

# cosEventDomain

Copyright © 2001-2013 Ericsson AB. All Rights Reserved. cosEventDomain 1.1.13 September 19, 2013

Copyright © 2001-2013 Ericsson AB. All Rights Reserved.  The contents of this file are subject to the Erlang Public License, Version 1.1, (the "License"); you may not use this file except in compliance with the License. You should have received a copy of the Erlang Public License.
this file except in compliance with the License. You should have received a copy of the Erlang Public License along with this software. If not, it can be retrieved online at http://www.erlang.org/. Software distributed under the License is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License for the specific language governing rights and limitations under the License. Ericsson AB. All Rights Reserved
September 19, 2013

# 1 cosEventDomain User's Guide

The cosEventDomain application is an Erlang implementation of a CORBA Service CosEventDomainAdmin.

# 1.1 The cosEventDomain Application

#### 1.1.1 Content Overview

The cosEventDomain documentation is divided into three sections:

- PART ONE The User's Guide
  Description of the cosEventDomain Application including services and a small tutorial demonstrating the development of a simple service.
- PART TWO Release Notes
   A concise history of cosEventDomain.
- PART THREE The Reference Manual A quick reference guide, including a brief description, to all the functions available in cosEventDomain.

# 1.1.2 Brief Description of the User's Guide

The User's Guide contains the following parts:

- CosEventDomain overview
- CosEventDomain installation and examples

### 1.2 Introduction to cosEventDomain

### 1.2.1 Overview

The cosEventDomain application is a Event Domain Service compliant with the **OMG** Service CosEventDomainAdmin.

### Purpose and Dependencies

CosEventDomain is dependent on Orber, which provides CORBA functionality in an Erlang environment.

#### **Prerequisites**

To fully understand the concepts presented in the documentation, it is recommended that the user is familiar with distributed programming and CORBA.

# 1.3 Quality Of Service and Admin Properties

# 1.3.1 Quality Of Service and Admin Properties

This chapter explains the allowed properties it is possible to set for this application.

# **Quality Of Service**

The cosEventDomain application supports the following QoS settings:

2 | Ericsson AB. All Rights Reserved.: cosEventDomain

QoS	Range	Default
CycleDetection	AuthorizeCycles/ForbidCycles	ForbidCycles
DiamondDetection	AuthorizeDiamonds/ ForbidDiamonds	ForbidDiamonds

Table 3.1: Supported QoS settings

Comments on the table 'Supported QoS Settings':

#### CycleDetection

If a cycle is created, the user *must* be aware of the fact that unless they set timeout on events, events that are not filtered will loop endlessly through the topology.

#### DiamondDetection

A Diamond in this context, means that the same event may reach a point in the graph by more than one route (i.e. transitive). Hence, it is possible that multiple copies are delivered.

### Setting Quality Of Service

Assume we have a Consumer Admin object which we want to change the current Quality of Service. Typical usage:

```
QoS =
    [#'CosNotification_Property'
        {name='CosEventDomainAdmin':'DiamondDetection'(),
        value=any:create(orber_tc:short(),
        'CosEventDomainAdmin':'AuthorizeDiamonds'())},
    #'CosNotification_Property'
    {name='CosEventDomainAdmin':'CycleDetection'(),
        value=any:create(orber_tc:short(),
        'CosEventDomainAdmin':'ForbidCycles'())}],
'CosEventDomainAdmin_EventDomain':set_qos(ED, QoS),
```

If it is not possible to set the requested QoS the UnsupportedQoS exception is raised, which includes a sequence of PropertyError's describing which QoS, possible range and why is not allowed. The error codes are:

- UNSUPPORTED\_PROPERTY QoS not supported for this type of target object.
- UNAVAILABLE\_PROPERTY due to current QoS settings the given property is not allowed.
- UNSUPPORTED\_VALUE property value out of range; valid range is returned.
- UNAVAILABLE\_VALUE due to current QoS settings the given value is not allowed; valid range is returned.
- BAD\_PROPERTY unrecognized property.
- BAD TYPE type of supplied property is incorrect.
- BAD\_VALUE illegal value.

