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Definitions of Managed Objects for APPC using SMIv2

Status of this Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

Table of Contents

1.	Introduction	1
2.	The SNMP Network Management Framework	
3.	Overview	
3.1	APPC MIB structure	4
4.	Definitions	10
5.	Acknowledgments	123
6.	References	123
7.	Security Considerations	123
8.	Authors' Addresses	124

1. Introduction

This memo defines a portion of the Management Information Base (MIB) for use with network management protocols in the Internet community. In particular, it defines objects for managing the configuration, monitoring and controlling of network devices with APPC (Advanced Program-to-Program Communications) capabilities. This memo identifies managed objects for the SNA LU6.2 protocols.

2. The SNMP Network Management Framework

The SNMP Network Management Framework consists of several components. For the purpose of this specification, the applicable components of the Framework are the SMI and related documents [2, 3, 4], which define the mechanisms used for describing and naming objects for the

Allen, et. al. Standards Track [Page 1]

purpose of management.

The Framework permits new objects to be defined for the purpose of experimentation and evaluation.

3. Overview

This document identifies the proposed set of objects for managing the configuration, monitoring and controlling devices with APPC capabilities. APPC is the aspect of SNA which supports peer-to-peer communication, and provides the interface for applications to communicate. In this document, we will describe LU6.2 protocolspecific managed objects.

This document describes both dependent and independent LU 6.2 protocols.

A dependent LU requires assistance from an SSCP in order to activate an LU 6.2 session. An independent LU is able to activate an LU 6.2 session without assistance from the SSCP. If the agent supports dependent LU 6.2 only, the SNA NAU MIB, RFC 1666 [7] is used instead to represent those objects.

Local LUs and partner LUs connect with each other using sessions. Multiple different sessions can be established between LUs with characteristics defined by Modes. Session limits within a defined Mode are negotiated between the local and partner LUs using a protocol called CNOS (Change Number of Sessions).

Transaction Programs (TPs) are applications that use sessions to communicate with each other. Multiple TPs can use the same session, but not at the same time. A single usage of a session is called a conversation. While a session can stay active for a long time, a conversation can come up and down based on usage by the TPs.

Common Programming Interface - Communications (CPI-C) is a standard API (Application Programming Interface) for APPC and OSI TP that is used by TPs for accessing conversations. Although, many of the CPI-C objects in this MIB are relevant to both APPC and OSI TP, the intention is for managing APPC products only.

SNA names such as LU names, CP names, mode names, and COS names can be padded with space characters in SNA formats. These space characters are insignificant. For example, in a BIND RU a mode name of "#INTER" with a length of 6 is identical to a mode name of "#INTER" with a length of 8. However, in this MIB, insignificant space characters are not included by the agent. Using the mode name from the previous example, an agent would return a length of 6 and the

string "#INTER" with no space characters for appcModeAdminModeName, regardless of how it appears in the BIND RU or in internal storage. The lone exception is the all blank mode name, for which the agent returns a length of 8 and the string " " (8 space characterss).

When an SNA name is functioning as a table index, an agent shall treat trailing space characters as significant. If a Management Station requests the objects from a row with index "#INTER ", the agent does not match this to the row with index "#INTER". Since an agent has no insignificant space characters in any of its table indices, the only reason for a Management Station to include them would be to start GetNext processing at a chosen point in a table. For example, a GetNext request with index "M " would start retrieval from a table at the first row with an 8-character index beginning with M or a letter after M.

The SNA/APPC terms and overall architecture are documented in [1], [5], and [6].

Highlights of the management functions supported by the APPC MIB module include the following:

- Activating and deactivating statistics keeping and counting.
- o Activating and deactivating tracing.
- o Issuing CNOS processing verbs/commands for INITIALIZE_SESSION_LIMIT, CHANGE_SESSION_LIMIT and RESET SESSION LIMIT.
- o Monitoring of parameters related to local LU, partner LU, modes, TPs and CPI-C side information.
- o Deactivating sessions.
- o Monitoring of LU6.2-specific session operational parameters and statistics, historical information about abnormally terminated sessions, and information about APPC sessions that are transported by APPN HPR.
- o Monitoring of conversation operational parameters, and historical information about abnormally terminated sessions.

This MIB module does not support:

- o Modifying APPC defaults.
- o Creating and deleting partner LUs, modes, TPs, and CPI-C side information tables.
- Modifying parameters related to local LU, partner LU, modes, TPs, and CPI-C side information.
- o Activating or deactivating local LUs.
- o Activating or deactivating partner LUs.
- o Activating or deactivating conversations.
- o Activating or deactivating Transaction Programs.
- o Activating sessions.
- o Traps

3.1. APPC MIB Structure

The APPC MIB module contains six groups of objects:

- o appcGlobal objects related to global defaults and controls.

 In addition, CNOS processing objects are also part of this group.
- o appcLu objects related to LU6.2-specific local and partner LU, mode definition, monitoring and control.
- o appcTp objects related to transaction program definition, monitoring and control.
- o appcSession objects related to LU6.2-specific session monitoring.
- o appcConversation objects related to conversation monitoring.
- o appcCPIC objects related to related CPI-C side information.

These groups are described below in more detail.

The objects related to LU6.2 are generally organized into two types of tables: the Admin and Oper tables.

The "Admin" table contains read-only objects which contain default or expected configuration values. This MIB does not create or modify configuration values. The "Oper" table contains objects which provide current operational values, such as state values or negotiated parameters, for dynamic or configured objects. Dynamic objects are created by the APPC system using one of the templates provided in the "Admin" table. Configured objects usually have a one-to-one relationship between "Admin" and "Oper" entries. However, some "Admin" values may have changed since the object became operational, such that the "Oper" values may no longer be based on the "Admin" values. The "Admin" entry could even be deleted. For example, some implementations may allow a mode definition (appcModeAdminEntry) to be deleted even while an active session was using this mode (appcModeOperEntry still exists). Where appropriate, the "Oper" table may include initial starting values for objects that can be reconfigured while operational. How the "Admin" values are changed or deleted is outside the scope of this MIB.

3.1.1. appcGlobal group

The appcGlobal group consists of the following tables and objects:

1) appcCntrlAdminGroup

This group of objects controls whether certain statistics and counters (e.g., session counters and RSCV collection) should be maintained by the Agent. In addition, the ability to activate and deactivate tracing is also supported through objects in this group. These objects are for Agent implementations that wish to provide this level of operational control and are optional.

The objects in this group represent the desired state, with the actual operational values in appcCntlOperGroup.

These objects can be generated initially, after startup of SNA service, by the Agent which uses information from the Node configuration file. Subsequent modifications of object values is possible by a Management station. The modifications to these objects can be saved in the Node configuration file for the next startup (i.e., restart or next initialization) of SNA service, but the mechanism for this function is not defined in this document.

2) appcCntrlOperGroup

This group of objects monitors whether certain statistics and counters (e.g., session counters and RSCV collection) are maintained by an Agent. In addition, the ability to monitor tracing activity is also supported through objects in this group.

Allen, et. al. Standards Track [Page 5]

This table represents the actual operational state. These states can be modified via objects in the appcCntrlAdminGroup.

3) appcGlobalObjects

These objects describe global information such as APPC system start time, the control point name, and default LU 6.2 configuration values. The type of default configuration information includes mode name, LU, and maximum logical record size.

4) appcCnosControl

These objects allows for issuing of CNOS commands relative to a local and partner LU pair and a Mode. They support the following CNOS commands: INITIALIZE_SESSION_LIMIT, CHANGE_SESSION_LIMIT and RESET SESSION LIMIT.

The objects in this group can be modified by a Management Station.

This group consists of objects that are relevant to the CNOS commands parameters, which a Management Station needs to set. After setting the parameters of a CNOS command, the Management Station will set the control object (appcCnosCommand) to request the Agent to issue the appropriate CNOS command.

3.1.2. appcLu group

The appcLu group consists of the following tables:

1) appcLluAdminTable

This table contains objects which describe specific LU6.2 local LU configuration information. The type of information includes the maximum number of sessions supported and compression parameters.

2) appcLluOperTable

This table contains objects which describe specific LU6.2 local LU operational information. The type of information includes the maximum number of sessions supported, the number of sessions currently active, and compression parameters.

3) appcLuPairAdminTable

This table contains objects which describe local LU and partner LU configuration information. The type of information includes security information and whether parallel sessions are supported.

For those implementations that have partner LU definitions associated with each local LU, multiple entries with the same appcLuPairAdminParLuName could exist with different appcLuPairAdminLocLuName. For those implementations in which partner LU definitions apply to all local LUs, the appcLuPairAdminLocLuName is set to '*ALL'.

4) appcLuPairOperTable

This table contains objects which describe partner/local LU pair runtime operational information. The type of information includes security information and whether parallel sessions are supported.

Although the Admin (appcLuPairAdminTable) table entries could be global to all local LUs in a Node, an entry in this Oper table is always associated with one local LU.

A row in this table is created as soon as there is an active session between the local and partner LU. Two entries are present when both LUs in a pair are local.

5) appcModeAdminTable

This table contains objects which describe Mode configuration information. The type of information includes the mode name and maximum session limit.

For those implementations that have Mode definitions associated with each local and partner LU pair, multiple entries with the same appcModeAdminModeName could exist with different appcModeAdminLocLuName and appcModeAdminParLuName. For those implementations in which Mode definitions apply to all local and/or all partner LUs, the appcModeAdminLocLuName and/or appcModeAdminParLuName are set to '*ALL'.

6) appcModeOperTable

This table contains objects which describe Mode run-time operational information for each local/partner LU pair. The type of information includes the mode name and maximum session limit.

Although the Admin table entries could be global to all local and partner LUs in a Node, the Oper table entries are always associated with one local and partner LU pair.

A row in this table is created as soon as there is an active session between local and partner LU for this Mode. Two entries are present when both LUs in a pair are local.

3.1.3. appcTp group

The appcTp group consists of the following table:

1) appcTpAdminTable

This table contains objects which describe transaction program (TP) configuration information. The type of information includes the TP name and TP operation, indicating how the TP will be started.

For those implementations that have TP definitions associated with each local LU, multiple entries with the same appcTpAdminTpName could exist with different appcTpAdminLocLuName. For those implementations in which TP definition applies to all local LUs, it will have appcTpAdminLocLuName set to '*ALL'.

There is no appcTpOperTable. Run-time information about TP tends to be product-specific (e.g., process Id), and much of the information can be derived from the conversation tables.

3.1.4. appcSession group

The appcSession group consists of the following tables:

1) appcActSessTable

This table contains objects which describe LU6.2 session information. The type of information includes the PCID and the pacing counts.

2) appcSessStatsTable

This table contains statistical information about LU 6.2 sessions. The type of information includes counters of bytes and RUs sent and received.

3) appcHistSessTable

This table contains historical information about APPC sessions that have terminated abnormally. The type of information includes the unbind type and sense data.

4) appcSessRtpTable

This table contains information about LU 6.2 sesions that are being transported by High Performance Routing. The type of information includes the NCEID and TCID.

3.1.5. appcConversation group

The appcConversation group consists of the following tables:

1) appcActiveConvTable

This table contains objects which describe active conversation information. The type of information includes the state and type. An entry is created by an Agent when the conversation is started, and is removed when the conversation ends.

2) appcHistConvTable

This table contains objects which describe historical conversation information about abnormally terminated conversations. The number of entries and how long they are kept depends on the Agent implementation. The type of information inclues the sense data and log data.

3.1.6. appcCPIC group

The appcCPIC group consists of the following tables:

appcCpicAdminTable

This table contains objects which describe CPI-C side information. The type of information includes the symbolic destination name and partner LU name.

For those implementations that have CPI-C definition associated with each local LU, multiple entries with the same appcCpicAdminSymbDestName could exist with different appcCpicAdminLocLuName. For those implementations in which CPI-C definition applies to all local LUs, it will have appcCpicAdminLocLuName set to '*ALL'.

2) appcCpicOperTable

This table contains objects which describe CPI-C run-time operational information. The type of information includes the symbolic destination name and partner LU name.

4. Definitions

APPC-MIB DEFINITIONS ::= BEGIN

IMPORTS

DisplayString, InstancePointer, TEXTUAL-CONVENTION, DateAndTime FROM SNMPv2-TC

snanauMIB

FROM SNA-NAU-MIB

MODULE-COMPLIANCE, OBJECT-GROUP
 FROM SNMPv2-CONF;

appcMIB MODULE-IDENTITY

LAST-UPDATED "9512150000Z"

ORGANIZATION "IETF SNA NAU MIB Working Group"

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      DESCRIPTION
           "This is the MIB module for objects used to manage network
           devices with APPC capabilities."
::= { snanauMIB 3 }
 appcObjects
appcGlobal
appcLu
appcT IDENTIFIER ::= { appcObjects 1 }
appcLu
appcT IDENTIFIER ::= { appcObjects 2 }
appcTp
    OBJECT IDENTIFIER ::= { appcObjects 3 }
appcSession
OBJECT IDENTIFIER ::= { appcObjects 4 }
                     OBJECT IDENTIFIER ::= { appcMIB 1 }
appcObjects
  appcConversation OBJECT IDENTIFIER ::= { appcObjects 5 }
               OBJECT IDENTIFIER ::= { appcObjects 6 }
  appcCPIC
__ **********************************
-- Objects in this MIB are used to model an SNA device that supports
-- APPC LUs.
-- Following is the overall organization of the MIB.
-- 1. APPC Global Objects
                                         - global values, defaults,
                                           controls (including CNOS)
-- 2. APPC Defined Lu Tables - Admin and Oper
-- 3. APPC Defined LU Pair Tables - Admin and Oper
-- 4. APPC Mode Tables
                                          - Admin and Oper
-- 5. APPC TP Tables
                                          - Admin only
-- 6. APPC Session Tables - Active, Stats, I
-- 7. APPC Conversation Table - Active, History
-- 8. APPC CPIC side info - Admin and Oper
                                          - Active, Stats, History, RTP
__ ********************************
__ ****************************
Allen, et. al.
                              Standards Track
                                                                     [Page 11]
```

```
-- Textual Convention
__ ______
SnaSenseData ::= TEXTUAL-CONVENTION
    STATUS current
    DESCRIPTION
        "To facilitate their display by a Management Station, sense
       data objects in the MIB are represented as DisplayStrings of
       size 8. Eight '0' characters indicates that no sense data
       identifying an SNA error condition is available."
    SYNTAX DisplayString (SIZE (8))
-- APPC Control Objects
__ ______
-- The following objects allow:
   * the collection of APPC Session information counters
     to be started and stopped
   * the collection of APPC Session RSCVs
___
     to be started and stopped
   * the collection of APPC tracing information to be started and
--
     stopped
-- These objects are for implementations that wish to provide
-- this level of operational control. This group is
-- conditionally mandatory in the conformance section of the MIB.
__ *********************************
-- Control Admin
     These objects contain the desired states for the controls.
      The actual states are in the Oper objects.
__ *********************************
appcCntrlAdminGroup OBJECT IDENTIFIER ::= { appcGlobal 1 }
appcCntrlAdminStat OBJECT-TYPE
    SYNTAX INTEGER {
                 notActive(1),
                 active(2)
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Indicates the desired state of statistics collection:
           notActive collection of counters is not active.
                  collection of counters is active.
           active
```

```
When this object is set to notActive, all of the entries are
          removed from the appcSessStatsTable."
      ::= { appcCntrlAdminGroup 1 }
appcCntrlAdminRscv OBJECT-TYPE
     SYNTAX INTEGER {
                     notActive(1),
                     active(2)
     MAX-ACCESS read-write
     STATUS current
     DESCRIPTION
          "Indicates the desired state of RSCV information collection:
             notActive collection of route selection control vectors
                        is not active.
             active
                        collection of route selection control vectors
                        is active."
      ::= { appcCntrlAdminGroup 2 }
appcCntrlAdminTrace OBJECT-TYPE
     SYNTAX INTEGER {
                     notActive(1),
                     active(2)
     MAX-ACCESS read-write
     STATUS current
     DESCRIPTION
          "Indicates the desired state of tracing:
             notActive collection of tracing information is not active
                        collection of tracing information is active"
      ::= { appcCntrlAdminGroup 3 }
appcCntrlAdminTraceParm OBJECT-TYPE
     SYNTAX DisplayString (SIZE (0..128))
     MAX-ACCESS read-write
     STATUS current
     DESCRIPTION
          "Specifies the parameter to be used in conjunction with
         activating tracing. The actual content is implementation
         dependent."
      ::= { appcCntrlAdminGroup 4 }
__ **********************************
```

