEOServiceInstallOrderT;
```

The enumeration, ClEOServiceInstallOrderT, is used while installing a client function

- CL\_EO\_ADD\_TO\_FRONT Adds to the front of the list.
- CL\_EO\_ADD\_TO\_BACK Adds to end of the list. This is used with the clEoServiceValidate() function.

### 3.1.11 CIEoDataT

typedef ClOsalTaskDataT ClEoDataT;

The type of the EO data.

### 3.1.12 CllocPortT

typedef ClUint32T CllocPortT;

The type of the identifier to the IOC communication port.

### 3.1.13 **CIEOIdT**

typedef CIUint16T CIEoIdT;

The type of the EO ID, assigned to an EO as part of the registration with the Component Manager.

### 3.1.14 CIEoPayloadWithReplyCallbackT

```
typedef CIRcT (* CIEoPayloadWithReplyCallbackT) (
CL_IN CIEoDataT data,
CL_IN CIBufferHandleT inMsgHandle,
CL_OUT CIBufferHandleT outMsgHandle);
```

RMD with payload (EO data) and pointer to the reply function. This is the generic function prototype definition for all RMD functions, installed on the EO client object.

- data Data provided while invoking clEoClientInstall().
- inMsgHandle Received message over RMD.
- · outMsgHandle Reply message if any.

### 3.1.15 CIEoPayloadWithReplyCallbackT

Function callout definition required for the clEoWalk () function.

- func Function that needs to be invoked.
- eoArg Arguments that need to be passed.
- inMsgHdl Request packet received including the protocol header.
- outMsgHdl Data portion of the response to a protocol (PDU).

### 3.2 Library Life Cycle APIs

### 3.2.1 clEoLibInitialize

### clEoLibInitialize

### Synopsis:

Initializes the EO library.

### **Header File:**

clEoConfigApi.h

### **Library Files:**

libClEo

### Syntax:

ClRcT clEoLibInitialize();

### Parameters:

None

### **Return values:**

CL\_OK: The function executed successfully.

### **Description:**

This function is used to initialize the EO library. It creates a list that contains the mapping of EO port to EO objects.

### **Related APIs:**

clEoLibFinalize

### 3.2.2 clEoLibFinalize

### clEoLibFinalize

### Synopsis:

Frees the resources of the EO component acquired during initialization.

### **Header File:**

clEoConfigApi.h

### **Library Files:**

libClEo

### Syntax:

```
ClRcT clEoLibFinalize();
normalsize
```

### Parameters:

None

### Return values:

CL\_OK: The function executed successfully.

### **Description:**

Frees the resources of the EO component acquired during initialization of the EO library.

### **Related APIs:**

clEoLibFinalize

### 3.3 Functional APIs

### 3.3.1 clEoWalk

### clEoWalk

### Synopsis:

Performs a walk operation on the EO component.

### **Header File:**

clEoApi.h

### **Library Files:**

CIEo

### Syntax:

### Parameters:

pThis: Handle of the EO.

*func:* Function number of the function to be executed. *pFuncCallout:* Function that performs the execution.

inMsgHdl: Request message received including protocol header.outMsgHdl: (out) Data part of the response to a protocol (PDU).

### **Return values:**

CL\_OK: The function executed successfully.

CL\_ERR\_NULL\_POINTER: pThis contains a NULL pointer.

CL\_EO\_ERR\_FUNC\_NOT\_REGISTERED: This function is not registered.

CL\_EO\_ERR\_EO\_SUSPENDED: EO is in the suspended state.

### **Description:**

This function is used to perform a walk operation through the EO for a given RMD function number. It calls <code>rmdInvoke</code> for every callback function registered with an EO for that RMD function number.

### **Related APIs:**

clEoServiceValidate

### 3.3.2 clEoServiceValidate

### clEoServiceValidate

### Synopsis:

Validates the function registration.

### **Header File:**

clEoApi.h

### **Library Files:**

CIEo

### Syntax:

### Parameters:

pThis: Handle of the EO.
func: Function to be invoked.

### **Return values:**

**CL\_OK:** The function executed successfully.

**CL\_EO\_ERR\_FUNC\_NOT\_REGISTERED:** The function is not registered.

CL\_EO\_ERR\_EO\_SUSPENDED: The EO is in the suspended state.

CL\_ERR\_NULL\_POINTER: pThis contains a NULL pointer.

### **Description:**

This function is used to validate if the function for which the request is made is registered. It can be used to check if the services provided by an EO is available before calling the cleoWalk() function.