The CosEventDomainAdmin\_EventDomain interface also supports an operation called validate\_qos/2. The purpose of this operations is to check if a QoS setting is supported by the target object and if so, the operation returns additional properties which could be optionally added as well.

#### **Admin Properties**

The OMG specification do not contain any definitions of Admin Properties. Hence, the cosEventDomain application currently does not support any Admin Properties.

### 1.4 Event Domain Service

### 1.4.1 Overview of the CosEventDomain Service

The Event Domain service allows programmers to manage a cluster of information channels.

### **Event Domain Service Components**

There are two components in the OMG CosEventDomainAdmin service architecture:

- EventDomainFactory: a factory for creating EventDomains.
- EventDomain: supplies a tool, which makes it easy to create topologies of interconnected channels (i.e. a directed graph).

### A Tutorial on How to Create a Simple Service

To be able to use the cosEventDomain application, the cosNotification and, possibly, the cosTime application must be installed.

### How to Run Everything

Below is a short transcript on how to run cosEventDomain.

```
%% Start Mnesia and Orber
mnesia:delete schema([node()]),
mnesia:create schema([node()]),
orber:install([node()]),
mnesia:start(),
orber:start(),
% Install and start cosNotification.
cosNotificationApp:install(),
cosNotificationApp:start(),
% Install and start cosEventDomain.
cosEventDomainApp:install(),
cosEventDomainApp:start(),
% Start a CosEventDomainAdmin factory.
AdminFac = cosEventDomainApp:start_factory(),
%% Define the desired QoS settings:
QoS =
   [#'CosNotification Property'
    {name='CosEventDomainAdmin':'DiamondDetection'(),
     value=any:create(orber_tc:short(),
'CosEventDomainAdmin':'AuthorizeDiamonds'())},
    #'CosNotification_Property
    {name='CosEventDomainAdmin':'CycleDetection'(),
     value=any:create(orber_tc:short(),
'CosEventDomainAdmin':'ForbidCycles'())}],
% Create a new EventDomain:
{ED, EDId} = 'CosEventDomainAdmin_EventDomainFactory':
                          create_event_domain(Fac, QoS, []),
%% Now we can add Notification Channels to the Domain. How this
%% is done, see the cosNotification documentation. Let us assume
%% that we have gained access to two Channel Objects; add them to the
%% domain:
```

# 2 Reference Manual

 $The \ {\it cosEventDomain}\ application\ is\ an\ Erlang\ implementation\ of\ a\ CORBA\ Service\ CosEventDomainAdmin.$ 

# cosEventDomainApp

To get access to the record definitions for the structures use: -include\_lib("cosEventDomain/include/\*.hrl").

Erlang module

```
This module contains the functions for starting and stopping the application.
Exports
install() -> Return
Types:
   Return = ok | {'EXCEPTION', E} | {'EXIT', R}
This operation installs the cosEventDomain application.
uninstall() -> Return
Types:
   Return = ok | {'EXCEPTION', E} | {'EXIT', R}
This operation uninstalls the cosEventDomain application.
start() -> Return
Types:
   Return = ok | {error, Reason}
This operation starts the cosEventDomain application.
stop() -> Return
Types:
   Return = ok | {error, Reason}
This operation stops the cosEventDomain application.
start factory() -> Factory
Types:
   Factory = #objref
This operation creates a new instance of a Event Domain Factory using the default settings.
start_factory(Options) -> Factory
Types:
   Options = [Option]
   Option = currently no options defined.
   Factory = #objref
```

This operation creates a new instance of a Event Domain Factory

```
start_factory_link() -> Factory
Types:
    Factory = #objref
```

This operation creates a new instance of a *Event Domain Factory*, which is linked to the invoking process, using the default settings.

```
start_factory_link(Options) -> Factory
Types:
   Options = [Option]
   Option = currently no options defined.
   Factory = #objref
```

This operation creates a new instance of a *Event Domain Factory*, which is linked to the invoking process, with settings defined by the given options. Allowed options are the same as for cosEventDomainApp:start\_factory/1.

```
stop_factory(Factory) -> Reply
Types:
    Factory = #objref
    Reply = ok | {'EXCEPTION', E}
```

This operation stop the target factory.