```
-- Control Oper
-- These objects contain the actual states of the controls.
__ ********************************
appcCntrlOperGroup OBJECT IDENTIFIER ::= { appcGlobal 2 }
appcCntrlOperStat OBJECT-TYPE
     SYNTAX INTEGER {
                     notActive(1),
                     active(2)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
         "Indicates the current collection options in effect:
             notActive collection of counters is not active.
                      collection of counters is active.
         Statistical entries are present in the appcSessStatsTable
         only when the value of this object is 'active'."
      ::= { appcCntrlOperGroup 1 }
appcCntrlOperStatTime OBJECT-TYPE
     SYNTAX TimeTicks
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Time since the appcCntrlOperStat object last changed.
          This time is in hundreds of a second."
      ::= { appcCntrlOperGroup 2 }
appcCntrlOperRscv OBJECT-TYPE
     SYNTAX INTEGER {
                    notActive(1),
                     active(2)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Indicates the current collection options in effect:
             notActive collection of route selection control vectors
                       is not active.
                      collection of route selection control vectors
             active
                        is active."
```

```
::= { appcCntrlOperGroup 3 }
appcCntrlOperRscvTime OBJECT-TYPE
     SYNTAX TimeTicks
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Time since the appcCntrlOperRscv object last changed.
          This time is in hundreds of a second."
      ::= { appcCntrlOperGroup 4 }
appcCntrlOperTrace OBJECT-TYPE
     SYNTAX INTEGER {
                     notActive(1),
                     active(2)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Indicates the current state of tracing:
             notActive collection of tracing information is not active.
             active collection of tracing information is active."
      ::= { appcCntrlOperGroup 5 }
appcCntrlOperTraceTime OBJECT-TYPE
     SYNTAX TimeTicks
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Time since the appcCntrlOperTrace object last changed.
          This time is in hundreds of a second."
      ::= { appcCntrlOperGroup 6 }
appcCntrlOperTraceParm OBJECT-TYPE
     SYNTAX DisplayString (SIZE (0..128))
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies the parameter used in conjunction with activating
          tracing. The actual content is implementation dependent."
      ::= { appcCntrlOperGroup 7 }
__ ***********************************
```

```
APPC global settings
__ ********************
appcGlobalObjects OBJECT IDENTIFIER ::= { appcGlobal 3 }
appcUpTime OBJECT-TYPE
     SYNTAX TimeTicks
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "The time, in hundredths of a second, since the
         APPC portion of the system was last reinitialized."
      ::= { appcGlobalObjects 1 }
appcDefaultModeName OBJECT-TYPE
     SYNTAX DisplayString (SIZE (1..8))
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies the mode name to be used under the following
          conditions:
             When an incoming BIND request contains a mode name not
             defined at the local node. The parameters defined for
             this mode are used for the inbound implicit mode
             capability.
             When an APPC program issues an [MC_]ALLOCATE,
             [MC_]SEND_CONVERSATION, or CNOS verb, or when a CPI-C
             program issues an Allocate (CMALLC) call,
             specifying a mode name not defined at the local node.
             parameters defined for this mode are used for the outbound
             implicit mode capability.
          This mode name must match a defined entry in the
          appcModeAdminTable."
      ::= { appcGlobalObjects 2 }
appcDefaultLuName OBJECT-TYPE
     SYNTAX DisplayString (SIZE (1..17))
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies the name of the local LU that is to serve as the
         default LU. This is the default LU to which are routed inbound
```

BIND requests that exclude the secondary LU name. This field is from 1 to 17 characters in length, including a period (.) which separates the NetId from the NAU name if the NetId is present. This local LU name must match a defined entry in the appcLluAdminTable."

"Specifies whether or not inbound implicit partner LU support is enabled. The following values are defined:

- no Specifies that inbound implicit partner LU support is disabled, which means that an incoming bind that specifies a partner LU that is not defined at the local node will be rejected.
- yes Specifies that inbound implicit partner LU support is enabled, which provides the capability to accept an incoming BIND request that contains a partner LU name that is not defined at the local node."

```
::= { appcGlobalObjects 4 }
```

 ${\tt appcDefaultMaxMcLlSndSize\ OBJECT-TYPE}$

SYNTAX Integer32 MAX-ACCESS read-only STATUS current DESCRIPTION

"Specifies the maximum size of a logical record to be used for a mapped conversation when sending data to either the inbound or outbound implicit partner LU. This size is the maximum number of bytes in a single logical record, as indicated in the LL field of the record. The default value is 32767.

Note that this object does not limit the maximum size that an application program can supply on the Send Data call for a mapped conversation."

```
::= { appcGlobalObjects 5 }
```

```
appcDefaultFileSpec OBJECT-TYPE
      SYNTAX DisplayString (SIZE (0..80))
     MAX-ACCESS read-only
      STATUS current
     DESCRIPTION
          "The local file specification that is to be searched by the
           APPC attach manager when no DEFINE_TP verb has been issued
           for the TP name received on an incoming attach. In this
           case, the attach manager will attempt to start a program
           whose file name is the same as the incoming TP name. If
           found, the program is loaded. If not found, the attach is
           rejected.
           The value '*' indicates that the normal search path for
           executable programs is to be used for locating an undefined
           transaction program.
           A null string indicates that there is no default file
           specification for undefined transaction programs."
      ::= { appcGlobalObjects 6 }
appcDefaultTpOperation OBJECT-TYPE
      SYNTAX INTEGER {
                      other(1),
                      queuedOperatorStarted(2),
                      queuedOperatorPreloaded(3),
                      queuedAmStarted(4),
                      nonqueuedAmStarted(5)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies how the program will be started.
              other - Specifies that the default TP operation is none of
                      the methods specified below. It may be a
                      product-specific method.
              queuedOperatorStarted - Specifies that one version of the
                      program will be run at a time. If an incoming
                      attach arrives and the program has not been started
                      yet, APPC will issue a message to the operator to
                      start the specified program. Subsequent attaches
```

queuedOperatorPreloaded - Specifies that one version

that arrive while the program is active will be

queued.

of the program will be run at a time. If an incoming attach arrives and the program has not been started yet, the Attach will be rejected. The APPC attach manager determines that a TP has started upon reception of an APPC RECEIVE_ALLOCATE verb, or a CPI-C Accept_Conversation (CMACCP) or Specify_Local_TP_Name (CMSLTP) call. No message is sent to the operator. Subsequent attaches that arrive while the program is active are queued.

queuedAmStarted - Specifies that one version of the program will be run at a time and will be started by the APPC attach manager. Subsequent attaches that arrive while the program is active will be queued.

```
::= { appcGlobalObjects 7 }
appcDefaultTpConvSecRqd OBJECT-TYPE
     SYNTAX INTEGER {
                     no(1),
                     yes(2)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies whether or not conversation security will be used
          for default TPs.
                   - Specifies that the incoming attach does not have to
                     contain security information.
              yes - Specifies that the incoming attach must contain
                      valid authentication information (e.g., user ID and
                      password)."
      ::= { appcGlobalObjects 8 }
appcLocalCpName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (0..17))
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the name of the local control point. This field is
          from 0 to 17 characters in length, including a period (.) which
```

```
separates the NetId from the NAU name if the NetId is present.
         A null string indicates that the value is unknown."
      ::= { appcGlobalObjects 9 }
appcActiveSessions OBJECT-TYPE
     SYNTAX Gauge32
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
         "Specifies the total number of active APPC sessions supported
         by this implementation. Sessions for which both LUs are local
         are counted twice."
      ::= { appcGlobalObjects 10 }
appcActiveHprSessions OBJECT-TYPE
     SYNTAX Gauge32
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
         "Specifies the total number of active HPR APPC sessions."
      ::= { appcGlobalObjects 11 }
__ **********************************
     APPC CNOS control
--
-- This group contains objects for issuing APPC Change-Number-of-Session
-- (CNOS) commands to a specific mode. Specifically, the commands
-- supported are:
               INITIALIZE_SESSION_LIMIT
               CHANGE_SESSION_LIMIT
               RESET_SESSION_LIMIT
__ *********************************
appcCnosControl OBJECT IDENTIFIER ::= { appcGlobal 4 }
appcCnosCommand OBJECT-TYPE
     SYNTAX INTEGER {
                     initSesslimit(1),
                     changeSesslimit(2),
                    resetSesslimit(3)
                    }
     MAX-ACCESS read-write
     STATUS current
```

DESCRIPTION

"Specifies the CNOS command or verb to issue. First set the values of the particular CNOS parameter objects (from the range { appcCnosControl 2 } through { appcCnosControl 8 }) that apply to the CNOS command to be executed, set the three CNOS target objects ({ appcCnosControl 9 } through { appcCnosControl 11 }), then set this object to the command to be executed.

Here is the list of parameter objects that must be set for each of the CNOS commands:

INIT_SESSION_LIMIT appcCnosMaxSessLimit appcCnosMinCwinLimit appcCnosMinClosLimit appcCnosTargetLocLuName appcCnosTargetParLuName appcCnosTargetModeName

CHANGE_SESSION_LIMIT appcCnosMaxSessLimit
appcCnosMinCwinLimit
appcCnosMinClosLimit
appcCnosResponsible
appcCnosTargetLocLuName
appcCnosTargetParLuName
appcCnosTargetModeName

RESET_SESSION_LIMIT appcCnosResponsible
appcCnosDrainPart
appcCnosForce
appcCnosTargetLocLuName
appcCnosTargetParLuName
appcCnosTargetModeName

::= { appcCnosControl 1 }

appcCnosMaxSessLimit OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-write
STATUS current
DESCRIPTION

"Specifies the maximum value that the local LU is to use, during CNOS processing, for the session limit. The local LU, as a target LU, will negotiate a higher session limit it receives in the CNOS request down to this maximum value. The

local LU, as a source LU, will restrict the session limit it sends in a CNOS request to a value less than or equal to this maximum value.

If set (i.e., greater than 0), this overrides the maximum session limit defined in the appcModeAdminTable.

This parameter should be set to the desired value before setting the command (appcCnosCommand).

This parameter applies to the INITIALIZE_SESSION_LIMIT and CHANGE_SESSION_LIMIT verbs."

STATUS current

DESCRIPTION

"Specifies the default minimum contention winner sessions limit.

This parameter should be set to the desired value before setting the command (appcCnosCommand).

This parameter applies to the INITIALIZE_SESSION_LIMIT and CHANGE_SESSION_LIMIT verbs."

```
DEFVAL { 0 }
::= { appcCnosControl 3 }
```

appcCnosMinClosLimit OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Specifies the default minimum contention loser sessions limit.

This parameter should be set to the desired value before setting the command (appcCnosCommand).

This parameter applies to the INITIALIZE_SESSION_LIMIT and CHANGE_SESSION_LIMIT verbs."

```
DEFVAL { 0 }
      ::= { appcCnosControl 4 }
appcCnosDrainSelf OBJECT-TYPE
      SYNTAX INTEGER {
                      no(1),
                      yes(2)
     MAX-ACCESS read-write
      STATUS current
      DESCRIPTION
          "Specifies whether the local LU is draining its conversations
          for this mode. When a mode session limit is reset (via a CNOS
         RESET_SESSION_LIMIT request), the local LU could be set to
         process all queued conversations before deactivating all of the
          sessions (using the SNA Bracket Initiation Stopped or BIS
         protocol).
         This parameter should be set to the desired value before
          setting the command (appcCnosCommand).
         This parameter applies only to the RESET_SESSION_LIMIT verb."
     DEFVAL { no }
      ::= { appcCnosControl 5 }
appcCnosDrainPart OBJECT-TYPE
     SYNTAX INTEGER {
                      no(1),
                      yes(2)
     MAX-ACCESS read-write
      STATUS current
     DESCRIPTION
          "Specifies whether the partner LU is draining its conversations
          for this mode. When a mode session limit is reset (via a CNOS
         RESET_SESSION_LIMIT request), the partner LU could be set to
         process all queued conversations before deactivating all of the
          sessions (using the SNA Bracket Initiation Stop or BIS
         protocol).
         This parameter should be set to the desired value before
          setting the command (appcCnosCommand).
         This parameter applies only to the RESET_SESSION_LIMIT verb."
```

```
DEFVAL { yes }
      ::= { appcCnosControl 6 }
appcCnosResponsible OBJECT-TYPE
     SYNTAX INTEGER {
                      source(1),
                     target(2)
     MAX-ACCESS read-write
     STATUS current
     DESCRIPTION
          "Specifies which LU is responsible for selecting and
          deactivating sessions as a result of a change that decreases
          the session limit or the maximum number of contention winner
          sessions for the source or target LU. If no session need to be
         deactivated, this parameter is ignored.
                               specifies that the source (local) LU is
                source -
                               responsible. The target (partner) LU
                               cannot negotiate this value.
                target -
                              specifies that the target (partner) LU is
                               responsible. The target LU can negotiate
                                this value to source.
          This parameter should be set to the desired value before
          setting the command (appcCnosCommand).
          This parameter applies to the RESET SESSION LIMIT and
          CHANGE_SESSION_LIMIT verbs."
     DEFVAL { source }
      ::= { appcCnosControl 7 }
appcCnosForce OBJECT-TYPE
     SYNTAX INTEGER {
                     no(1),
                     yes(2)
     MAX-ACCESS read-write
     STATUS current
     DESCRIPTION
          "Specifies whether the local LU should force the resetting of
          the session limit when certain error conditions occur that
```

Allen, et. al. Standards Track [Page 24]

prevent the successful exchange of CNOS request and reply.

This parameter should be set to the desired value before

```
setting the command (appcCnosCommand).
           This parameter applies only to the RESET_SESSION_LIMIT verb."
      DEFVAL { no }
      ::= { appcCnosControl 8 }
appcCnosTargetLocLuName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..17))
      MAX-ACCESS read-write
      STATUS current
      DESCRIPTION
          "The SNA name of the local LU to which the CNOS command is
           to be applied. This field is from 1 to 17 characters in
           length, including a period (.) which separates the
           NetId from the NAU name if the NetId is present.
           This object should be set to the desired value before setting
           the command (appcCnosCommand).
           This parameter applies to all CNOS verbs."
      ::= { appcCnosControl 9 }
appcCnosTargetParLuName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..17))
      MAX-ACCESS read-write
      STATUS current
      DESCRIPTION
          "The SNA name of the partner LU to which the CNOS command is
           to be applied. This field is from 1 to 17 characters in
           length, including a period (.) which separates the
           NetId from the NAU name if the NetId is present.
           This object should be set to the desired value before setting
           the command (appcCnosCommand).
           This parameter applies to all CNOS verbs."
      ::= { appcCnosControl 10 }
appcCnosTargetModeName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..8))
      MAX-ACCESS read-write
      STATUS current
      DESCRIPTION
          "Specifies the mode name to which the CNOS command is to be
```

```
applied.
         This object should be set to the desired value before setting
         the command (appcCnosCommand).
         This parameter applies to all CNOS verbs."
     ::= { appcCnosControl 11 }
__ ***********************************
    APPC LU information
-- Local LU
-- Partner LU
__ **********************************
__ ***********************
-- APPC Local LU
-- The entries in the following tables provide information for
-- independent and dependent LU 6.2.
__ ********************************
__ **********************************
   APPC Local LU Admin Table
   Objects in this table contain default or expected configuration
    values for local 6.2 LUs.
__ *********************************
appcLluAdminTable OBJECT-TYPE
    SYNTAX SEQUENCE OF AppcLluAdminEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "APPC Local LU Admin Table."
     ::= { appcLu 1 }
appcLluAdminEntry OBJECT-TYPE
    SYNTAX AppcLluAdminEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Information about local APPC LUs. "
```

