

Cleo APPC/CPI-C

Application Program Interface for UNIX-to-Host Connectivity

Cleo® Communications' industry-standard Application Program Interfaces allow faster, friendlier and more transparent host access for distributed Unix systems. Users can quickly and easily write simple front-ends for 3270 applications.



Peer-to-Peer Links Over LU 6.2

Cleo APPC/CPI-C enables a transaction program running on an SNA-linked Unix system to directly communicate with another transaction program on the same or a different SNA-linked system, including the host. These programs can work together, exchanging the data needed to accomplish a single task.

Common Cleo APPC/CPI-C applications include querying remote databases, copying remote files, and sending and receiving electronic mail.

Part of a Complete Connectivity Solution

Cleo APPC/CPI-C is an optional add-on to its Cleo SNA/SDLC and SNA Token Ring connectivity packages. Cleo APPC and CPI-C are bundled together. Users can choose to utilize either program or both.

Cleo comes with a developer's kit, including documentation and sample programs. Also included is one Cleo LUA/LU 0 runtime license for each remote Unix system connected. Cleo's technical support specialists can provide custom Cleo APPC/CPI-C programming at reasonable fees.

System Requirements

Cleo APPC/CPI-C works with Intel-based computers running SCO UnixWare or OpenServer. Cleo APPC is also offered for IBM RS/6000 AIX. As a prerequisite, users must install one of the Cleo Gateway connectivity packages, in addition to the appropriate communications hardware, in each Unix system.

Full APPC/CPI-C Capabilities

- Operation as PU 2.0 or PU 2.1 node, with latter configurable as primary, secondary or negotiable SDLC link
- Program-to-program/peer-to-peer communications between connected nodes without need for central control point (PU 2.1 only)
- Parallel sessions (PU 2.1 only)
- Multiple concurrent conversations for single transaction process (TP)
- Support of local TPs for development on single system
- Support for Common Serve Verbs (CSV), compatible with IBM's OS/2 Extended Edition 1.1
- Session (LU-to-LU) and conversation security

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PRODUCT SPECIFICATIONS

Cleo APCC/CPI-C

CPI-C CALLS SUPPORTED

Starting a Conversation

INITIALIZE_CONVERSATION
SET_CONVERSATION_TYPE
SET_MODE_NAME
SET_TP_NAME
SET_RETURN_CONTROL
SET_SYNC_LEVEL
SET_CONVERSATION_SECURITY_TYPE
SET_CONVERSATION_SECURITY_USER_ID
SET_CONVERSATION_SECURITY_PASS
WORD
ALLOCATE
ACCEPT_CONVERSATION

Sending Data

SET_SEND_TYPE
SEND_DATA
FLUSH
CONFIRM
REQUEST_TO_SEND

Receiving Data

SET_PREPARE_TO_RECEIVE_TYPE
PREPARE_TO_RECEIVE
SET_RECEIVE_TYPE
RECEIVE
SET_FILL

Confirmed Receipt of Data and Reporting Errors

CONFIRMED
SET_ERROR_DIRECTION
SET_LOG_DATA
SEND_ERROR

Getting Information

EXTRACT_CONVERSATION_SECURITY_TYPE
EXTRACT_CONVERSATION_SECURITY_USER_ID
EXTRACT_CONVERSATION_STATE
EXTRACT_CONVERSATION_TYPE
EXTRACT_MODE_NAME
EXTRACT_MODE_NAME
EXTRACT_PARTNER_LU_NAME
EXTRACT_SYNC_LEVEL
TEST_REQUEST_TO_SEND_RECEIVED

Ending a Conversation

SET_DEALLOCATE_TYPE
DEALLOCATE
TERMINATE_APPLICATION

Administering Side Information

SET_CPIC_SIDE_INFORMATION
EXTRACT_CPIC_SIDE_INFORMATION
DELETE_CPIC_SIDE_INFORMATION

APPC VERBS SUPPORTED

Control Verbs

RECEIVE_ALLOCATE
TP_STARTED
TP_ENDED

Conversation-Independent Verb

GET_TYPE

Mapped Conversation Verbs

MC_ALLOCATE
MC_CONFIRM
MC-CONFIRMED
MC_DEALLOCATE
MC_FLUSH
MC_GET_ATTRIBUTES
MC_PREPARE_TO_RECEIVE
MC_RECEIVE_AND_POST
MC_RECEIVE_AND_WAIT
MC_RECEIVE_IMMEDIATE
MC_REQUEST_TO_SEND
MC_SEND_DATA
MC_SEND_ERROR
MC_TEST_RTS

Basic Conversation Verbs

ALLOCATE
CONFIRM
CONFIRMED
DEALLOCATE
FLUSH
GET_ATTRIBUTES
PREPARE_TO_RECEIVE
RECEIVE_AND_POST
RECEIVE_AND_WAIT
RECEIVE_IMMEDIATE
REQUEST_TO_SEND
SEND_DATA
SEND_ERROR
TEST_RTS

APPC OPTIONS SETS

- Conversations between transaction process (TPs) at same node
- Immediate or delayed allocation of session
- Locally-known LU names
- Single-session reinitiation



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