# CosEventDomainAdmin

Erlang module

To get access to all definitions include necessary hrl files by using: -include\_lib("cosEventDomain/include/\*.hrl").

## **Exports**

```
'CycleDetection'() -> string()
```

This function returns the CycleDetection identifier; required when defining QoS Properties.

```
'AuthorizeCycles'() -> short()
```

This function returns the AuthorizeCycles value; required when defining QoS Properties.

```
'ForbidCycles'() -> short()
```

This function returns the ForbidCycles value; required when defining QoS Properties.

```
'DiamondDetection'() -> string()
```

This function returns the DiamondDetection identifier; required when defining QoS Properties.

```
'AuthorizeDiamonds'() -> short()
```

This function returns the AuthorizeDiamonds value; required when defining QoS Properties.

```
'ForbidDiamonds'() -> short()
```

This function returns the ForbidDiamonds value; required when defining QoS Properties.

# CosEventDomainAdmin\_EventDomainFactory

Erlang module

```
To get access to all definitions include necessary hrl files by using: -include_lib("cosEventDomain/include/*.hrl").
```

# **Exports**

```
create_event_domain(Factory, QoS, Admin) -> Reply
Types:
    Factory = #objref
    QoS = CosNotification::QosProperties
    Admin = CosNotification::AdminProperties
    Reply = {EventDomain, DomainID} | {'EXCEPTION',
    #'CosNotification_UnsupportedQos'{}} | {'EXCEPTION',
    #'CosNotification_UnsupportedAdmin'{}}
    EventDomain = #objref
```

To create a new EventDomain this operation is used. If it is not possible to support the given QoSProperties or AdminProperties an exception is raised, which list the properties not supported. For more information see the cosNotification user's guide.

```
get_all_domains(Factory) -> DomainIDSeq
Types:
    Factory = #objref
    DomainIDSeq = [long()]
This function returns a DomainID sequence of all domains as
```

This function returns a DomainID sequence of all domains associated with the target object.

```
get_event_domain(Factory, DomainID) -> Reply
Types:
    Factory = #objref
    DomainID = long()
    Reply = EventDomain | {'EXCEPTION',
    #'CosEventDomainAdmin_DomainNotFound'{}}
    EventDomain = #objref
```

This operation returns the EventDomain object associated with the given DomainID. If no such binding exists an exception is raised.

# CosEventDomainAdmin\_EventDomain

Erlang module

```
To get access to all definitions include necessary hrl files by using: -include_lib("cosEventDomain/include/*.hrl").
```

This module also exports the functions described in:

- CosNotification\_QoSAdmin
- CosNotification\_AdminPropertiesAdmin

# **Exports**

```
add channel(EventDomain, Channel) -> MemberID
   EventDomain = Channel = #objref
   MemberID = long()
            given
                   channel
                            to
                                the
                                      target
                                             domain.
                                                      The
                                                            channel
                                                                     must
                                                                           be
                                                                                a
CosNotifyChannelAdmin::EventChannel.
get all channels(EventDomain) -> MemberIDSeq
Types:
   EventDomain = #objref
   MemberIDSeq = [long()]
Returns a a sequence of all channels associated with the target object.
get channel(EventDomain, MemberID) -> Reply
Types:
   EventDomain = #objref
   MemberID = long()
   Reply = Channel | {'EXCEPTION',
   Channel = #objref
If the target domain have a CosNotifyChannelAdmin::EventChannel represented by the given id this
```

If the target domain have a CosNotifyChannelAdmin::EventChannel represented by the given id this channel is returned. Otherwise, an exception is raised.

```
remove_channel(EventDomain, MemberID) -> Reply
Types:
    EventDomain = #objref
    MemberID = long()
    Reply = ok | {'EXCEPTION', #'CosNotifyChannelAdmin_ChannelNotFound'{}}
```