```
INDEX { appcLluAdminName }
      ::= { appcLluAdminTable 1 }
AppcLluAdminEntry
                     ::= SEQUENCE {
                                       DisplayString,
        appcLluAdminName
        appcLluAdminDepType
                                       INTEGER,
        appcLluAdminLocalAddress
                                      OCTET STRING,
        appcLluAdminSessLimit
                                       Integer32,
        appcLluAdminBindRspMayQ
                                      INTEGER,
        appcLluAdminCompression
                                      INTEGER,
        appcLluAdminInBoundCompLevel INTEGER,
        appcLluAdminOutBoundCompLevel INTEGER,
        appcLluAdminCompRleBeforeLZ INTEGER,
appcLluAdminAlias DisplayS
        appcLluAdminAlias
                                       DisplayString
appcLluAdminName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..17))
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
          "Specifies the name of the local LU. This field is from 1 to
          17 characters in length, including a period (.) which separates
          the NetId from the NAU name if the NetId is present."
      ::= { appcLluAdminEntry 1 }
appcLluAdminDepType OBJECT-TYPE
      SYNTAX INTEGER {
                      dependent(1),
                      independent(2)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "This value identifies whether the LU is dependent or
          independent."
      ::= { appcLluAdminEntry 2 }
appcLluAdminLocalAddress OBJECT-TYPE
      SYNTAX OCTET STRING (SIZE (1))
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The local address for this LU is a byte with a value ranging
          from 0 to 254. For dependent LUs, this value ranges from 1 to
```

```
254; for independent LUs this value is always 0."
      ::= { appcLluAdminEntry 3 }
appcLluAdminSessLimit OBJECT-TYPE
     SYNTAX Integer32
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "The maximum number of sessions supported by this LU."
      ::= { appcLluAdminEntry 4 }
appcLluAdminBindRspMayQ OBJECT-TYPE
     SYNTAX INTEGER {
                     no(1),
                     yes(2)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Indicates whether or not the local LU, as the sender of a BIND
         request, allows a partner partner LU to delay sending the BIND
         response if the partner LU cannot process the BIND request
          immediately."
      ::= { appcLluAdminEntry 5 }
appcLluAdminCompression OBJECT-TYPE
     SYNTAX INTEGER {
                     prohibited(1),
                     required(2),
                     negotiable(3)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies whether compression is supported. The local LU uses
           this value for negotiation during session activation
           (SNA BIND).
              prohibited - specifies that no compression is to be used.
              required - specifies that compression is required.
              negotiable - specifies that the usage of compression
                            is to be negotiated between the LUs. The
                             level of compression is also negotiated."
      ::= { appcLluAdminEntry 6 }
```

```
appcLluAdminInBoundCompLevel OBJECT-TYPE
      SYNTAX INTEGER {
                     none(1),
                     rle(2),
                     1z9(3),
                      lz10(4),
                      1z12(5)
     MAX-ACCESS read-only
      STATUS current
     DESCRIPTION
          "Specifies the maximum level of compression supported for
          inbound data. The local LU uses this value in conjunction with
          appcLluAdminCompression for negotiation during session
          activation (SNA BIND).
              none - specifies that no compression is to be used.
              rle - specifies run-length encoding compression
                      in which a 1 or 2 byte sequence substitution is
                      used for each repeated run of the same character.
              1z9
                    - specifies Lempel-Ziv-like compression in which
                       9 bit codes are used to substitute repeated
                       substrings in the data stream. These codes are
                       indices that refer to entries in a common
                       dictionary generated adaptively at both sender and
                       receiver as the data flows and compression occurs.
                       The larger number bits used for the code, the more
                       storage space is required for the dictionary, but
                      the larger the compression ratio.
              lz10 - specifies a 10 bit code Lempel-Ziv-like compression.
              lz12 - specifies a 12 bit code Lempel-Ziv-like compression."
      ::= { appcLluAdminEntry 7 }
appcLluAdminOutBoundCompLevel OBJECT-TYPE
     SYNTAX INTEGER {
                     none(1),
                     rle(2),
                      lz9(3),
                      lz10(4),
                      lz12(5)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the maximum level of compression supported for
          outbound data. The local LU uses this value in conjunction
          with appcLluAdminCompression for negotiation during session
          activation (SNA BIND).
```

```
none - specifies that no compression is to be used.
             rle - specifies run-length encoding compression
                      in which a 1 or 2 byte sequence substitution is
                      used for each repeated run of the same character.
             lz9
                   - specifies Lempel-Ziv-like compression in which
                      9 bit codes are used to substitute repeated
                      substrings in the data stream. These codes are
                      indices that refer to entries in a common
                      dictionary generated adaptively at both sender and
                      receiver as the data flows and compression occurs.
                      The larger of number bits used for the code, the
                      more storage space is required for the dictionary,
                      but the larger the compression ratio.
             lz10 - specifies a 10 bit code Lempel-Ziv-like compression.
             1z12 - specifies a 12 bit code Lempel-Ziv-like compression."
      ::= { appcLluAdminEntry 8 }
appcLluAdminCompRleBeforeLZ OBJECT-TYPE
     SYNTAX INTEGER {
                     no(1),
                     yes(2)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies whether run-length encoding is to be applied to the
         data before applying Lempel-Ziv-like compression. The local LU
         uses this value for negotiation during session activation (SNA
         BIND). This parameter is only supported if LZ compression is
         used."
      ::= { appcLluAdminEntry 9 }
appcLluAdminAlias OBJECT-TYPE
     SYNTAX DisplayString (SIZE (0..8))
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "A local alias for the local LU. If not known or
          not applicable, this object contains a zero-length
          string."
      ::= { appcLluAdminEntry 10 }
__ *********************************
    APPC Local LU Oper Table
Allen, et. al.
                           Standards Track
                                                             [Page 30]
```

```
Objects in this table contain current operational values, such
     as state values or negotiated parameters, for local 6.2 LUs.
appcLluOperTable OBJECT-TYPE
     SYNTAX SEQUENCE OF AppcLluOperEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "APPC Local LU Operational Table."
     ::= { appcLu 2 }
appcLluOperEntry OBJECT-TYPE
     SYNTAX AppcLluOperEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "Information about local APPC LUs."
     INDEX { appcLluOperName }
     ::= { appcLluOperTable 1 }
AppcLluOperEntry
                  ::= SEQUENCE {
                                   DisplayString,
       appcLluOperName
       appcLluOperDepType
                                   INTEGER,
       appcLluOperLocalAddress
                                  OCTET STRING,
       appcLluOperSessLimit
                                   Integer32,
                                  INTEGER,
       appcLluOperBindRspMayQ
       appcLluOperCompression
                                   INTEGER,
       appcLluOperInBoundCompLevel INTEGER,
       appcLluOperOutBoundCompLevel INTEGER,
       appcLluOperCompRleBeforeLZ INTEGER, appcLluOperAlias DisplayString,
       appcLluOperActiveSessions Gauge32
appcLluOperName OBJECT-TYPE
     SYNTAX DisplayString (SIZE (1..17))
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "Specifies the name of the local LU. This field is from 1 to
         17 characters in length, including a period (.) which separates
         the NetId from the NAU name if the NetId is present."
     ::= { appcLluOperEntry 1 }
```

```
appcLluOperDepType OBJECT-TYPE
      SYNTAX INTEGER {
                      dependent(1),
                      independent(2)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "This value identifies whether the LU is dependent or
          independent."
      ::= { appcLluOperEntry 2 }
appcLluOperLocalAddress OBJECT-TYPE
      SYNTAX OCTET STRING (SIZE (1))
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The local address for this LU is a byte with a value ranging
          from 0 to 254. For dependent LUs, this value ranges from 1 to
          254; for independent LUs this value is always 0."
      ::= { appcLluOperEntry 3 }
appcLluOperSessLimit OBJECT-TYPE
      SYNTAX Integer32
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The maximum number of sessions supported by this LU."
      ::= { appcLluOperEntry 4 }
appcLluOperBindRspMayQ OBJECT-TYPE
      SYNTAX INTEGER {
                      no(1),
                      yes(2)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Indicates whether or not the local LU, as the sender of a BIND
          request, allows a partner LU to delay sending the {\tt BIND}
          response if the partner LU cannot process the BIND request
          immediately."
      ::= { appcLluOperEntry 5 }
```

```
appcLluOperCompression OBJECT-TYPE
      SYNTAX INTEGER {
                     prohibited(1),
                     required(2),
                     negotiable(3)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies whether compression is supported. The local LU uses
          this value for negotiation during session activation (SNA
              prohibited - specifies that no compression is to be used.
              required - specifies that compression is required.
              negotiable - specifies that the usage of compression
                             is to be negotiated between the LUs. The
                             level of compression is also negotiated."
      ::= { appcLluOperEntry 6 }
appcLluOperInBoundCompLevel OBJECT-TYPE
      SYNTAX INTEGER {
                      none(1),
                     rle(2),
                      lz9(3),
                      lz10(4),
                     lz12(5)
                     }
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the maximum level of compression supported for
          inbound data. The local LU uses this value in conjunction with
          appcLluOperCompression for negotiation during session
          activation (SNA BIND).
              none - specifies that no compression is to be used.
                   - specifies run-length encoding compression
                      in which a 1 or 2 byte sequence substitution is
                      used for each repeated run of the same character.
              lz9
                    - specifies Lempel-Ziv-like compression in which
                       9 bit codes are used to substitute repeated
                       substrings in the data stream. These codes are
                       indices that refer to entries in a common
                       dictionary generated adaptively at both sender and
                       receiver as the data flows and compression occurs.
                       The larger of number bits used for the code, the
```

```
more storage space is required for the dictionary,
                      but the larger the compression ratio.
             lz10 - specifies a 10 bit code Lempel-Ziv-like compression.
             lz12 - specifies a 12 bit code Lempel-Ziv-like compression."
      ::= { appcLluOperEntry 7 }
appcLluOperOutBoundCompLevel OBJECT-TYPE
      SYNTAX INTEGER {
                     none(1),
                     rle(2),
                     lz9(3),
                      lz10(4),
                     1z12(5)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies the maximum level of compression supported for
          outbound data. The local LU uses this value in conjunction
         with appcLluAdminCompression for negotiation during session
          activation (SNA BIND).
             none - specifies that no compression is to be used.
                   - specifies run-length encoding compression
                      in which a 1 or 2 byte sequence substitution is
                      used for each repeated run of the same character.
              lz9
                    - specifies Lempel-Ziv-like compression in which
                      9 bit codes are used to substitute repeated
                       substrings in the data stream. These codes are
                       indices that refer to entries in a common
                      dictionary generated adaptively at both sender and
                      receiver as the data flows and compression occurs.
                      The larger of number bits used for the code, the
                      more storage space is required for the dictionary,
                      but the larger the compression ratio.
             lz10 - specifies a 10 bit code Lempel-Ziv-like compression.
              lz12 - specifies a 12 bit code Lempel-Ziv-like compression."
      ::= { appcLluOperEntry 8 }
appcLluOperCompRleBeforeLZ OBJECT-TYPE
      SYNTAX INTEGER {
                     no(1),
                     yes(2)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
```

"Specifies whether run-length encoding is to be applied to the data before applying Lempel-Ziv-like compression. The local LU

```
uses this value for negotiation during session activation (SNA
         BIND). This parameter is only supported if LZ compression is
         used."
     ::= { appcLluOperEntry 9 }
appcLluOperAlias OBJECT-TYPE
     SYNTAX DisplayString (SIZE (0..8))
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
         "A local alias for the local LU. If not known or
          not applicable, this object contains a zero-length
          string."
     ::= { appcLluOperEntry 10 }
appcLluOperActiveSessions OBJECT-TYPE
     SYNTAX Gauge32
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
         "Specifies the total number of active APPC sessions for this
     ::= { appcLluOperEntry 11 }
__ **************************
     APPC LU Pair Admin Table
     Objects in this table contain default or expected configuration
     values for 6.2 LU pairs. An LU pair consists of a local LU and
     a partner LU, which may or may not be local.
__ *********************************
appcLuPairAdminTable OBJECT-TYPE
     SYNTAX SEQUENCE OF AppcLuPairAdminEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "APPC Partner LU administrative Table"
     ::= { appcLu 3 }
appcLuPairAdminEntry OBJECT-TYPE
     SYNTAX AppcLuPairAdminEntry
     MAX-ACCESS not-accessible
     STATUS current
```

```
DESCRIPTION
          "Entry of APPC Partner LU Information Table.
          It is indexed by the local and partner LU Names."
      INDEX { appcLuPairAdminLocLuName,
              appcLuPairAdminParLuName }
      ::= { appcLuPairAdminTable 1 }
AppcLuPairAdminEntry ::= SEQUENCE {
      appcLuPairAdminLocLuName
                                     DisplayString,
      appcLuPairAdminParLuName
                                    DisplayString,
      appcLuPairAdminParLuAlias
                                     DisplayString,
                                     Integer32,
      appcLuPairAdminSessLimit
      appcLuPairAdminSessSec
                                     INTEGER,
      appcLuPairAdminSecAccept
appcLuPairAdminLinkObjId
appcLuPairAdminParaSessSup
                                     INTEGER,
                                    InstancePointer,
                                    INTEGER
appcLuPairAdminLocLuName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..17))
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
          "The SNA name of the local LU to which this partner LU
           definition applies. This field is from 1 to 17 characters in
           length, including a period (.) which separates the
           NetId from the NAU name if the NetId is present.
           The reserved value '*ALL' indicates that the partner LU
           definition applies to all local LUs, and not just to a single
           local LU."
      ::= { appcLuPairAdminEntry 1 }
appcLuPairAdminParLuName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..17))
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
          "The SNA name of the partner LU.
           This field is from 1 to 17 characters in
           length, including a period (.) which separates the
           NetId from the NAU name if the NetId is present."
```

```
::= { appcLuPairAdminEntry 2 }
appcLuPairAdminParLuAlias OBJECT-TYPE
      SYNTAX DisplayString (SIZE (0..8))
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "A local alias for the partner LU. If not known or
          not applicable, this object contains a zero-length
           string."
      ::= { appcLuPairAdminEntry 3 }
appcLuPairAdminSessLimit OBJECT-TYPE
      SYNTAX Integer32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The maximum number of sessions supported by this partner LU."
      ::= { appcLuPairAdminEntry 4 }
appcLuPairAdminSessSec OBJECT-TYPE
      SYNTAX INTEGER {
                      required(1),
                      accepted(2),
                     notAllowed(3)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the type of session-level security information that
          a local LU will accept on BIND requests it receives from the
          partner LU.
          required
                        Specifies that the BIND request must carry
                          session level verification information that
                          will be verified upon receipt.
                      - Specifies that the BIND request may carry
          accepted
                         session level verification information that
                          will be verified upon receipt.
                         Specifies that the BIND request must not carry
                          session level verification information."
      ::= { appcLuPairAdminEntry 5 }
appcLuPairAdminSecAccept OBJECT-TYPE
      SYNTAX INTEGER {
```

none - No access security information will be accepted on allocation requests (ATTACH) from this LU.

conversation

- Allocation requests will not be accepted that include already verified or persistent verification indicators. Accept conversation-level access security information, which must include both a user Id and password, and may also include a profile.

alreadyVerified

 Allocation requests will be accepted that include already verified indicators.
 Persistent verification indicators will not be accepted.

${\tt persistentVerification}$

- Allocation requests will be accepted that include persistent verification indicators.
 Already verified indicators will not be accepted.
- aVandpV Allocation requests will be accepted that include already verified or persistent verification indicators."

