Conversational RPC Conversational RPC

Conversational RPC

RPC conversations are supported when communicating with an RPC server.

It is assumed that you are familiar with the concepts of conversational RPC and non-conversational RPC. Open and closing conversations are provided through the *Generic RPC Services Module*.

This chapter covers the following topics:

- Using Conversational RPC
- Terminating a Conversational RPC Communication
- Closing and Committing a Conversational RPC Communication

Using Conversational RPC

To use conversational RPC

1. Open a conversation with the function Open Conversation OC (see COM_FUNCTION under *RPC Communication Area*) from Generic RPC Services module:

With the Call Interface:

With the EXEC CICS LINK Interface:

```
ERXCOM.COM_FUNCTION = 'OC'; /* Open Conversation */
ERXCOM. COM_SERVER_LIBRARY = 'MYLIB';
CICS_LEN = STORAGE(ERXCOM);
CICS_RESP1 = DFHRESP(NORMAL);
CICS_RESP2 = DFHRESP(NORMAL);
/* called CICS program name depends on PP switch ERXFCTPRE */
EXEC CICS LINK PROGRAM ('xxxxSRVI') /* see (1) below */
                       (CICS_RESP1)
              RESP
              RESP2 (CICS_RESP2)
              COMMAREA (ERXCOM)
              LENGTH (CICS_LEN);
IF SUBSTR(ERXCOM.COM_ERROR,8) ^= ERX_S_SUCCESS then
DO;
/* error handling */
       /* ... */
END;
/* begin of application logic including calls to interface objects */
```

- (1) The prefix of the program name (xxxSRVI) can be customized, see *PL/I Preprocessor Settings*. The default is PLISRVI.
 - The Open Conversation requires a library to be set in the RPC communication area field COM_SERVER_LIBRARY. See *The RPC Communication Area (Reference)*.
 - After a successful Open Conversation, the broker's conversation ID is stored within the RPC communication area field COM_SERVER_CONVID. See *The RPC Communication Area* (*Reference*). The conversation ID
 - is used during calls to interface objects and also needed for closing the conversation.
 - is cleared if the end of conversation is forced by the broker or the RPC server. This happens if an error with message class 0003 occurs. See Message Class 0003 EntireX ACI Conversation Ended.
 - is not cleared and remains for any other error returned to be able to continue the conversation.
- 2. Issue your RPC requests as is done within non-conversational mode, using the generated interface objects.
 - Different interface objects can participate in the same RPC conversation.
 - RPC conversations and simple non-conversational RPC requests can *not* be handled in parallel using the same RPC communication area without saving and restoring some fields.
 - If you need to handle RPC conversations in parallel, or simple non-conversational RPC requests within an ongoing RPC conversation, use multiple RPC communication areas or save and restore the following fields:
 - O COM_BROKER_ID (if another broker)
 - O COM SERVER CLASS (if another class)
 - O COM_SERVER_NAME (if another name)
 - O COM_SERVER (if another service)
 - O COM_SERVER_LIBRARY (if another library)
 - O COM_SERVER_CONVID
 - o and possibly others, for example user ID, token and password if needed

Terminating a Conversational RPC Communication

Terminate an RPC conversation unsuccessfully with the function Close Conversation CB (see COM_FUNCTION under *RPC Communication Area*) from Generic RPC Services module:

With the Call Interface:

(1) The prefix of the program name (xxxSRVI) can be customized, see *PL/I Preprocessor Settings*. The default is PLISRVI.

With the EXEC CICS LINK Interface:

See *Using Conversational RPC* above.

Closing and Committing a Conversational RPC Communication

Close the RPC conversation successfully with the function Close Conversation and Commit CE (see COM_FUNCTION under *RPC Communication Area*) from Generic RPC Services module:

With the Call Interface:

(1) The prefix of the program name (xxxSRVI) can be customized, see *PL/I Preprocessor Settings*. The default is PLISRVI.

With the EXEC CICS LINK Interface:

See Open Conversation above.