If a CosNotifyChannelAdmin::EventChannel with the MemberID exists it will removed and all its Connections terminated. Otherwise an exception is raised.

```
add connection(EventDomain, Connection) -> Reply
Types:
  EventDomain = #objref
  Connection = 'CosEventDomainAdmin_Connection'{supplier_id=MemberID,
  consumer_id=MemberID, ctype=Type, notification_style=Style}
  MemberID = long()
  Type = 'ANY_EVENT' | 'STRUCTURED_EVENT' | 'SEQUENCE_EVENT'
  Style = 'Pull' | 'Push'
  Reply = ConnectionID | {'EXCEPTION', Exc}
  ConnectionID = long()
  Exc = #'CosNotifyChannelAdmin_ChannelNotFound'{} |
  #'CosNotifyChannelAdmin_TypeError'{} |
  #'CosEventDomainAdmin_AlreadyExists'{} |
  #'CosEventDomainAdmin_DiamondCreationForbidden'{diam=RouteSeq} |
  #'CosEventDomainAdmin_CycleCreationForbidden'{cyc=MemberIDSeq}
  RouteSeq = [MemberIDSeq]
  MemberIDSeq = [long()]
```

The Connection parameter must contain valid data to enable the target domain to setup a connection between two channels. The struct members supplier\_id and consumer\_id determines which channel should produce and consume events. which type of events and if the supplier should push or the consumer pull events is determined by ctype and notification\_style respectively.

If the target domain is not able to setup the connection the appropriate exception is raised.

```
get all connections(EventDomain) -> ConnectionIDSeq
Types:
   EventDomain = #objref
   ConnectionIDSeq = [long()]
This operation returns a sequence of all connections within the target domain.
get connection(EventDomain, ConnectionID) -> Reply
Types:
   EventDomain = #objref
   ConnectionID = long()
   Reply = Connection | {'EXCEPTION',
   #'CosEventDomainAdmin_ConnectionNotFound'{}}
   Connection = 'CosEventDomainAdmin_Connection'{supplier_id=MemberID,
   consumer_id=MemberID, ctype=Type, notification_style=Style}
   MemberID = long()
   Type = 'ANY_EVENT' | 'STRUCTURED_EVENT' | 'SEQUENCE_EVENT'
   Style = 'Pull' | 'Push'
                                      given
                   identified
       connection
                            by
                                 the
                                              id
                                                  exists
                                                         within
                                                                 the
                                                                             domain,
                                                                      target
#'CosEventDomainAdmin_Connection'{} which describe the connection is returned. Otherwise, an
exception is raised.
```

```
remove_connection(EventDomain, ConnectionID) -> Reply
Types:
   EventDomain = #objref
   ConnectionID = long()
   Reply = ok | {'EXCEPTION', #'CosEventDomainAdmin_ConnectionNotFound'{}}
If the supplied connection id exists, the connection the id represents is terminated. Otherwise, an exception is raised.
get offer channels(EventDomain, MemberID) -> Reply
Types:
   EventDomain = #objref
   MemberID = long()
   Reply = MemberIDSeq | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
This operation returns a sequence, containing the member id's of all channels within the target domain which will
supply events to the channel identified by the given id. But, if no such id exists in this domain, an exception is raised.
get subscription channels(EventDomain, MemberID) -> Reply
Types:
   EventDomain = #objref
   Reply = MemberIDSeq | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
This operations behaves like get_subscription_channels; the difference is that the id's returned identifies
channels which will consume events supplied by the channel associated with the given id.
destroy(EventDomain) -> ok
Types:
   EventDomain = #objref
Calling this operation will terminate all connections within the target domain. The domain will terminate but all
channels will not be affected.
get cycles(EventDomain) -> RouteSeq
Types:
   EventDomain = #objref
   RouteSeq = [MemberIDSeq]
   MemberIDSeq = [long()]
Returns a list of all cycles within the target domain.
get diamonds(EventDomain) -> DiamondSeg
Types:
   EventDomain = #objref
   DiamondSeq = [RouteSeq]
   RouteSeq = [MemberIDSeq]
   MemberIDSeq = [long()]
```