```
::= { appcLuPairAdminEntry 6 }
```

STATUS current

DESCRIPTION

"Specifies the link associated with this partner LU. This value points to the row in the table containing information on

```
the link instance. (e.g., the sdlcLSAdminTable of the SNA DLC
         MIB module). This object may be NULL if the link is not
         specified or if a link is not applicable (as for APPN-level
         nodes)."
     ::= { appcLuPairAdminEntry 7 }
appcLuPairAdminParaSessSup OBJECT-TYPE
     SYNTAX INTEGER {
                    no(1),
                    yes(2)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
         "Defined Parallel Sessions Supported.
         Indicates whether or not multiple sessions between the partner
         LU and its associated local LU are permitted. Parallel session
         support also indicates that Change Number of Sessions (CNOS)
         will be used to negotiate session limits between the LUs."
     ::= { appcLuPairAdminEntry 8 }
__ ********************************
     APPC LU Pair Oper Table
    Objects in this table contain current operational values, such
    as state values or negotiated parameters, for 6.2 LU pairs.
appcLuPairOperTable OBJECT-TYPE
     SYNTAX SEQUENCE OF AppcLuPairOperEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "Table of active partner/local LU pairs. Two entries are
         present in the table when both LUs in a pair are local."
     ::= { appcLu 4 }
appcLuPairOperEntry OBJECT-TYPE
     SYNTAX AppcLuPairOperEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "Entry representing one partner/local LU pair."
     INDEX { appcLuPairOperLocLuName,
```

```
appcLuPairOperParLuName }
      ::= { appcLuPairOperTable 1 }
AppcLuPairOperEntry
                      ::= SEQUENCE {
    appcLuPairOperLocLuName
                                       DisplayString,
    appcLuPairOperParLuName
                                       DisplayString,
    appcLuPairOperParLuAlias
                                       DisplayString,
    appcLuPairOperSessLimit
                                       Integer32,
                                       INTEGER,
    appcLuPairOperSessSec
    appcLuPairOperSecAccept
                                      INTEGER,
    appcLuPairOperLinkObjId
                                      InstancePointer,
    appcLuPairOperParaSessSup
                                      INTEGER,
   appcLuPairOperParaSessSupLS
                                      INTEGER,
                                       INTEGER
   appcLuPairOperState
appcLuPairOperLocLuName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..17))
     MAX-ACCESS not-accessible
      STATUS current
     DESCRIPTION
          "The SNA name of the local LU. This field is from 1 to 17
          characters in length, including a period (.) which separates
          the NetId from the NAU name if the NetId is present.
          If this object has the same value as appcLluOperName,
          then the two entries being indexed apply to the same
          resource (specifically, to the same local LU)."
      ::= { appcLuPairOperEntry 1 }
appcLuPairOperParLuName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..17))
     MAX-ACCESS not-accessible
      STATUS current
     DESCRIPTION
          "The SNA name of the partner LU.
          This field is from 1 to 17 characters in
          length, including a period (.) which separates the
          NetId from the NAU name if the NetId is present."
      ::= { appcLuPairOperEntry 2 }
appcLuPairOperParLuAlias OBJECT-TYPE
     SYNTAX DisplayString (SIZE (0..8))
     MAX-ACCESS read-only
     STATUS current
```

```
DESCRIPTION
          "A local alias for the partner LU. If not known or
           not applicable, this object contains a zero-length
           string."
      ::= { appcLuPairOperEntry 3 }
appcLuPairOperSessLimit OBJECT-TYPE
      SYNTAX Integer32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The maximum number of sessions supported by this partner LU."
      ::= { appcLuPairOperEntry 4 }
appcLuPairOperSessSec OBJECT-TYPE
      SYNTAX INTEGER {
                      required(1),
                      accepted(2),
                      notAllowed(3)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the type of security information that a local LU
          will accept on BIND requests it receives from the partner LU.
          required
                          Specifies that the BIND request must carry
                          session level verification information that
                          will be verified upon receipt.
                         Specifies that the BIND request may carry
          accepted
                          session level verification information that
                          will be verified upon receipt.
                         Specifies that the BIND request must not carry
          notAllowed -
                          session level verification information."
      ::= { appcLuPairOperEntry 5 }
appcLuPairOperSecAccept OBJECT-TYPE
      SYNTAX INTEGER {
                      none(1),
                      conversation(2),
                      alreadyVerified(3),
                      persistentVerification(4),
                      aVandpV(5)
      MAX-ACCESS read-only
```

STATUS current DESCRIPTION

"Specifies support for different levels of security acceptance information in ATTACH requests received from this partner LU.

Possible values are:

none - No access security information will be accepted on allocation requests (ATTACH) from this LU.

conversation

- Allocation requests will not be accepted that include already verified or persistent verification indicators. Accept conversation-level access security information, which must include both a user Id and password, and may also include a profile.

alreadyVerified

 Allocation requests will be accepted that include already verified indicators.
 Persistent verification indicators will not be accepted.

persistentVerification

- Allocation requests will be accepted that include persistent verification indicators.
 Already verified indicators will not be accepted.
- aVandpV Allocation requests will be accepted that include already verified or persistent verification indicators."

::= { appcLuPairOperEntry 6 }

appcLuPairOperLinkObjId OBJECT-TYPE

SYNTAX InstancePointer MAX-ACCESS read-only STATUS current

DESCRIPTION

"Specifies the link associated with this partner LU. This value points to the row in the table containing information on the link instance. (e.g., the sdlcLSAdminTable of the SNA DLC MIB module). This object may be NULL if the link is not specified or if a link is not applicable (as for APPN-level nodes)."

::= { appcLuPairOperEntry 7 }

appcLuPairOperParaSessSup OBJECT-TYPE

Allen, et. al. Standards Track [Page 42]

```
SYNTAX INTEGER {
                     no(1),
                      yes(2)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Active Parallel Sessions Supported.
           Indicates whether or not multiple session between the partner
           LU and its associated local LU are permitted. Parallel
           session support also indicates that Change Number of Sessions
           (CNOS) will be used to negotiate session limits between the
           LUs."
      ::= { appcLuPairOperEntry 8 }
appcLuPairOperParaSessSupLS OBJECT-TYPE
      SYNTAX INTEGER {
                     no(1),
                      yes(2)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Active Parallel Sessions Supported - last starting value.
           This object represents the initial value proposed by the local
           LU the last time this capability was negotiated, i.e., when
           the first session was bound between the local LU and its
           partner."
      ::= { appcLuPairOperEntry 9 }
appcLuPairOperState OBJECT-TYPE
     SYNTAX INTEGER {
                     inactive (1),
                      active (2)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The value identifies the current operational state of this LU
         pair:
                  inactive (1) - no active or pending session exists
                                between the LUs.
                  active (2) - an active or pending session exists
```

```
between the LUs."
     ::= { appcLuPairOperEntry 10 }
__ *************************
     APPC Mode Admin Table
     Objects in this table contain default or expected configuration
     values for session modes.
     Modes that have active sessions appear in the appcModeOperTable.
__ *********************************
appcModeAdminTable OBJECT-TYPE
     SYNTAX SEQUENCE OF AppcModeAdminEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "APPC Mode Table"
     ::= { appcLu 5 }
appcModeAdminEntry OBJECT-TYPE
     SYNTAX AppcModeAdminEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "Entry of APPC Mode Information Table."
     INDEX { appcModeAdminLocLuName,
             appcModeAdminParLuName,
             appcModeAdminModeName }
     ::= { appcModeAdminTable 1 }
AppcModeAdminEntry
                    ::= SEQUENCE {
              appcModeAdminLocLuName
                                           DisplayString,
              appcModeAdminParLuName
                                           DisplayString,
              appcModeAdminModeName
                                           DisplayString,
              appcModeAdminCosName
                                           DisplayString,
              appcModeAdminSessEndTpName
                                           DisplayString,
              appcModeAdminMaxSessLimit
                                           Integer32,
```

Integer32,

Integer32,

Integer32,

Integer32,

Integer32,

Integer32,

Integer32,

Integer32,

Integer32,

appcModeAdminMinCwinLimit

appcModeAdminMinClosLimit

appcModeAdminRecvPacWinSz

appcModeAdminSendPacWinSz

appcModeAdminPrefRecvRuSz

appcModeAdminPrefSendRuSz

appcModeAdminRecvRuSzUpBnd

appcModeAdminSendRuSzUpBnd

appcModeAdminConWinAutoActLmt

```
appcModeAdminRecvRuSzLoBnd
                                             Integer32,
              appcModeAdminSendRuSzLoBnd
                                             Integer32,
              appcModeAdminSingSessReinit
                                            INTEGER,
              appcModeAdminCompression
                                            INTEGER,
              appcModeAdminInBoundCompLevel INTEGER,
              appcModeAdminOutBoundCompLevel INTEGER,
              appcModeAdminSyncLvl
                                             INTEGER,
              appcModeAdminCrypto
                                             INTEGER
appcModeAdminLocLuName OBJECT-TYPE
     SYNTAX DisplayString (SIZE (1..17))
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "The SNA name of the local LU to which this mode definition
          applies. This field is from 1 to 17 characters in length,
          including a period (.) which separates the NetId from the
          NAU name if the NetId is present.
          The reserved value '*ALL' indicates that the mode definition
          applies to all local LUs for the SNA node identified by
          appcLocalCpName, and not just to a single local LU."
      ::= { appcModeAdminEntry 1 }
appcModeAdminParLuName OBJECT-TYPE
     SYNTAX DisplayString (SIZE (1..17))
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "The SNA name of the partner LU to which this mode definition
          applies. This field is from 1 to 17 characters in length,
          including a period (.) which separates the NetId from the
          NAU name if the NetId is present.
          The reserved value '*ALL' indicates that the mode definition
          applies to all partner LUs for the SNA node identified by
          appcModeAdminLocLuName, and not just to a single partner LU."
      ::= { appcModeAdminEntry 2 }
appcModeAdminModeName OBJECT-TYPE
     SYNTAX DisplayString (SIZE (1..8))
     MAX-ACCESS not-accessible
     STATUS current
```

```
DESCRIPTION
          "Specifies the mode name. A mode defines the characteristics
           for a group of sessions. The mode name can be blank (8
           space characters). "
      ::= { appcModeAdminEntry 3 }
appcModeAdminCosName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (0..8))
     MAX-ACCESS read-only
     STATUS current
      DESCRIPTION
          "Specifies the class of service (COS) name associated with
           this mode. If the implementation does not support COS names,
           a null string is returned."
      ::= { appcModeAdminEntry 4 }
appcModeAdminSessEndTpName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (0..64))
     MAX-ACCESS read-only
     STATUS current
      DESCRIPTION
          "Specifies the name of the transaction program (TP) to be
          invoked when a session using this mode is deactivated or ended.
          If no such TP is defined, this object is a null string. When
          the TP name consists entirely of displayable EBCDIC code
          points, it is mapped directly to the equivalent ASCII display
          string. However, registered TP names always have a non-
          displayable EBCDIC code point (value less than or equal to
          x'3F') as the first character, so they cannot be directly
          mapped to an ASCII display string. These \ensuremath{\mathsf{TP}} names are
          converted to a display string that is equivalent to a
          hexadecimal display of the EBCDIC code points. For example,
          the 2-byte TP name x'06F1' (CNOS) is converted to the 6-byte
          ASCII display string '06F1' (including the two single quotes).
      ::= { appcModeAdminEntry 5 }
appcModeAdminMaxSessLimit OBJECT-TYPE
      SYNTAX Integer32
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the maximum value that the local LU is to use,
          during CNOS processing, for the session limit. The local LU,
          as a target LU, will negotiate a higher session limit it
```

receives in the CNOS request down to this maximum value. The local LU, as a source LU, will restrict the session limit it sends in a CNOS request to a value less than or equal to this maximum value."

::= { appcModeAdminEntry 6 }

appcModeAdminMinCwinLimit OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Specifies the default minimum contention winner sessions limit. Some implementations internally issue a INITIALIZE_SESSION_LIMIT verb when a Mode is created. This value is the parameter used for the CNOS processing of that verb. This parameter is not used when issuing an explicit INITIALIZE_SESSION_LIMIT verb. The equivalent object in appcCnosCommandTable is used."

::= { appcModeAdminEntry 7 }

appcModeAdminMinClosLimit OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Specifies the default minimum contention loser sessions limit. Some implementations internally issue a INITIALIZE_SESSION_LIMIT verb when a Mode is created. This value is the parameter used for the CNOS processing of that verb. This is the same as target minimum contention winner sessions. This parameter is not used when issuing an explicit INITIALIZE_SESSION_LIMIT verb. The equivalent object in appcCnosCommandTable is used."

::= { appcModeAdminEntry 8 }

appcModeAdminConWinAutoActLmt OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Specifies the limit on the number of contention winner sessions to be automatically activated when the minimum number of contention winner sessions increases (as a result of CNOS processing). The actual number of sessions activated is the lesser of this value and the new minimum number of contention winner sessions. "

```
::= { appcModeAdminEntry 9 }
appcModeAdminRecvPacWinSz OBJECT-TYPE
      SYNTAX Integer32
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the size of the receive pacing window. This value is
           used for negotiation during session activations (SNA BIND).
           The meaning of this value when set to 0 depends on whether
           adaptive pacing is supported:
              adaptive pacing No limit on window size fixed pacing No pacing is supported"
      ::= { appcModeAdminEntry 10 }
appcModeAdminSendPacWinSz OBJECT-TYPE
      SYNTAX Integer32
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the size of the send pacing window. This value is
           used for negotiation during session activations (SNA BIND).
           The meaning of this value when set to 0 depends on whether
           adaptive pacing is supported:
              adaptive pacing No limit on window size
              fixed pacing
                                    No pacing is supported"
      ::= { appcModeAdminEntry 11 }
appcModeAdminPrefRecvRuSz OBJECT-TYPE
      SYNTAX Integer32
     MAX-ACCESS read-only
      STATUS current
     DESCRIPTION
          "Specifies the preferred receive RU (Request Unit) size of
          normal-flow requests on the sessions. This value must be less
          than or equal to the value specified in
          appcModeAdminRecvRuSzUpBnd and greater than or equal to the
          value specified in appcModeAdminRecvRuSzLoBnd.
           The local LU specifies this value for the receive maximum RU
           size in session activation (SNA BIND) requests and responses.
           It will allow negotiation up to the appcModeAdminRecvRuSzUpBnd
           value or down to the appcModeAdminRecvRuSzLoBnd value."
```

[Page 49]

```
::= { appcModeAdminEntry 12 }
appcModeAdminPrefSendRuSz OBJECT-TYPE
      SYNTAX Integer32
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the preferred send RU (Request Unit) size of normal-
          flow requests on the sessions. This value must be less than or
          equal to the value specified in appcModeAdminSendRuSzUpBnd and
          greater than or equal to the value specified in
          appcModeAdminSendRuSzLoBnd.
           The local LU specifies this value for the send maximum \ensuremath{\mathtt{RU}}
           size in session activation (SNA BIND) requests and responses.
           It will allow negotiation up to the appcModeAdminSendRuSzUpBnd
           value or down to the appcModeAdminSendRuSzLoBnd value."
      ::= { appcModeAdminEntry 13 }
appcModeAdminRecvRuSzUpBnd OBJECT-TYPE
     SYNTAX Integer32
     MAX-ACCESS read-only
     STATUS current
      DESCRIPTION
          "Specifies the upper bound for the maximum receive RU
           (Request Unit) size of normal-flow requests. This is used
           for negotiation during session activations (SNA BIND). "
      ::= { appcModeAdminEntry 14 }
appcModeAdminSendRuSzUpBnd OBJECT-TYPE
     SYNTAX Integer32
     MAX-ACCESS read-only
      STATUS current
     DESCRIPTION
          "Specifies the upper bound for the maximum send RU (Request
          Unit) size of normal-flow requests. This is used for
          negotiation during session activations (SNA BIND).
      ::= { appcModeAdminEntry 15 }
appcModeAdminRecvRuSzLoBnd OBJECT-TYPE
      SYNTAX Integer32
     MAX-ACCESS read-only
     STATUS current
      DESCRIPTION
          "Specifies the lower bound for the maximum receive RU (Request
```

```
Unit) size of normal-flow requests. This is used for
         negotiation during session activations (SNA BIND). "
      ::= { appcModeAdminEntry 16 }
appcModeAdminSendRuSzLoBnd OBJECT-TYPE
     SYNTAX Integer32
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies the lower bound for the maximum send RU (Request
         Unit) size of normal-flow requests. This is used for
          negotiation during session activations (SNA BIND).
      ::= { appcModeAdminEntry 17 }
appcModeAdminSingSessReinit OBJECT-TYPE
     SYNTAX INTEGER {
                     notApplicable(1),
                      operatorControlled(2),
                      primaryOnly(3),
                     secondaryOnly(4),
                     primaryOrSecondary(5)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies the responsibility for session reinitiation of a
          single session with the partner LU (when the session goes
         down). The local LU uses this parameter to specify the session
         reinitiation responsibility in session activation (SNA BIND)
         requests and responses.
                notApplicable
                                   - specifies that this parameter has
                                     no meaning since the value of
                                     appcLuPairAdminParaSessSup is yes.
                                     The field in the SNA BIND is
                                     reserved (set to zero).
                operatorControlled - specifies that neither LU will
                                     automatically attempt to reinitiate
                                     the session. The operator on either
                                     side will manually reactivate the
                                     session. A contention race (both
                                     side reinitiating at the same time)
                                     is won by the LU with the
                                     lexicographically greater fully-
                                     qualified LU name.
                                  - specifies that the primary LU will
                primaryOnly
```

```
automatically attempt to reinitiate
                                     the session.
                secondaryOnly
                                   - specifies that the secondary LU will
                                     automatically attempt to reinitiate
                                     the session.
                primaryOrSecondary - specifies that either the primary or
                                     the secondary may automatically
                                     attempt to reinitiate the session.
                                     A contention race is handled the
                                     same way as with operatorControlled.
      ::= { appcModeAdminEntry 18 }
appcModeAdminCompression OBJECT-TYPE
     SYNTAX INTEGER {
                     prohibited(1),
                     required(2),
                     negotiable(3)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies whether compression is supported. The local LU uses
          this value for negotiation during session activation (SNA
         BIND).
             prohibited - specifies that no compression is to be used.
             required - specifies that compression is required.
             negotiable - specifies that the usage of compression
                            is to be negotiated between the LUs. The
                             level of compression is also negotiated."
      ::= { appcModeAdminEntry 19 }
appcModeAdminInBoundCompLevel OBJECT-TYPE
     SYNTAX INTEGER {
                     none(1),
                     rle(2),
                     1z9(3),
                     lz10(4),
                     lz12(5)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies the maximum level of compression supported for
          inbound data. The local LU uses this value in conjunction with
         appcModeAdminCompression for negotiation during session
```

```
activation (SNA BIND).
```

```
    none - specifies that no compression is to be used.
    rle - specifies run-length encoding compression
        in which a 1 or 2 byte sequence substitution is
        used for each repeated run of the same character.
```

1z9 - specifies Lempel-Ziv-like compression in which
9 bit codes are used to substitute repeated
substrings in the data stream. These codes are
indices that refer to entries in a common
dictionary generated adaptively at both sender and
receiver as the data flows and compression occurs.
The larger of number bits used for the code, the
more storage space is required for the dictionary,
but the larger the compression ratio.

1z10 - specifies a 10 bit code Lempel-Ziv-like compression.
1z12 - specifies a 12 bit code Lempel-Ziv-like compression."