### **Related APIs:**

clEoWalk

### 3.3.3 clEoClientInstall

### clEoClientInstall

### Synopsis:

Installs the function table for a client.

### **Header File:**

clEoApi.h

### **Library Files:**

CIEo

### Syntax:

### Parameters:

pThis: Handle of the EO.
clientId: ID of the client.

pFuncs: Pointer to the function table.data: Data specific to the client.

**nFuncs:** Number of functions that are being installed.

### **Return values:**

CL\_OK: The function executed successfully.

CL\_ERR\_NULL\_POINTER: pThis or pFuncs contains a NULL pointer.

CL\_EO\_NO\_MEMORY: Memory allocation failure.

CL\_EO\_CL\_INVALID\_CLIENTID: The client ID is invalid.
CL\_EO\_CL\_INVALID\_SERVICEID: The service ID is invalid.

### **Description:**

This function is called by the client application to install its function table with the EO. The client exports the APIs that it provides to the users using this function. This function can be invoked through RMD calls.

### **Related APIs:**

clEoClientUninstall

### 3.3.4 clEoClientUninstall

### clEoClientUninstall

### Synopsis:

Uninstalls the function table for the client.

### **Header File:**

clEoApi.h

### **Library Files:**

CIEo

### Syntax:

### Parameters:

pThis: Handle of the EO.
clientId: ID of the client.

### **Return values:**

CL\_OK: The function executed successfully.

CL\_ERR\_NULL\_POINTER: pThis contains a NULL pointer.
CL\_EO\_ERR\_INVALID\_CLIENTID: The clientID is invalid.

### **Description:**

This function is called by the client to uninstall its function table with the EO. After this function is successfully executed, the functions previously exported by this client using <code>clEoClientInstall()</code>, cannot be invoked as RMD calls.

### **Related APIs:**

clEoClientInstall

### 3.3.5 clEoClientDataSet

### clEoClientDataSet

### Synopsis:

Stores the data specific to the client.

### **Header File:**

clEoApi.h

### **Library Files:**

CIEo

### Syntax:

### Parameters:

pThis: Handle of the EO.
clientld: ID of the client.

data: Data specific to the client.

### **Return values:**

CL\_OK: The function executed successfully.

CL\_ERR\_NULL\_POINTER: pThis contains a NULL pointer.
CL\_EO\_ERR\_INVALID\_CLIENTID: The client ID is invalid.

### **Description:**

This function is used to store the data specific to the client application.

### **Related APIs:**

clEoClientDataGet

### 3.3.6 clEoClientDataGet

### clEoClientDataGet

### Synopsis:

Returns the client specific data.

### **Header File:**

clEoApi.h

### **Library Files:**

CIEo

### Syntax:

### Parameters:

pThis: Handle of the EO.
clientId: ID of the client.

pData: (out) Data specific to the client.

### **Return values:**

CL\_OK: The function executed successfully.

CL\_ERR\_NULL\_POINTER: pThis or pData contains a NULL pointer.

CL\_EO\_ERR\_INVALID\_CLIENTID: The client ID is invalid.

### **Description:**

This function is used to retrieve the data specific to the client .

### **Related APIs:**

clEoClientDataSet

### 3.3.7 clEoServiceInstall

### clEoServiceInstall

### Synopsis:

Installs a particular client function.

### **Header File:**

clEoApi.h

### **Library Files:**

CIEo

### Syntax:

### Parameters:

pThis: Handle of the EO.

**pFunction:** Function pointer to be installed.

iFuncNum: Function number.

order: Specifies if the service that is to be installed, should be added to the front or the end

of the table.

### Return values:

CL OK: The function executed successfully.

CL ERR NULL POINTER: pThis contains a NULL pointer.

CL\_ERR\_NO\_MEMORY: Memory allocation failure.

CL\_EO\_CL\_INVALID\_SERVICEID: The service ID is invalid.

CL\_ERR\_INVALID\_PARAMETER: A parameter is not set correctly.

### **Description:**

This function is used to install a particular client function, identified by <code>iFuncNum</code> in the EO function table. Using this function, the application can register the service it provides to other components. This function can install the new service either to the front or back of the table by specifying the <code>order</code>.

### **Related APIs:**

clEoServiceUninstall

### 3.3.8 clEoServiceUninstall

### clEoServiceUninstall

### Synopsis:

Uninstalls a particular client function.

### **Header File:**

clEoApi.h

### **Library Files:**

CIEo

### Syntax:

### Parameters:

pThis: Handle of the EO.