Returns a list of all diamonds within the target domain

```
set default consumer channel(EventDomain, MemberID) -> Reply
Types:
   EventDomain = #objref
   Reply = MemberID | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
   MemberID = long()
If the given id represents a channel within the target domain, this channel will be used when connection a supplier
client without specifying a certain channel. If no such channel exists an exceptions is raised.
set default supplier channel(EventDomain, MemberID) -> Reply
Types:
   EventDomain = #objref
   Reply = MemberID | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
   MemberID = long()
If the given id represents a channel within the target domain, this channel will be used when connection a consumer
client without specifying a certain channel. If no such channel exists an exceptions is raised.
connect push consumer(EventDomain, Consumer) -> Reply
Types:
   EventDomain = #objref
   Consumer = CosEventComm::PushConsumer
   Reply = CosNotifyChannelAdmin::ProxyPushSupplier | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
If a default Channel have been set, this operation connects the given PushConsumer to it. Otherwise, the
#'CosNotifyChannelAdmin_ChannelNotFound'{} exception is raised.
connect pull consumer(EventDomain, Consumer) -> Reply
Types:
   EventDomain = #objref
   Consumer = CosEventComm::PullConsumer
   Reply = CosNotifyChannelAdmin::ProxyPullSupplier | {'EXCEPTION',
   #'CosNotifyChannelAdmin ChannelNotFound'{}}
If a default Channel have been set, this operation connects the given PullConsumer to it. Otherwise, the
#'CosNotifyChannelAdmin_ChannelNotFound'{} exception is raised.
connect push supplier(EventDomain, Supplier) -> Reply
Types:
   EventDomain = #objref
   Supplier = CosEventComm::PushSupplier
   Reply = CosNotifyChannelAdmin::ProxyPushConsumer | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
If a default Channel have been set, this operation connects the given PushSupplier to it. Otherwise, the
#'CosNotifyChannelAdmin_ChannelNotFound'{} exception is raised.
```

```
connect pull supplier(EventDomain, Supplier) -> Reply
Types:
   EventDomain = #objref
   Supplier = CosEventComm::PullSupplier
   Reply = CosNotifyChannelAdmin::ProxyPushConsumer | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
If a default Channel have been set, this operation connects the given PullSupplier to it. Otherwise, the
#'CosNotifyChannelAdmin_ChannelNotFound'{} exception is raised.
connect structured push consumer(EventDomain, Consumer) -> Reply
Types:
   EventDomain = #objref
   Consumer = CosNotifyComm::StructuredPushConsumer
   Reply = CosNotifyChannelAdmin::StructuredProxyPushSupplier | {'EXCEPTION',
   #'CosNotifyChannelAdmin ChannelNotFound'{}}
If a default Channel have been set, this operation connects the given StructuredPushConsumer to it. Otherwise, the
#'CosNotifyChannelAdmin_ChannelNotFound'{} exception is raised.
connect structured pull consumer(EventDomain, Consumer) -> Reply
Types:
   EventDomain = #objref
   Consumer = CosNotifyComm::StructuredPullConsumer
   Reply = CosNotifyChannelAdmin::StructuredProxyPullSupplier | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
If a default Channel have been set, this operation connects the given StructuredPullConsumer to it. Otherwise, the
#'CosNotifyChannelAdmin_ChannelNotFound'{} exception is raised.
connect structured push supplier(EventDomain, Supplier) -> Reply
Types:
   EventDomain = #objref
   Supplier = CosNotifyComm::StructuredPushSupplier
   Reply = CosNotifyChannelAdmin::StructuredProxyPushConsumer | {'EXCEPTION',
   #'CosNotifyChannelAdmin ChannelNotFound'{}}
If a default Channel have been set, this operation connects the given StructuredPushSupplier to it. Otherwise, the
#'CosNotifyChannelAdmin_ChannelNotFound'{} exception is raised.
connect structured pull supplier(EventDomain, Supplier) -> Reply
Types:
   EventDomain = #objref
   Supplier = CosNotifyComm::StructuredPullSupplier
   Reply = CosNotifyChannelAdmin::StructuredProxyPullConsume | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
If a default Channel have been set, this operation connects the given StructuredPullSupplier to it. Otherwise, the
```