```
::= { appcModeAdminEntry 20 }
```

```
{\tt appcModeAdminOutBoundCompLevel\ OBJECT-TYPE}
```

MAX-ACCESS read-only STATUS current DESCRIPTION

"Specifies the maximum level of compression supported for outbound data. The local LU uses this value in conjunction with appcModeAdminCompression for negotiation during session activation (SNA BIND).

none - specifies that no compression is to be used.

rle - specifies run-length encoding compression
 in which a 1 or 2 byte sequence substitution is
 used for each repeated run of the same character.

- specifies Lempel-Ziv-like compression in which
9 bit codes are used to substitute repeated
substrings in the data stream. These codes are
indices that refer to entries in a common
dictionary generated adaptively at both sender and
receiver as the data flows and compression occurs.
The larger of number bits used for the code, the
more storage space is required for the dictionary,

```
but the larger the compression ratio.
              1z10 - specifies a 10 bit code Lempel-Ziv-like compression.
              lz12 - specifies a 12 bit code Lempel-Ziv-like compression."
      ::= { appcModeAdminEntry 21 }
appcModeAdminCompRleBeforeLZ OBJECT-TYPE
      SYNTAX INTEGER {
                     no(1),
                     yes(2)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies whether run-length encoding is to be applied to the
          data before applying Lempel-Ziv-like compression. The local LU
          uses this value for negotiation during session activation (SNA
         BIND). This parameter is only supported if LZ compression is
         used."
      ::= { appcModeAdminEntry 22 }
appcModeAdminSyncLvl OBJECT-TYPE
     SYNTAX INTEGER {
                      none(1),
                     noneConfirm(2),
                     noneConfirmSyncPoint(3)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the sync level support. This value is used for
          negotiation during session activations (SNA BIND).
                                     - No sync level is supported.
                none
               noneConfirm
                                     - None and Confirm levels supported.
               noneConfirmSyncPoint - None, Confirm, and Sync Point is
                                       supported.
      ::= { appcModeAdminEntry 23 }
appcModeAdminCrypto OBJECT-TYPE
      SYNTAX INTEGER {
                     notSupported(1),
                     mandatory(2),
                     selective(3)
```

```
MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
         "Specifies whether session-level cryptography is supported.
          This value is used for negotiation during session activations
          (SNA BIND).
              notSupported - Specifies session-level cryptography
                                 is not to be used.
              mandatory
                                 Specifies session-level cryptography
                                 must be used.
                             - Specifies session-level cryptography
               selective
                                 is required just on selected requests
                                 flowing on the sessions."
     ::= { appcModeAdminEntry 24 }
__ *********************
     APPC Mode Oper Table
     Objects in this table contain current operational values, such
     as state values or negotiated parameters, for session modes.
__ *********************************
appcModeOperTable OBJECT-TYPE
     SYNTAX SEQUENCE OF AppcModeOperEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "Operational APPC Mode Information. Two entries are present in
         the table when both LUs in a pair are local."
     ::= { appcLu 6 }
appcModeOperEntry OBJECT-TYPE
     SYNTAX AppcModeOperEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "Entry of APPC mode operational information table. This entry
         does not augment the appcModeAdminEntry, but reflects an actual
         operational mode for a given local LU - partner LU pair."
     INDEX { appcModeOperLocLuName,
             appcModeOperParLuName,
             appcModeOperModeName }
     ::= { appcModeOperTable 1 }
```

```
AppcModeOperEntry ::= SEQUENCE {
   appcModeOperLocLuName
                                   DisplayString,
   appcModeOperParLuName
                                  DisplayString,
   appcModeOperModeName
                                  DisplayString,
                                  DisplayString,
  appcModeOperCosName
   appcModeOperSessEndTpName
                                  DisplayString,
   appcModeOperSessLimit
                                   Integer32,
                                  Integer32,
  appcModeOperMaxSessLimit
  appcModeOperMinCwinLimit
                                  Integer32,
  appcModeOperMinClosLimit
                                  Integer32,
  appcModeOperConWinAutoActLmt
                                  Integer32,
  appcModeOperRecvPacWinSz
                                  Integer32,
  appcModeOperSendPacWinSz
                                  Integer32,
  appcModeOperPrefRecvRuSz
                                  Integer32,
  appcModeOperPrefSendRuSz
                                   Integer32,
  appcModeOperRecvRuSzUpBnd
                                   Integer32,
  appcModeOperSendRuSzUpBnd
                                  Integer32,
  appcModeOperRecvRuSzLoBnd
                                  Integer32,
   appcModeOperSendRuSzLoBnd
                                  Integer32,
  appcModeOperSingSessReinit
                                  INTEGER,
  appcModeOperCompression
                                  INTEGER,
   appcModeOperInBoundCompLevel
                                 INTEGER,
   appcModeOperOutBoundCompLevel
                                  INTEGER,
  appcModeOperCompRleBeforeLZ
                                   INTEGER,
  appcModeOperSyncLvl
                                   INTEGER,
                                  INTEGER,
  appcModeOperCrypto
  appcModeOperSyncLvlLastStart
                                  INTEGER,
  appcModeOperCryptoLastStart
                                  INTEGER,
  appcModeOperCNOSNeg
                                  INTEGER,
  appcModeOperActCwin
                                  Gauge32,
  appcModeOperActClos
                                   Gauge32,
  appcModeOperPndCwin
                                   Gauge32,
  appcModeOperPndClos
                                  Gauge32,
  appcModeOperPtmCwin
                                 Gauge32,
  appcModeOperPtmClos
                                 Gauge32,
   appcModeOperDrainSelf
                                  INTEGER,
   appcModeOperDrainPart
                                  INTEGER
```

```
appcModeOperLocLuName OBJECT-TYPE
SYNTAX DisplayString (SIZE (1..17))
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
```

"The SNA name of the local LU. This field is from 1 to 17 characters in length, including a period (.) which separates the NetId from the NAU name if the NetId is present.

```
If this object has the same value as appcLluOperName,
          then the two entries being indexed apply to the same
          resource (specifically, to the same local LU)."
      ::= { appcModeOperEntry 1 }
appcModeOperParLuName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..17))
     MAX-ACCESS not-accessible
      STATUS current
     DESCRIPTION
          "The SNA name of the partner LU. This field is from 1 to 17
          characters in length, including a period (.) which separates
          the NetId from the NAU name if the NetId is present.
          If this object has the same value as appcLuPairOperParLuName,
          then the two entries being indexed apply to the same
          resource (specifically, to the same partner LU)."
      ::= { appcModeOperEntry 2 }
appcModeOperModeName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..8))
     MAX-ACCESS not-accessible
      STATUS current
     DESCRIPTION
          "Specifies the mode name. A mode defines the characteristics
           for a group of sessions. The mode name can be blank (8
           space characters). "
      ::= { appcModeOperEntry 3 }
appcModeOperCosName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (0..8))
     MAX-ACCESS read-only
      STATUS current
     DESCRIPTION
          "Specifies the class of service (COS) name associated with
           this mode. If the implementation does not support COS names,
           a zero-length string is returned."
      ::= { appcModeOperEntry 4 }
appcModeOperSessEndTpName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..64))
     MAX-ACCESS read-only
      STATUS current
     DESCRIPTION
```

"Specifies the name of the transaction program (TP) to be invoked when a session using this mode is deactivated or ended. If the name is NULL, no transaction program is invoked. When the TP name consists entirely of displayable EBCDIC code points, it is mapped directly to the equivalent ASCII display string. However, registered TP names always have a non-displayable EBCDIC code point (value less than or equal to x'3F') as the first character, so they cannot be directly mapped to an ASCII display string. These TP names are converted to a display string that is equivalent to a hexadecimal display of the EBCDIC code points. For example, the 2-byte TP name x'06F1' (CNOS) is converted to the 6-byte ASCII display string '06F1' (including the two single quotes)."

::= { appcModeOperEntry 5 }

appcModeOperSessLimit OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Specifies the current session limit of this mode as negotiated through APPC CNOS (Change Number of Sessions) processing. Identifies the total number of sessions that can be established between the local and partner LU using this mode."

::= { appcModeOperEntry 6 }

appcModeOperMaxSessLimit OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Specifies the maximum value that the local LU is to use, during CNOS processing, for the session limit. The local LU, as a target LU, will negotiate a higher session limit it receives in the CNOS request down to this maximum value. The local LU, as a source LU, will restrict the session limit it sends in a CNOS request to a value less than or equal to this maximum value."

::= { appcModeOperEntry 7 }

appcModeOperMinCwinLimit OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

```
"Specifies the minimum contention winner sessions limit that
          was negotiated via CNOS processing."
      ::= { appcModeOperEntry 8 }
appcModeOperMinClosLimit OBJECT-TYPE
     SYNTAX Integer32
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies the minimum contention loser sessions limit that
          was negotiated via CNOS processing. This is the same as
           target minimum contention winner sessions."
      ::= { appcModeOperEntry 9 }
appcModeOperConWinAutoActLmt OBJECT-TYPE
     SYNTAX Integer32
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies the limit on the number of contention winner sessions
          to be automatically activated when the minimum number of
          contention winner sessions increases (as a result of CNOS
         processing). The actual number of sessions activated is the
          lesser of this value and the new minimum number of contention
         winner sessions. "
      ::= { appcModeOperEntry 10 }
appcModeOperRecvPacWinSz OBJECT-TYPE
     SYNTAX Integer32
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies the size of the receive pacing window. This value is
          used for negotiation during session activations (SNA BIND).
          The meaning of this value when set to 0 depends on whether
          adaptive pacing is supported:
              adaptive pacing - No limit on window size
              fixed pacing
                                    No pacing is supported"
      ::= { appcModeOperEntry 11 }
appcModeOperSendPacWinSz OBJECT-TYPE
     SYNTAX Integer32
     MAX-ACCESS read-only
```

```
STATUS current DESCRIPTION
```

"Specifies the size of the send pacing window. This value is used for negotiation during session activations (SNA BIND).

The meaning of this value when set to 0 depends on whether adaptive pacing is supported:

adaptive pacing No limit on window size fixed pacing No pacing is supported"

::= { appcModeOperEntry 12 }

appcModeOperPrefRecvRuSz OBJECT-TYPE
 SYNTAX Integer32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION

"Specifies the preferred receive RU (Request Unit) size of normal-flow requests on the sessions. This value must be less than or equal to the value specified in appcModeOperRecvRuSzUpBnd and greater than or equal to the value specified in appcModeOperRecvRuSzLoBnd.

The local LU specifies this value for the receive maximum RU size in session activation (SNA BIND) requests and responses. It will allow negotiation up to the appcModeOperRecvRuSzUpBnd value or down to the appcModeOperRecvRuSzLoBnd value."

::= { appcModeOperEntry 13 }

appcModeOperPrefSendRuSz OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"Specifies the preferred send RU (Request Unit) size of normal-flow requests on the sessions. This value must be less than or equal to the value specified in appcModeOperSendRuSzUpBnd and greater than or equal to the value specified in appcModeOperSendRuSzLoBnd.

The local LU specifies this value for the send maximum RU size in session activation (SNA BIND) requests and responses. It will allow negotiation up to the appcModeOperSendRuSzUpBnd value or down to the appcModeOperSendRuSzLoBnd value."

::= { appcModeOperEntry 14 }

```
appcModeOperRecvRuSzUpBnd OBJECT-TYPE
      SYNTAX Integer32
     MAX-ACCESS read-only
      STATUS current
     DESCRIPTION
          "Specifies the upper bound for the maximum receive RU
           (Request Unit) size of normal-flow requests. This is used
           for negotiation during session activations (SNA BIND). "
      ::= { appcModeOperEntry 15 }
appcModeOperSendRuSzUpBnd OBJECT-TYPE
      SYNTAX Integer32
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the upper bound for the maximum send RU (Request
          Unit) size of normal-flow requests. This is used for
          negotiation during session activations (SNA BIND). "
      ::= { appcModeOperEntry 16 }
appcModeOperRecvRuSzLoBnd OBJECT-TYPE
      SYNTAX Integer32
     MAX-ACCESS read-only
      STATUS current
     DESCRIPTION
          "Specifies the lower bound for the maximum receive RU
           (Request Unit) size of normal-flow requests. This is used
           for negotiation during session activations (SNA BIND). "
      ::= { appcModeOperEntry 17 }
appcModeOperSendRuSzLoBnd OBJECT-TYPE
     SYNTAX Integer32
     MAX-ACCESS read-only
     STATUS current
      DESCRIPTION
          "Specifies the lower bound for the maximum send RU
           (Request Unit) size of normal-flow requests. This is used
           for negotiation during session activations (SNA BIND). "
      ::= { appcModeOperEntry 18 }
appcModeOperSingSessReinit OBJECT-TYPE
      SYNTAX INTEGER {
                      notApplicable(1),
                      operatorControlled(2),
```

primaryOnly(3),

```
secondaryOnly(4),
                     primaryOrSecondary(5)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies the responsibility for session reinitiation of a
          single session with the partner LU (when the session goes
         down). The local LU uses this parameter to specify the session
         reinitiation responsibility in session activation (SNA BIND)
          requests and responses.
                                   - specifies that this parameter has
                notApplicable
                                     no meaning since the value of
                                     appcLuPairOperParaSessSup is yes.
                                     The field in the SNA BIND is
                                     reserved (set to zero).
                operatorControlled - specifies that neither LU will
                                     automatically attempt to reinitiate
                                     the session. The operator on either
                                     side will manually reactivate the
                                     session. A contention race (both
                                     side reinitiating at the same time)
                                     is won by the LU with the
                                     lexicographically greater fully-
                                     qualified LU name.
                primaryOnly
                                   - specifies that the primary LU will
                                    automatically attempt to reinitiate
                                     the session.
                                   - specifies that the secondary LU will
                secondaryOnly
                                     automatically attempt to reinitiate
                                     the session.
               primaryOrSecondary - specifies that either the primary or
                                     the secondary may automatically
                                     attempt to reinitiate the session.
                                     A contention race is handled the
                                     same way as with operatorControlled.
      ::= { appcModeOperEntry 19 }
appcModeOperCompression OBJECT-TYPE
     SYNTAX INTEGER {
                     prohibited(1),
                     required(2),
                     negotiable(3)
     MAX-ACCESS read-only
```

[Page 62]