**pFunction:** Function pointer to be uninstalled.

iFuncNum: Function number.

### Return values:

CL\_OK: The function executed successfully.

CL\_ERR\_NULL\_POINTER: pThis contains a NULL pointer.

CL\_EO\_FUNC\_NOT\_REGISTERED: Cannot de-register a function that is not registered.

CL EO CL INVALID SERVICEID: The service ID is invalid.

CL ERR INVALID PARAMETER: A parameter is not set correctly.

### **Description:**

This function is used to uninstall a particular client function from the EO function table. After this function is executed, the service, *pFunction*, becomes unavailable to be invoked as an RMD call.

### **Related APIs:**

clEoServiceInstall

### 3.3.9 clEoPrivateDataSet

### clEoPrivateDataSet

### Synopsis:

Stores data in the area specific to the EO.

### **Header File:**

clEoApi.h

### **Library Files:**

CIEo

### Syntax:

### Parameters:

pThis: Handle of the EO.type: User specified key.pData: EO specific data.

### **Return Values:**

**CL\_ERR\_NULL\_POINTER:** pThis or pDdata contains a NULL pointer.

This function also returns the return values of the clCntNodeAdd() function.

### **Description:**

This function is used to store data in a data area specific to EO. For a unique key, there can be only one node.

### **Related APIs:**

clEoPrivateDataGet

### 3.3.10 clEoPrivateDataGet

### clEoPrivateDataGet

### Synopsis:

Retrieves data from the area specific to the EO.

### **Header File:**

clEoApi.h

### **Library Files:**

CIEo

### Syntax:

### Parameters:

pThis: Handle of the EO.
type: User specified key.

data: (out) Data specific to the EO.

### **Return values:**

**CL\_ERR\_NULL\_POINTER:** pThis or data contains a NULL pointer.

This function also returns the result of clCntNodeUserDataGet.

### **Description:**

This function is used to retrieve the data private to the EO.

### **Related APIs:**

clEoMyEolocPortSet

### 3.3.11 clEoMyEolocPortSet

### clEoMyEolocPortSet

### Synopsis:

Sets the EO thread iocPort.

### **Header File:**

clEoApi.h

### **Library Files:**

CĺEo

### Syntax:

### Parameters:

iocPort: Contains the IOC port information that needs to be set.

### **Return values:**

**CL\_OK:** The function executed successfully.

### **Description:**

This function is used to set the EO ID.

### **Related APIs:**

clEoMyEolocPortGet

### 3.3.12 clEoMyEolocPortGet

### clEoMyEolocPortGet

### Synopsis:

Retrieves the IocPort information of the EO.

### **Header File:**

clEoApi.h

### **Library Files:**

CIEo

### Syntax:

### Parameters:

*plocPort:* (out) This is populated with the retrieved IOC port.

### **Return values:**

CL\_OK: The function executed successfully.

CL\_ERR\_INVALID\_STATE: The state of the EO is invalid.

CL\_ERR\_NULL\_POINTER: plocPort contains a NULL pointer.

### **Description:**

This function is used to retrieve the EO IocPort.

### **Related APIs:**

clEoMyEolocPortSet

### 3.3.13 clEoMyEoObjectSet

### clEoMyEoObjectSet

### Synopsis:

Stores the EO Object.

### **Header File:**

clEoApi.h

### **Library Files:**

CIEo

### Syntax:

### Parameters:

**pEoObj:** Contains the ClEoExecutionObjT information that is to be stored.

### **Return values:**

CL\_OK: The function executed successfully.

### **Description:**

This function is used to store the EO Object.

### **Related APIs:**

clEoMyEoObjectGet.

### 3.3.14 clEoMyEoObjectGet

### clEoMyEoObjectGet

### Synopsis:

Retrieves the EO Object.

### **Header File:**

clEoApi.h

### **Library Files:**

CIEo

### Syntax:

### Parameters:

pEOObj: (out) This is populated with the EO object.

### **Return values:**

CL\_OK: The function executed successfully.

CL\_ERR\_INVALID\_STATE: The state of the EO is invalid.

### **Description:**

This function is used to retrieve the EO Object.

### **Related APIs:**

clEoMyEoObjectSet.

# **Chapter 4**

# **Service Management Information Model**

TBD

### CHAPTER 4. SERVICE MANAGEMENT INFORMATION MODEL

# **Chapter 5**

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TBD

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TBD

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