#'CosNotifyChannelAdmin\_ChannelNotFound'{} exception is raised.

```
connect sequence push consumer(EventDomain, Consumer) -> Reply
Types:
   EventDomain = #objref
   Consumer = CosNotifyComm::SequencePushConsumer
   Reply = CosNotifyChannelAdmin::SequenceProxyPushSupplier | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
If a default Channel have been set, this operation connects the given SequencePushConsumer to it. Otherwise, the
#'CosNotifyChannelAdmin_ChannelNotFound'{} exception is raised.
connect sequence pull consumer(EventDomain, Consumer) -> Reply
Types:
   EventDomain = #objref
   Consumer = CosNotifyComm::SequencePullConsumer
   Reply = CosNotifyChannelAdmin::SequenceProxyPullSupplier | {'EXCEPTION',
   #'CosNotifyChannelAdmin ChannelNotFound'{}}
If a default Channel have been set, this operation connects the given SequencePullConsumer to it. Otherwise, the
#'CosNotifyChannelAdmin_ChannelNotFound'{} exception is raised.
connect sequence push supplier(EventDomain, Supplier) -> Reply
Types:
   EventDomain = #objref
   Supplier = CosNotifyComm::SequencePushSupplier
   Reply = CosNotifyChannelAdmin::SequenceProxyPushConsumer | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
If a default Channel have been set, this operation connects the given SequencePushSupplier to it. Otherwise, the
#'CosNotifyChannelAdmin_ChannelNotFound'{} exception is raised.
connect sequence pull supplier(EventDomain, Supplier) -> Reply
Types:
   EventDomain = #objref
   Supplier = CosNotifyComm::SequencePullSupplier
   Reply = CosNotifyChannelAdmin::SequenceProxyPullConsumer | {'EXCEPTION',
   #'CosNotifyChannelAdmin ChannelNotFound'{}}
If a default Channel have been set, this operation connects the given SequencePullSupplier to it. Otherwise, the
#'CosNotifyChannelAdmin_ChannelNotFound'{} exception is raised.
connect push consumer with id(EventDomain, Consumer, MemberID) -> Reply
Types:
   EventDomain = #objref
   Consumer = CosEventComm::PushConsumer
   MemberID = long()
   Reply = CosNotifyChannelAdmin::ProxyPushSupplier | {'EXCEPTION',
   #'CosNotifyChannelAdmin ChannelNotFound'{}}
```

If a Channel associated with the given MemberID exists within the target Domain, this operation connects the given PushConsumer to it. Otherwise, the #'CosNotifyChannelAdmin\_ChannelNotFound'{} exception is raised.

```
connect_pull_consumer_with_id(EventDomain, Consumer, MemberID) -> Reply
Types:
   EventDomain = #objref
   Consumer = CosEventComm::PullConsumer
   MemberID = long()
   Reply = CosNotifyChannelAdmin::ProxyPullSupplier | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
If a Channel associated with the given MemberID exists within the target Domain, this operation connects the given
PullConsumer to it. Otherwise, the #'CosNotifyChannelAdmin ChannelNotFound' {} exception is raised.
connect push supplier with id(EventDomain, Supplier, MemberID) -> Reply
Types:
   EventDomain = #objref
   Supplier = CosEventComm::PushSupplier
   MemberID = long()
   Reply = CosNotifyChannelAdmin::ProxyPushConsumer | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
If a Channel associated with the given MemberID exists within the target Domain, this operation connects the given
PushSupplier to it. Otherwise, the #'CosNotifyChannelAdmin_ChannelNotFound'{} exception is raised.
connect_pull_supplier_with_id(EventDomain, Supplier, MemberID) -> Reply
Types:
   EventDomain = #objref
   Supplier = CosEventComm::PullSupplier
   MemberID = long()
   Reply = CosNotifyChannelAdmin::ProxyPushConsumer | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
If a Channel associated with the given MemberID exists within the target Domain, this operation connects the given
PullSupplier to it. Otherwise, the #'CosNotifyChannelAdmin_ChannelNotFound'{} exception is raised.
connect structured push consumer with id(EventDomain, Consumer, MemberID) ->
Reply
Types:
   EventDomain = #objref
   Consumer = CosNotifyComm::StructuredPushConsumer
   MemberID = long()
   Reply = CosNotifyChannelAdmin::StructuredProxyPushSupplier | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
```