```
STATUS current
     DESCRIPTION
          "Specifies whether compression is supported. The local LU uses
          this value for negotiation during session activation (SNA
         BIND).
             prohibited - specifies that no compression is to be used.
                         - specifies that compression is required.
             negotiable - specifies that the usage of compression
                            is to be negotiated between the LUs. The
                            level of compression is also negotiated."
      ::= { appcModeOperEntry 20 }
appcModeOperInBoundCompLevel OBJECT-TYPE
     SYNTAX INTEGER {
                     none(1),
                     rle(2),
                     lz9(3),
                     lz10(4),
                     1z12(5)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies the maximum level of compression supported for
          inbound data. The local LU uses this value in conjunction with
          appcModeOperCompression for negotiation during session
          activation (SNA BIND).
             none - specifies that no compression is to be used.
                    - specifies run-length encoding compression
             rle
                       in which a 1 or 2 byte sequence substitution is
                      used for each repeated run of the same character.
             1z9
                   - specifies Lempel-Ziv-like compression in which
                      9 bit codes are used to substitute repeated
                       substrings in the data stream. These codes are
                       indices that refer to entries in a common
                      dictionary generated adaptively at both sender and
                      receiver as the data flows and compression occurs.
                      The larger of number bits used for the code, the
                      more storage space is required for the dictionary,
                      but the larger the compression ratio.
              lz10 - specifies a 10 bit code Lempel-Ziv-like compression.
              lz12 - specifies a 12 bit code Lempel-Ziv-like compression."
```

::= { appcModeOperEntry 21 }

```
appcModeOperOutBoundCompLevel OBJECT-TYPE
      SYNTAX INTEGER {
                     none(1),
                     rle(2),
                     1z9(3),
                      lz10(4),
                      1z12(5)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the maximum level of compression supported for
          outbound data. The local LU uses this value in conjunction
          with appcModeOperCompression for negotiation during session
          activation (SNA BIND).
              none - specifies that no compression is to be used.
              rle - specifies run-length encoding compression
                      in which a 1 or 2 byte sequence substitution is
                      used for each repeated run of the same character.
              lz9
                    - specifies Lempel-Ziv-like compression in which
                      9 bit codes are used to substitute repeated
                       substrings in the data stream. These codes are
                       indices that refer to entries in a common
                       dictionary generated adaptively at both sender and
                       receiver as the data flows and compression occurs.
                       The larger of number bits used for the code, the
                       more storage space is required for the dictionary,
                      but the larger the compression ratio.
              lz10 - specifies a 10 bit code Lempel-Ziv-like compression.
              lz12 - specifies a 12 bit code Lempel-Ziv-like compression."
      ::= { appcModeOperEntry 22 }
appcModeOperCompRleBeforeLZ OBJECT-TYPE
      SYNTAX INTEGER {
                     no(1),
                     yes(2)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies whether run-length encoding is to be applied to the
          data before applying Lempel-Ziv-like compression. The local LU
          uses this value for negotiation during session activation (SNA
          BIND). This parameter is only supported if LZ compression is
          used."
```

```
::= { appcModeOperEntry 23 }
appcModeOperSyncLvl OBJECT-TYPE
     SYNTAX INTEGER {
                     none(1),
                     noneConfirm(2),
                     noneConfirmSyncPoint(3)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies the sync level support for sessions involving this
          LU pair and mode name.
                                       No sync level is supported.
               none
                               _
               noneConfirm
                                        None and Confirm level supported.
               noneConfirmSyncPoint - None, Confirm and Sync Point is
                                               supported.
      ::= { appcModeOperEntry 24 }
appcModeOperCrypto OBJECT-TYPE
     SYNTAX INTEGER {
                     notSupported(1),
                     mandatory(2),
                     selective(3)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies whether session-level cryptography is supported for
          sessions involving this LU pair and mode name.
               notSupported -
                                   Specifies session-level cryptography
                                      is not being used.
                                   Specifies session-level cryptography
               mandatory
                                      in being used on all requests
                                      flowing on the sessions.
                                   Specifies session-level cryptography
               selective
                                      is required just on selected
                                      requests flowing on the sessions."
      ::= { appcModeOperEntry 25 }
appcModeOperSyncLvlLastStart OBJECT-TYPE
     SYNTAX INTEGER {
                     none(1),
```

```
noneConfirm(2),
                     noneConfirmSyncPoint(3)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies the sync level support. This value represents the
          initial value proposed by the local LU the last time this
          capability was negotiated, i.e., when the first session was
         bound between the local LU and its partner.
                                       No sync level is supported.
               noneConfirm
                                      None and Confirm level supported.
               noneConfirmSyncPoint - None, Confirm and Sync Point is
                                            supported.
      ::= { appcModeOperEntry 26 }
appcModeOperCryptoLastStart OBJECT-TYPE
      SYNTAX INTEGER {
                     notSupported(1),
                     mandatory(2),
                     selective(3)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies whether session-level cryptography is supported.
          This value represents the initial value proposed by the local
          LU the last time this capability was negotiated, i.e., when
          the first session was bound between the local LU and its
          partner.
               notSupported
                                    Specifies session-level cryptography
                                      is not to be used.
               mandatory
                                    Specifies session-level cryptography
                                      must be used.
                                    Specifies session-level cryptography
               selective
                                      is required just on selected
                                      requests flowing on the sessions."
      ::= { appcModeOperEntry 27 }
appcModeOperCNOSNeg OBJECT-TYPE
     SYNTAX INTEGER {
                     no(1),
                     yes(2)
```

```
MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies whether CNOS negotiation is in process. CNOS
          negotiation is used to set or change the various session limits
          for a mode."
      ::= { appcModeOperEntry 28 }
appcModeOperActCwin OBJECT-TYPE
      SYNTAX Gauge32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the number of active contention winner sessions."
      ::= { appcModeOperEntry 29 }
appcModeOperActClos OBJECT-TYPE
      SYNTAX Gauge32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the number of active contention loser sessions."
      ::= { appcModeOperEntry 30 }
appcModeOperPndCwin OBJECT-TYPE
      SYNTAX Gauge32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the number of contention winner sessions that are
           pending activation."
      ::= { appcModeOperEntry 31 }
appcModeOperPndClos OBJECT-TYPE
      SYNTAX Gauge32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the number of contention loser sessions that are
           pending activation."
      ::= { appcModeOperEntry 32 }
appcModeOperPtmCwin OBJECT-TYPE
```

[Page 67]

```
SYNTAX Gauge32
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the number of contention winner sessions that are
           pending termination."
      ::= { appcModeOperEntry 33 }
appcModeOperPtmClos OBJECT-TYPE
     SYNTAX Gauge32
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "Specifies the number of contention loser sessions that are
          pending termination."
      ::= { appcModeOperEntry 34 }
appcModeOperDrainSelf OBJECT-TYPE
      SYNTAX INTEGER {
                     no(1),
                      yes(2)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies whether the local LU is draining its conversations
         for this mode. When a mode session limit is reset (via a CNOS
         RESET_SESSION_LIMIT request), the local LU could be set to
         process all queued conversations before deactivating all of the
          sessions (using the SNA Bracket Initiation Stopped or BIS
         protocol). "
      ::= { appcModeOperEntry 35 }
appcModeOperDrainPart OBJECT-TYPE
      SYNTAX INTEGER {
                     no(1),
                      yes(2)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies whether the partner LU is draining its conversations
          for this mode. When a mode session limit is reset (via a CNOS
         RESET_SESSION_LIMIT request), the partner LU could be set to
         process all queued conversations before deactivating all of the
```

```
sessions (using the SNA Bracket Initiation Stop or BIS
                          protocol). "
                ::= { appcModeOperEntry 36 }
__ ***********************************
               APPC TP Admin Table
               Objects in this table contain default or expected configuration
               values for remotely attachable transaction programs.
__ ***********************************
appcTpAdminTable OBJECT-TYPE
               SYNTAX SEQUENCE OF AppcTpAdminEntry
               MAX-ACCESS not-accessible
               STATUS current
               DESCRIPTION
                           "APPC Local TP Table"
                ::= { appcTp 1 }
appcTpAdminEntry OBJECT-TYPE
               SYNTAX AppcTpAdminEntry
               MAX-ACCESS not-accessible
               STATUS current
               DESCRIPTION
                           "Entry of APPC Local TP Information Table."
                INDEX { appcTpAdminLocLuName,
                                     appcTpAdminTpName }
                ::= { appcTpAdminTable 1 }
AppcTpAdminEntry ::= SEQUENCE {
                 appcTpAdminFileSpec DisplayString, appcTpAdminStartParm appcTpAdminInAttachTimes appcTpAdminInAt
                  appcTpAdminRcvAllocTimeout Integer32,
                  appcTpAdminSyncLvl INTEGER,
                                                                                      Integer32,
                  appcTpAdminInstLmt
                  appcTpAdminStatus
                                                                                        INTEGER,
                                                                                       INTEGER,
                  appcTpAdminLongRun
                  appcTpAdminConvType
                                                                                       INTEGER,
                                                                                     INTEGER,
INTEGER,
                  appcTpAdminConvDuplex
                  appcTpAdminConvSecReq
                  appcTpAdminVerPip
                                                                                       INTEGER,
                  appcTpAdminPipSubNum
                                                                                        Integer32
```

```
}
appcTpAdminLocLuName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..17))
     MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
          "The SNA name of the local LU to which this TP definition
          applies. This field is from 1 to 17 characters in length,
          including a period (.) which separates the NetId from the NAU
          name if the NetId is present.
          The reserved value '*ALL' indicates that the TP definition
          applies to all local LUs, and not just to a single local LU."
      ::= { appcTpAdminEntry 1 }
appcTpAdminTpName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..64))
     MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
          "The local transaction program name. This name is sent on an
          ATTACH remote allocation request.
          When the TP name consists entirely of displayable EBCDIC
          code points, it is mapped directly to the equivalent ASCII
          display string. However, registered TP names always have a
          non-displayable EBCDIC code point (value less than or equal to
          x'3F') as the first character, so they cannot be directly
          mapped to an ASCII display string. These TP names are
          converted to a display string that is equivalent to a
          hexadecimal display of the EBCDIC code points. For example,
          the 2-byte TP name x'06F1' (CNOS) is converted to the 6-byte
          ASCII display string '06F1' (including the two single quotes)."
      ::= { appcTpAdminEntry 2 }
appcTpAdminFileSpec OBJECT-TYPE
      SYNTAX DisplayString (SIZE (0..80))
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The local file specification of the transaction program.
         May be a zero-length string if not applicable."
      ::= { appcTpAdminEntry 3 }
```

```
appcTpAdminStartParm OBJECT-TYPE
      SYNTAX DisplayString (SIZE (0..128))
     MAX-ACCESS read-only
      STATUS current
     DESCRIPTION
          "A parameter string passed to the transaction program when it
           is started. May be a zero-length string if not supported. "
      ::= { appcTpAdminEntry 4 }
appcTpAdminTpOperation OBJECT-TYPE
      SYNTAX INTEGER {
                      other(1),
                      queuedOperatorStarted(2),
                      queuedOperatorPreloaded(3),
                      queuedAmStarted(4),
                      nonqueuedAmStarted(5)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies how the program will be started.
              other - Specifies that the program operation is none of
                      the methods specified. It may be a
                      product-specific method.
              queuedOperatorStarted - Specifies that one version of the
                      program will be run at a time. If an incoming
```

queued.

queuedOperatorPreloaded - Specifies that one version of the program will be run at a time. If an incoming attach arrives and the program has not been started yet, the Attach will be rejected. The APPC attach manager determines that a TP has started upon reception of an APPC RECEIVE_ALLOCATE verb, or a CPI-C Accept_Conversation (CMACCP) or Specify_Local_TP_Name (CMSLTP) call. No message is

sent to the operator. Subsequent attaches that arrive while the program is active are queued.

attach arrives and the program has not been started yet, APPC will issue a message to the operator to start the specified program. Subsequent attaches that arrive while the program is active will be

queuedAmStarted - Specifies that one version of the program will be run at a time and will be started by the APPC attach manager. Subsequent attaches

```
that arrive while the program is active will be queued.
```

nonqueuedAmStarted - Specifies that multiple copies of the
 program will be run at a time and will be started
 by the APPC attach manager."

```
::= { appcTpAdminEntry 5 }
appcTpAdminInAttachTimeout OBJECT-TYPE
     SYNTAX Integer32
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "This object specifies the number of seconds incoming attaches
          will be gueued waiting for an APPC program to issue a
          RECEIVE_ALLOCATE verb or for a CPI-C program to issue an
          Accept_Conversation (CMACCP) call. This parameter is
          meaningful only when appcTpAdminTpOperation has one of the
          following values:
                     queuedOperatorStarted
                     queuedOperatorPreloaded
                     queuedAmStarted
          A value of zero indicates that there is no timeout."
      ::= { appcTpAdminEntry 6 }
appcTpAdminRcvAllocTimeout OBJECT-TYPE
     SYNTAX Integer32
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "This object specifies the number of seconds an APPC program's
          RECEIVE_ALLOCATE verb or a CPI-C program's Accept_Conversation
          (CMACCP) call will wait for an incoming attach to arrive.
          A value of zero indicates that there is no timeout."
      ::= { appcTpAdminEntry 7 }
appcTpAdminSyncLvl OBJECT-TYPE
     SYNTAX INTEGER {
                      none(1),
                      confirm(2),
                      noneAndConfirm(3),
                      syncpoint(4),
                      noneAndSyncpoint(5),
```

```
confirmAndSyncpoint(6),
                     all(7)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Indicates the synchronization level or levels that the
          transaction program supports. The levels are defined as
          follows:
                        - allocation requests indicating a
               none
                          synchronization level of none are allowed to
                          start the program.
               confirm - allocation requests indicating a
                           synchronization level of confirm are allowed
                           to start the program.
               syncpoint - allocation requests indicating a
                           synchronization level of sync point are
                           allowed to start the program."
      ::= { appcTpAdminEntry 8 }
appcTpAdminInstLmt OBJECT-TYPE
     SYNTAX Integer32
     MAX-ACCESS read-only
      STATUS current
     DESCRIPTION
          "The maximum number of concurrent instances of this transaction
          program that will be supported for a local LU. A value of
           zero indicates that there is no limit."
      ::= { appcTpAdminEntry 9 }
appcTpAdminStatus OBJECT-TYPE
     SYNTAX INTEGER {
                      enabled(1),
                     tempDisabled(2),
                     permDisabled(3)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Indicates the status of the TP relative to starting execution
          when the local LU receives an allocation (ATTACH) request
          naming this program.
                                   the local LU can start the program.
                enabled
                tempDisabled - the local LU cannot start the
```

```
program. The local LU rejects the
                                     request with an indication that the
                                     TP is not available but retry is
                                     possible.
                permDisabled
                                     the local LU cannot start the
                                     program. The local LU rejects the
                                     request with an indication that the
                                     TP is not available and retry is
                                     not possible."
      ::= { appcTpAdminEntry 10 }
appcTpAdminLongRun OBJECT-TYPE
      SYNTAX INTEGER {
                      no(1),
                      yes(2)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Indicates whether this is a long-running transaction program
          (i.e., one that stays around even after the conversation goes
          away)."
      ::= { appcTpAdminEntry 11 }
appcTpAdminConvType OBJECT-TYPE
      SYNTAX INTEGER {
                      basic(1),
                      mapped(2),
                      basicOrMapped(3)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the conversation type (basic or mapped) that will be
          used by the TP. This value is verified upon receipt of an
          incoming attach. The acceptable values are:
                               - Indicates that this transaction program
                 basic
                                 supports basic conversations.
                               - Indicates that this transaction program
                 mapped
                                 supports mapped conversations.
                 basicOrMapped - Indicates that this transaction program
                                 supports both basic and mapped
                                 conversations."
```

```
::= { appcTpAdminEntry 12 }
appcTpAdminConvDuplex OBJECT-TYPE
      SYNTAX INTEGER {
                     half(1),
                      full(2),
                      halfOrFull(3)
     MAX-ACCESS read-only
      STATUS current
     DESCRIPTION
          "Specifies the conversation duplex type (half or full) that
         will be used by the TP. This value is verified upon receipt of
          an incoming attach. The acceptable values are:
                 half
                            - Indicates that this transaction program
                              supports half duplex conversations.
                 full
                            - Indicates that this transaction program
                              supports full duplex conversations.
                halfOrFull - Indicates that this transaction program
                              supports either half or full duplex
                              conversations."
      ::= { appcTpAdminEntry 13 }
appcTpAdminConvSecReq OBJECT-TYPE
      SYNTAX INTEGER {
                     no(1),
                     yes(2)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Indicates whether conversation-level security information is
         required on incoming attaches designating this TP name.
         Conversation-level security verification is always performed on
          those requests that include security information.
                yes - Indicates that conversation-level security
                       information is required. ATTACHs designating the
                       transaction program must carry a user_id and
                       either a password or an already verified
                       indicator.
                no - Indicates that no security information is
                       required. ATTACHs designating the transaction
```

```
program can omit or include security information."
     ::= { appcTpAdminEntry 14 }
appcTpAdminVerPip OBJECT-TYPE
     SYNTAX INTEGER {
                   no(1),
                   yes(2)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
         "Specifies whether the number of PIP (Program Initialization
         Parameters) subfields should be verified against the number
         expected (appcTpAdminPipSubNum)."
     ::= { appcTpAdminEntry 15 }
appcTpAdminPipSubNum OBJECT-TYPE
     SYNTAX Integer32
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
         "Specifies the number of PIP subfields expected by the TP."
     ::= { appcTpAdminEntry 16 }
__ *********************************
-- APPC Active Session Table
__ ______
-- This table contains information about active APPC sessions.
__ *************************
appcActSessTable OBJECT-TYPE
     SYNTAX SEQUENCE OF AppcActSessEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "Table of active APPC sessions. Two entries are present in the
         table when both session partners are local."
     ::= { appcSession 1 }
appcActSessEntry OBJECT-TYPE
     SYNTAX AppcActSessEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
```

```
"Entry of APPC Session Information Table. Indexed by LU pair
         and integer-valued session index."
      INDEX { appcActSessLocLuName,
             appcActSessParLuName,
             appcActSessIndex }
      ::= { appcActSessTable 1 }
AppcActSessEntry
                    ::= SEQUENCE {
                                     DisplayString,
     appcActSessLocLuName
     appcActSessParLuName
                                     DisplayString,
     appcActSessIndex
                                     Integer32,
     appcActSessPcidCpName
                                    DisplayString,
                                     OCTET STRING,
     appcActSessPcid
     appcActSessPluIndicator
                                     INTEGER,
     appcActSessModeName
                                     DisplayString,
                                    DisplayString,
     appcActSessCosName
     appcActSessTransPriority
                                    INTEGER,
     appcActSessEnhanceSecSup
                                    INTEGER,
                                   INTEGER,
     appcActSessSendPacingType
     appcActSessSendRpc
                                    Gauge32,
     appcActSessSendNxWndwSize Gauge32,

The CasePegyPagingType INTEGER,
                                    INTEGER,
     appcActSessRecvPacingType
     appcActSessRecvRpc
                                     Gauge32,
     appcActSessRecvNxWndwSize Gauge32,
                                     OCTET STRING,
     appcActSessRscv
     appcActSessInUse
                                    INTEGER,
     appcActSessMaxSndRuSize
                                    INTEGER,
     appcActSessMaxRcvRuSize
                                    INTEGER,
     appcActSessSndPacingSize
                                    INTEGER,
     appcActSessRcvPacingSize
                                     INTEGER,
     appcActSessOperState
                                     INTEGER,
     appcActSessUpTime
                                     TimeTicks,
     appcActSessRtpNceId
                                   OCTET STRING,
     appcActSessRtpTcid
                                    OCTET STRING,
     appcActSessLinkIndex
                                    InstancePointer
appcActSessLocLuName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..17))
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
          "Specifies the name of the local LU for the session. This
         field is from 1 to 17 characters in length, including a period
          (.) which separates the NetId from the NAU name if the NetId is
```

```
present.
```

If this object has the same value as appcLluOperName, then the two entries being indexed apply to the same resource (specifically, to the same local LU)."

```
::= { appcActSessEntry 1 }
```

appcActSessParLuName OBJECT-TYPE

SYNTAX DisplayString (SIZE (1..17))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Specifies the name of the partner LU for the session. This field is from 1 to 17 characters in length, including a period (.) which separates the NetId from the NAU name if the NetId is present.

If this object has the same value as appcLuPairOperParLuName, then the two entries being indexed apply to the same resource (specifically, to the same partner LU)."

```
::= { appcActSessEntry 2 }
```

appcActSessIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This value identifies the index of the session, which is unique for this LU pair. It is recommended that an Agent not reuse the index of a deactivated session for a significant period of time (e.g., one week)."

```
::= { appcActSessEntry 3 }
```

appcActSessPcidCpName OBJECT-TYPE

SYNTAX DisplayString (SIZE (0 | 3..17))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The network-qualified CP name of the node at which the session and PCID originated. For APPN and LEN nodes, this is either CP name of the APPN node at which the origin LU is located or the CP name of the NN serving the LEN node at which the origin LU is located. This field is from 3 to 17 characters in length, including a period (.) which separates the NetId from the NAU name. A null string indicates that the value is unknown."

```
::= { appcActSessEntry 4 }
appcActSessPcid OBJECT-TYPE
      SYNTAX OCTET STRING (SIZE (0 | 8))
     MAX-ACCESS read-only
     STATUS current
      DESCRIPTION
          "The procedure correlation identifier (PCID) of a session. It
          is an 8-octet value assigned by the control point providing
          session services for the primary LU. A null string indicates
          that the value is unknown."
      ::= { appcActSessEntry 5 }
appcActSessPluIndicator OBJECT-TYPE
      SYNTAX INTEGER {
                      localLuIsPlu(1),
                      partnerLuIsPlu(2)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Indicates which LU is the PLU for this session. For
          independent LUs, the PLU (primary LU) is the one that initiated
          the session (sent BIND), while the SLU (secondary LU) is the
          one that accepted the session initiation (received BIND).
          The 'local' LU is the one identified by appcLluOperName.
          The 'partner' LU is the one identified by
          appcLuPairOperParLuName."
      ::= { appcActSessEntry 6 }
appcActSessModeName OBJECT-TYPE
     SYNTAX DisplayString (SIZE (1..8))
     MAX-ACCESS read-only
      STATUS current
     DESCRIPTION
          "The mode name used for this session."
      ::= { appcActSessEntry 7 }
appcActSessCosName OBJECT-TYPE
     SYNTAX DisplayString (SIZE (0..8))
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
```

```
"The Class of Service (COS) name used for this session.
          A null string indicates that the value is unknown."
      ::= { appcActSessEntry 8 }
appcActSessTransPriority OBJECT-TYPE
      SYNTAX INTEGER {
                      unknown(1),
                      low(2),
                      medium(3),
                      high(4),
                      network(5)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The transmission priority of this session.
              1 = unknown priority
              2 = low priority
              3 = medium priority
              4 = high priority
              5 = network priority
      ::= { appcActSessEntry 9 }
appcActSessEnhanceSecSup OBJECT-TYPE
      SYNTAX INTEGER {
                      none(1),
                      level1(2),
                      level2(3)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Enhanced security supported. Indicates the level of enhanced
          security support:
             1 = none
             2 = level 1
             3 = level 2
      ::= { appcActSessEntry 10 }
appcActSessSendPacingType OBJECT-TYPE
      SYNTAX INTEGER {
                      none(1),
```

```
fixed(2),
                      adaptive(3)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The type of pacing being used for sending data."
      ::= { appcActSessEntry 11 }
appcActSessSendRpc OBJECT-TYPE
      SYNTAX Gauge32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The send residual pace count. This represents the number of
          MUs that can still be sent in the current session window."
      ::= { appcActSessEntry 12 }
appcActSessSendNxWndwSize OBJECT-TYPE
     SYNTAX Gauge32
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The size of the next window which will be used to send data."
      ::= { appcActSessEntry 13 }
appcActSessRecvPacingType OBJECT-TYPE
      SYNTAX INTEGER {
                      none(1),
                      fixed(2),
                      adaptive(3)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The type of pacing being used for receiving data."
      ::= { appcActSessEntry 14 }
appcActSessRecvRpc OBJECT-TYPE
      SYNTAX Gauge32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The receive residual pace count. This represents the number
```

```
of MUs that can still be received in the current session
          window."
      ::= { appcActSessEntry 15 }
appcActSessRecvNxWndwSize OBJECT-TYPE
      SYNTAX Gauge32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The size of the next window which will be used to receive
      ::= { appcActSessEntry 16 }
appcActSessRscv OBJECT-TYPE
      SYNTAX OCTET STRING (SIZE (0..255))
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The route selection control vector (RSCV CV2B) used for this
          session. It is present for APPN-level implementations.
         LEN-level implementations will return a null string. The
          internal format of this vector is described in SNA Formats.
          This object contains an uninterpreted copy of the control
          vector (including the length and key fields)."
      ::= { appcActSessEntry 17 }
appcActSessInUse OBJECT-TYPE
      SYNTAX INTEGER {
                      no(1),
                      yes(2)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies whether the session is currently in use (i.e., in
          bracket with a conversation)."
      ::= { appcActSessEntry 18 }
appcActSessMaxSndRuSize OBJECT-TYPE
      SYNTAX INTEGER (1..8192)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The maximum RU size used on this session for sending RUs."
```

```
::= { appcActSessEntry 19 }
appcActSessMaxRcvRuSize OBJECT-TYPE
      SYNTAX INTEGER (1..8192)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The maximum RU size used on this session for receiving RUs."
      ::= { appcActSessEntry 20 }
appcActSessSndPacingSize OBJECT-TYPE
      SYNTAX INTEGER (1..63)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The size of the send pacing window on this session."
      ::= { appcActSessEntry 21 }
appcActSessRcvPacingSize OBJECT-TYPE
      SYNTAX INTEGER (1..63)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The size of the receive pacing window on this session."
      ::= { appcActSessEntry 22 }
appcActSessOperState OBJECT-TYPE
      SYNTAX INTEGER {
                      unbound (1),
                      pendingBind (2),
                      bound (3),
                      pendingUnbind (4)
      MAX-ACCESS read-write
      STATUS current
      DESCRIPTION
          "The value indicates the current operational state of the
          session.
                  'unbound (1)' - session has been unbound;
                        in this state it will be removed from the
                        session table by the Agent.
                  'pendingBind (2)' - this state has different
                        meanings for dependent and independent LUs;
```

for dependent LU - waiting for BIND from the host, for independent LU - waiting for BIND response. When a session enters this state, the corresponding entry in the session table is created by the Agent.

'bound (3)' - session has been successfully bound.

'pendingUnbind (4)' - session enters this state when an UNBIND is sent and before the rsp(UNBIND) is received.

Session deactivation:

If a session is in the operational state 'bound (3)' then setting the value of this object to 'unbound (1)' will initiate the session shutdown.

If a session is in the operational state 'pendingBind (2)' then setting the value of this object to 'unbound (1)' will initiate the session shutdown.

If a session is in the operational state 'pendingUnbind (4)' for an abnormally long period of time (e.g., three minutes) then setting the value of this object to 'unbound (1)' will change the session operational state to 'unbound (1)'. "

```
::= { appcActSessEntry 23 }
appcActSessUpTime OBJECT-TYPE
    SYNTAX TimeTicks
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The length of time the session has been active, measured in hundredths of a second."

::= { appcActSessEntry 24 }
appcActSessRtpNceId OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..8))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The local HPR Network Connection Endpoint of the session."
```

```
::= { appcActSessEntry 25 }
appcActSessRtpTcid OBJECT-TYPE
     SYNTAX OCTET STRING (SIZE (0 | 8))
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
         "The local RTP connection TCID of the session."
     ::= { appcActSessEntry 26 }
appcActSessLinkIndex OBJECT-TYPE
     SYNTAX InstancePointer
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
         "This value identifies the link over which the session passes.
         This value points to the row in the table containing
         information on the link instance. (e.g., the sdlcLSAdminTable
         of the SNA DLC MIB module). This object may be NULL if the
         link is not specified or if a link is not applicable (as for
         APPN-level nodes)."
     ::= { appcActSessEntry 27 }
__ *********************************
-- The following table contains session statistics for APPC sessions.
__ **********************
appcSessStatsTable OBJECT-TYPE
     SYNTAX SEQUENCE OF AppcSessStatsEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "This table contains dynamic statistical information relating
         to active APPC sessions. The entries in this table cannot be
         created by a Management Station. Two entries are present in
         the table when both session partners are local. This table is
         populated only when the value of appcCntrlOperStat is
         'active'."
     ::= { appcSession 2 }
appcSessStatsEntry OBJECT-TYPE
     SYNTAX AppcSessStatsEntry
     MAX-ACCESS not-accessible
     STATUS current
```

```
DESCRIPTION
             "Contains statistics information for an APPC session. Each
             entry is created by the Agent. Objects in this table have
             read-only access. Each session from appcActSessTable has one
             entry in this table."
        INDEX { appcSessStatsLocLuName,
                  appcSessStatsParLuName,
                  appcSessStatsSessIndex }
        ::= { appcSessStatsTable 1 }
AppcSessStatsEntry ::= SEQUENCE {
                                                    DisplayString,
          appcSessStatsLocLuName
                                                    DisplayString,
          appcSessStatsParLuName
         appcSessStatsSentFmdBytes Counter32, appcSessStatsSentNonFmdBytes Counter32, appcSessStatsRcvdFmdBytes Counter32, appcSessStatsRcvdNonFmdBytes Counter32, appcSessStatsSentFmdRus Counter32, appcSessStatsSentNonFmdRus Counter32, appcSessStatsRcvdFmdRus Counter32, appcSessStatsRcvdFmdRus Counter32, appcSessStatsRcvdNonFmdRus Counter32, appcSessStatsRcvdNonFmdRus Counter32, appcSessStatsCtrUpTime TimeTicks
          appcSessStatsSessIndex
                                                      Integer32,
appcSessStatsLocLuName OBJECT-TYPE
        SYNTAX DisplayString (SIZE (1..17))
       MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
             "Specifies the name of the local LU for the session. This
             field is from 1 to 17 characters in length, including a period
             (.) which separates the NetId from the NAU name if the NetId is
             present.
             If this object has the same value as appcLluOperName, then the
             two entries being indexed apply to the same resource
             (specifically, to the same local LU)."
        ::= { appcSessStatsEntry 1 }
appcSessStatsParLuName OBJECT-TYPE
        SYNTAX DisplayString (SIZE (1..17))
       MAX-ACCESS not-accessible
        STATUS current
       DESCRIPTION
```

```
"Specifies the name of the partner LU for the session. This field is from 1 to 17 characters in length, including a period (.) which separates the NetId from the NAU name if the NetId is present.
```

If this object has the same value as appcLuPairOperParLuName, then the two entries being indexed apply to the same resource (specifically, to the same partner LU)."