If a Channel associated with the given MemberID exists within the target Domain, this operation connects the given StructuredPushConsumer to it. Otherwise, the #'CosNotifyChannelAdmin\_ChannelNotFound'{} exception is raised.

```
connect structured pull consumer with id(EventDomain, Consumer, MemberID) ->
Reply
Types:
   EventDomain = #objref
   Consumer = CosNotifyComm::StructuredPullConsumer
   MemberID = long()
   Reply = CosNotifyChannelAdmin::StructuredProxyPullSupplier | {'EXCEPTION',
   #'CosNotifyChannelAdmin ChannelNotFound'{}}
If a Channel associated with the given MemberID exists within the target Domain, this operation connects the
given StructuredPullConsumer to it. Otherwise, the #'CosNotifyChannelAdmin_ChannelNotFound'{}
exception is raised.
connect structured push supplier with id(EventDomain, Supplier, MemberID) ->
Reply
Types:
   EventDomain = #objref
   Supplier = CosNotifyComm::StructuredPushSupplier
   MemberID = long()
   Reply = CosNotifyChannelAdmin::StructuredProxyPushConsumer | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
If a Channel associated with the given MemberID exists within the target Domain, this operation connects the given
StructuredPushSupplier to it. Otherwise, the #'CosNotifyChannelAdmin_ChannelNotFound'{} exception
is raised.
connect structured pull supplier with id(EventDomain, Supplier, MemberID) ->
Reply
Types:
   EventDomain = #objref
   Supplier = CosNotifyComm::StructuredPullSupplier
   MemberID = long()
   Reply = CosNotifyChannelAdmin::StructuredProxyPullConsumer | {'EXCEPTION',
   #'CosNotifyChannelAdmin ChannelNotFound'{}}
If a Channel associated with the given MemberID exists within the target Domain, this operation connects the given
StructuredPullSupplier to it. Otherwise, the #'CosNotifyChannelAdmin_ChannelNotFound' { } exception
is raised.
connect sequence push consumer with id(EventDomain, Consumer, MemberID) ->
Reply
Types:
   EventDomain = #objref
   Consumer = CosNotifyComm::SequencePushConsumer
   MemberID = long()
   Reply = CosNotifyChannelAdmin::SequenceProxyPushSupplier | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
```

If a Channel associated with the given MemberID exists within the target Domain, this operation connects the given SequencePushConsumer to it. Otherwise, the #'CosNotifyChannelAdmin\_ChannelNotFound'{} exception is raised.

```
connect_sequence_pull_consumer_with_id(EventDomain, Consumer, MemberID) ->
Reply
Types:
   EventDomain = #objref
   Consumer = CosNotifyComm::SequencePullConsumer
   MemberID = long()
   Reply = CosNotifyChannelAdmin::SequenceProxyPullSupplier | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
If a Channel associated with the given MemberID exists within the target Domain, this operation connects the
given SequencePullConsumer to it. Otherwise, the #'CosNotifyChannelAdmin_ChannelNotFound'{}
exception is raised.
connect sequence push supplier with id(EventDomain, Supplier, MemberID) ->
Reply
Types:
   EventDomain = #objref
   Supplier = CosNotifyComm::SequencePushSupplier
   MemberID = long()
   Reply = CosNotifyChannelAdmin::SequenceProxyPushConsumer | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
If a Channel associated with the given MemberID exists within the target Domain, this operation connects the given
SequencePushSupplier to it. Otherwise, the #'CosNotifyChannelAdmin_ChannelNotFound'{} exception
is raised.
connect sequence pull supplier with id(EventDomain, Supplier, MemberID) ->
Reply
Types:
   EventDomain = #objref
   Supplier = CosNotifyComm::SequencePullSupplier
   MemberID = long()
   Reply = CosNotifyChannelAdmin::SequenceProxyPullConsumer | {'EXCEPTION',
   #'CosNotifyChannelAdmin_ChannelNotFound'{}}
```

If a Channel associated with the given MemberID exists within the target Domain, this operation connects the given SequencePullSupplier to it. Otherwise, the #'CosNotifyChannelAdmin\_ChannelNotFound' {} exception is raised.