```
::= { appcSessStatsEntry 2 }
appcSessStatsSessIndex OBJECT-TYPE
     SYNTAX Integer32
     MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
          "This value identifies the index of the session, which is
          unique for this LU pair. It is recommended that an Agent not
          reuse the index of a deactivated session for a significant
          period of time (e.g., one week).
          If this object has the same value as appcActSessIndex for the
          same LU pair, then the two entries being indexed apply to the
          same resource (specifically, to the same session)."
      ::= { appcSessStatsEntry 3 }
appcSessStatsSentFmdBytes OBJECT-TYPE
     SYNTAX Counter32
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "The number of function management data (FMD) bytes sent by the
          local LU."
      ::= { appcSessStatsEntry 4 }
appcSessStatsSentNonFmdBytes OBJECT-TYPE
     SYNTAX Counter32
     MAX-ACCESS read-only
     STATUS current
      DESCRIPTION
          "The number of non-function management data (non-FMD) bytes
          sent by the local LU."
      ::= { appcSessStatsEntry 5 }
appcSessStatsRcvdFmdBytes OBJECT-TYPE
```

```
SYNTAX Counter32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The number of function management data (FMD) bytes received by
          the local LU."
      ::= { appcSessStatsEntry 6 }
appcSessStatsRcvdNonFmdBytes OBJECT-TYPE
      SYNTAX Counter32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The number of non-function management data (non-FMD) bytes
          received by the local LU."
      ::= { appcSessStatsEntry 7 }
appcSessStatsSentFmdRus OBJECT-TYPE
      SYNTAX Counter32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The number of function management data (FMD) RUs sent by the
          local LU."
      ::= { appcSessStatsEntry 8 }
appcSessStatsSentNonFmdRus OBJECT-TYPE
      SYNTAX Counter32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The number of non-function management data (non-FMD) RUs sent
          by the local LU."
      ::= { appcSessStatsEntry 9 }
appcSessStatsRcvdFmdRus OBJECT-TYPE
      SYNTAX Counter32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The number of function management data (FMD) RUs received by
          the local LU."
      ::= { appcSessStatsEntry 10 }
```

```
appcSessStatsRcvdNonFmdRus OBJECT-TYPE
     SYNTAX Counter32
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
         "The number of non-function management data (non-FMD) RUs
         received by the local LU."
     ::= { appcSessStatsEntry 11 }
appcSessStatsCtrUpTime OBJECT-TYPE
     SYNTAX TimeTicks
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
         "The length of time the counters for this session have been
         active, measured in hundredths of a second."
     ::= { appcSessStatsEntry 12 }
__ **********************************
-- APPC Historical Session Table
__ ______
-- This table contains historical information about APPC sessions that
-- terminated abnormally. It is an implementation choice how long to
-- retain information on a given session.
__ ***********************************
appcHistSessTable OBJECT-TYPE
     SYNTAX SEQUENCE OF AppcHistSessEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "Table of historical information about APPC sessions that
         terminated abnormally. Two entries may be present in the table
         when both session partners are local. It is an implementation
         choice how long to retain information about a given session."
     ::= { appcSession 3 }
appcHistSessEntry OBJECT-TYPE
     SYNTAX AppcHistSessEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "Entry of APPC Session History Table. This table is indexed by
         an integer which is continuously incremented until it
         eventually wraps."
```

```
INDEX
             { appcHistSessIndex }
      ::= { appcHistSessTable 1 }
AppcHistSessEntry
                     ::= SEQUENCE {
      appcHistSessIndex INTEGER,
      appcHistSessTime
                                   DateAndTime,
                                  INTEGER,
      appcHistSessType
                                 DisplayString,
      appcHistSessLocLuName
                                 DisplayString,
      appcHistSessParLuName
      appcHistSessModeName
                                 DisplayString,
      appcHistSessUnbindType OCTET STRING, appcHistSessSenseData SnaSenseData, appcHistSessComponentId DisplayString,
      appcHistSessComponentId
      appcHistSessDetectModule DisplayString
appcHistSessIndex OBJECT-TYPE
      SYNTAX INTEGER (0..2147483647)
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
          "Table index. The value of the index begins at zero
           and is incremented up to a maximum value of 2**31-1
           (2,147,483,647) before wrapping."
      ::= { appcHistSessEntry 1 }
appcHistSessTime OBJECT-TYPE
      SYNTAX DateAndTime
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The time at which the session was either terminated or
           failed to be established."
      ::= { appcHistSessEntry 2 }
appcHistSessType OBJECT-TYPE
      SYNTAX INTEGER {
                       recvNegBindRsp(1),
                       sendNegBindRsp(2),
                       sessActRejected(3),
                       unbindSent(4),
                       unbindReceived(5)
```

```
MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Indicates the type of event that caused the entry to be made:
               recvNegBindRsp - Received a negative bind response from
                                 the partner LU.
               sendNegBindRsp - Sent a negative bind response to the
                                partner LU.
               sessActRejected - Session activation rejected by the
                                partner LU.
                               - Unbind sent to the partner LU.
               unbindReceived - Unbind received from the partner LU.
          These event types correspond to the five SNA/MS Alerts
          LU62001 through LU62005, documented in the SNA Management
          Services Reference."
      ::= { appcHistSessEntry 3 }
appcHistSessLocLuName OBJECT-TYPE
     SYNTAX DisplayString (SIZE (1..17))
     MAX-ACCESS read-only
     STATUS current
      DESCRIPTION
          "The network-qualified local LU name. This field is from 3 to
          17 characters in length, including a period (.) which separates
          the NetId from the NAU name if the NetId is present."
      ::= { appcHistSessEntry 4 }
appcHistSessParLuName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (3..17))
     MAX-ACCESS read-only
      STATUS current
     DESCRIPTION
          "The network-qualified partner LU name. This field is from 3
          to 17 characters in length, including a period (.) which
          separates the NetId from the NAU name if the NetId is present."
      ::= { appcHistSessEntry 5 }
appcHistSessModeName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..8))
     MAX-ACCESS read-only
     STATUS current
      DESCRIPTION
          "The mode name of the session."
```

```
::= { appcHistSessEntry 6 }
appcHistSessUnbindType OBJECT-TYPE
     SYNTAX OCTET STRING (SIZE (1))
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "The type of unbind which terminated the session. This
          value is consists of one (1) octet; and its meaning
          is defined in SNA Formats."
      ::= { appcHistSessEntry 7 }
appcHistSessSenseData OBJECT-TYPE
     SYNTAX SnaSenseData
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
         "The sense data associated with the termination of the
         session, taken from the negative BIND response or UNBIND
      ::= { appcHistSessEntry 8 }
appcHistSessComponentId OBJECT-TYPE
     SYNTAX DisplayString (SIZE (0..32))
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "The implementation-specific name of the component which
         detected the problem."
      ::= { appcHistSessEntry 9 }
appcHistSessDetectModule OBJECT-TYPE
     SYNTAX DisplayString (SIZE (0..32))
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "The implementation-specific name of the module which
         detected the problem."
      ::= { appcHistSessEntry 10 }
__ *********************************
-- APPC Session RTP Connection Table
```

```
-- This table contains information on APPC sessions that are being
-- transported on RTP connections by High Performance Routing (HPR).
__ ********************************
appcSessRtpTable OBJECT-TYPE
     SYNTAX SEQUENCE OF AppcSessRtpEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
          "A table indicating how many APPC sessions terminating in this
         node are transported by each RTP connection."
      ::= { appcSession 4 }
appcSessRtpEntry OBJECT-TYPE
     SYNTAX AppcSessRtpEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "Entry of APPC session RTP table."
     INDEX { appcSessRtpNceId,
             appcSessRtpTcid }
      ::= { appcSessRtpTable 1 }
AppcSessRtpEntry ::= SEQUENCE {
     appcSessRtpNceId
                                  OCTET STRING,
                                  OCTET STRING,
     appcSessRtpTcid
     appcSessRtpSessions
                                 Gauge32
                    }
appcSessRtpNceId OBJECT-TYPE
     SYNTAX OCTET STRING (SIZE (1..8))
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "The local Network Connection Endpoint of the RTP connection."
      ::= { appcSessRtpEntry 1 }
appcSessRtpTcid OBJECT-TYPE
     SYNTAX OCTET STRING (SIZE (8))
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
          "The local TCID of the RTP connection."
      ::= { appcSessRtpEntry 2 }
```

```
appcSessRtpSessions OBJECT-TYPE
     SYNTAX Gauge32
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
         "The number of APPC sessions terminating in this node
         that are using this RTP connection."
     ::= { appcSessRtpEntry 3 }
__ *************************
    APPC Active Conversation Table
   This table contains information about active APPC conversations.
__ ***********************************
appcActiveConvTable OBJECT-TYPE
     SYNTAX SEQUENCE OF AppcActiveConvEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "Table of information about active APPC Conversations. In this
         context 'active' means that a conversation is currently
         associated with a particular session. Two entries are present
         in the table when both LUs for the session are local."
     ::= { appcConversation 1 }
appcActiveConvEntry OBJECT-TYPE
     SYNTAX AppcActiveConvEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "Entry representing one active APPC Conversation."
     INDEX { appcActiveConvLocLuName,
             appcActiveConvParLuName,
             appcActiveConvSessIndex }
     ::= { appcActiveConvTable 1}
AppcActiveConvEntry
                   ::= SEQUENCE {
                                        DisplayString,
          appcActiveConvLocLuName
                                        DisplayString,
          appcActiveConvParLuName
          appcActiveConvSessIndex
                                        Integer32,
          appcActiveConvId
                                        OCTET STRING,
          appcActiveConvState
                                         INTEGER,
          appcActiveConvType
                                         INTEGER,
```

```
appcActiveConvCorrelator
                                                  OCTET STRING,
            appcActiveConvSyncLvl
                                                   INTEGER,
            appcActiveConvSource
                                                  INTEGER,
            appcActiveConvDuplex
                                                  INTEGER,
            appcActiveConvUpTime
                                                  TimeTicks,
            appcActiveConvSendBytes
appcActiveConvRcvBytes
appcActiveConvUserid
                                               Counter32,
Counter32,
            appcActiveConvUserid DisplayString, appcActiveConvPcidNauName DisplayString, appcActiveConvPcid
            appcActiveConvreta
appcActiveConvModeName DisplayString,
appcActiveConvLuwIdName DisplayString,
appcActiveConvLuwIdInstance OCTET STRING,
appcActiveConvLuwIdSequence OCTET STRING,
DisplayString
            appcActiveConvPcid
                                                  OCTET STRING,
                        }
appcActiveConvLocLuName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..17))
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
           "The SNA name of the local LU for the conversation. This field
           is from 1 to 17 characters in length, including a period (.)
           which separates the NetId from the NAU name if the NetId is
           present.
           If this object has the same value as appcLluOperName,
           then the two entries being indexed apply to the same
           resource (specifically, to the same local LU)."
       ::= { appcActiveConvEntry 1 }
appcActiveConvParLuName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..17))
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
           "The SNA name of the partner LU for the conversation. This
           field is from 1 to 17 characters in length, including a period
           (.) which separates the NetId from the NAU name if the NetId is
           present.
           If this object has the same value as appcLuPairOperParLuName,
           then the two entries being indexed apply to the same
           resource (specifically, to the same partner LU)."
       ::= { appcActiveConvEntry 2 }
```

```
appcActiveConvSessIndex OBJECT-TYPE
      SYNTAX Integer32
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
          "Index of entry in appcActSessTable that is associated with
          this conversation. If this object has the same value as
          appcActSessIndex for the same LU pair, then the two entries
          being indexed apply to the same resource (specifically, to the
          same session)."
      ::= { appcActiveConvEntry 3 }
appcActiveConvId OBJECT-TYPE
      SYNTAX OCTET STRING (SIZE (4))
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The 4-byte ID of the conversation."
      ::= { appcActiveConvEntry 4 }
appcActiveConvState OBJECT-TYPE
     SYNTAX INTEGER {
                      reset(1),
                      send(2),
                      receive(3),
                      confirm(4),
                      confirmSend(5),
                      confirmDealloc(6),
                      pendingDeallocate(7),
                      pendingPost(8),
                      sendReceive(9),
                      sendOnly(10),
                      receiveOnly(11),
                      deferReceive(12),
                      deferDeallocate(13),
                      syncpoint(14),
                      syncpointSend(15),
                      syncpointDeallocate(16),
                      backoutRequired(17)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Indicates the state of the conversation at the instant when
          the information was retrieved. The values are:
```

reset

The conversation is reset (i.e., deallocated).

send

The conversation can send data. This value also is returned if the conversation is in Send-Pending state.

receive

The conversation can receive data.

confirm

The conversation has received a confirm indicator. It can issue an [MC_]CONFIRMED or [MC_]SEND_ERROR verb to change state. It will continue in Receive state if an [MC_]CONFIRMED verb is issued.

confirmSend

The conversation is in Confirm state and changes to Send state when an [MC_]CONFIRMED verb is issued.

confirmDealloc

The conversation is in Confirm state and becomes inactive when an [MC_]CONFIRMED verb is issued.

pendingDeallocate

The conversation is in Pending-Deallocate state while it waits for (MC_)DEALLOCATE TYPE (sync_level) to complete.

pendingPost

The conversation is in Pending-Post state while it waits for the [MC_]RECEIVE_AND_POST verb to complete its receive function.

sendReceive

The full-duplex conversation can send or receive data.

sendOnly

The full-duplex conversation can send data, but it does not have permission to receive data, because the partner TP has already deallocated its side of the conversation.

receiveOnly

The full-duplex conversation can receive data, but it does not have permission to send data, because it has already deallocated its side of the conversation.

deferReceive

Waiting for a successful SYNCPT verb operation to go into the receive state.

deferDeallocate

Waiting for a successful SYNCPT verb operation to go into the reset state.

```
syncpoint
                        Need to response to a SYNCPT verb issued. After
                        successful operation, the next state will be
                        receive.
              syncpointSend
                        Need to response to a SYNCPT verb issued. After
                        successful operation, the next state will be
              syncpointDeallocate
                        Need to response to a SYNCPT verb issued. After
                        successful operation, the next state will be
              backoutRequired
                        TP must execute a BACKOUT verb to backout the
                        transaction."
      ::= { appcActiveConvEntry 5 }
appcActiveConvType OBJECT-TYPE
      SYNTAX INTEGER {
                      basic(1),
                      mapped(2)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Indicates the type of conversation. The values are:
              basic
                        Indicates that this conversation supports
                        basic verbs.
              mapped
                        Indicates that this conversation supports
                        mapped verbs."
      ::= { appcActiveConvEntry 6 }
appcActiveConvCorrelator OBJECT-TYPE
      SYNTAX OCTET STRING (SIZE (0..8))
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "This is an 8-byte identifier that the source LU assigns to the
          conversation; the source LU is the one that sent the allocation
          request. The conversation correlator is included on the
          allocation request. The conversation correlator uniquely
```

```
identifies a conversation, from among all conversations, between the local and partner LUs. It may be used, for example, during problem determination associated with a conversation. A length of 0 indicates that no conversation correlator is defined."
```

```
::= { appcActiveConvEntry 7 }
appcActiveConvSyncLvl OBJECT-TYPE
      SYNTAX INTEGER {
                      none(1),
                      confirm(2),
                      syncpt(3)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Indicates the highest sync level support for the conversation.
          The values are:
                none
                        Indicates that no sync-level processing can be
                        performed on this conversation. The
                        transaction program does not issue verbs or
                        recognize any returned parameters
                        relating to any sync-level function.
                confirm
                        Indicates that confirmation processing can be
                        performed on this conversation. The
                        transaction program can issue verbs and
                        recognize returned parameters relating to
                        confirmation.
                syncpt
                        Indicates that syncpt and confirmation processing
                        can be performed on this conversation. The
                        transaction program can issue verbs and recognize
                        returned parameters relating to syncpt and
                        confirmation."
      ::= { appcActiveConvEntry 8 }
appcActiveConvSource OBJECT-TYPE
      SYNTAX INTEGER {
                      localLu(1),
                      partnerLu(2)
```

MAX-ACCESS read-only

```
STATUS current
      DESCRIPTION
          "Indicates whether the local or partner LU is the source of the
          conversation, that is, which LU started the conversation by
          sending the allocation request.
               localLu
                        The local LU is the source of the conversation,
                        and the partner LU is the target of the
                        conversation.
               partnerLu
                        The partner LU is the source of the
                        conversation, and the local LU is the target of
                        the conversation."
      ::= { appcActiveConvEntry 9 }
appcActiveConvDuplex OBJECT-TYPE
      SYNTAX INTEGER {
                      half(1),
                      full(2)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Indicates the conversation duplex style in effect for the
          conversation.
            half
                        Indicates that information can be transferred in
                        both directions, but only in one direction at a
                        time.
            full
                        Indicates that information can be transferred in
                        both directions at the same time."
      ::= { appcActiveConvEntry 10 }
appcActiveConvUpTime OBJECT-TYPE
      SYNTAX TimeTicks
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The length of time since the conversation started, measured in
          hundredths of a second."
      ::= { appcActiveConvEntry 11 }
Allen, et. al.
                            Standards Track
                                                                [Page 99]
```

```
appcActiveConvSendBytes OBJECT-TYPE
     SYNTAX Counter32
     MAX-ACCESS read-only
      STATUS current
     DESCRIPTION
          "Indicates the number of bytes that was sent on the
          conversation. The count includes all SNA RU bytes sent,
          including those in the FMH-5 (Attach), FMH-7 (Error
         Description), SIGNAL, LUSTAT, and SNA responses; it does not
          include SNA TH and RH bytes."
      ::= { appcActiveConvEntry 12 }
appcActiveConvRcvBytes OBJECT-TYPE
      SYNTAX Counter32
     MAX-ACCESS read-only
      STATUS current
     DESCRIPTION
          "Indicates the number of bytes that was received on the
          conversation. The count includes all SNA RU bytes sent,
          including those in the FMH-5 (Attach), FMH-7 (Error
         Description), SIGNAL, LUSTAT, and SNA responses; it does not
          include SNA TH and RH bytes."
      ::= { appcActiveConvEntry 13 }
appcActiveConvUserid OBJECT-TYPE
      SYNTAX DisplayString (SIZE (0..10))
     MAX-ACCESS read-only
      STATUS current
     DESCRIPTION
          "The user ID that the initiating program provided in the
          incoming attach."
      ::= { appcActiveConvEntry 14 }
appcActiveConvPcidNauName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (0 | 3..17))
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "The network-qualified NAU name of the
          node at which the session and PCID originated. For APPN
          and LEN nodes, this is either CP name of the APPN node at
          which the origin LU is located or the CP name of the
          NN serving the LEN node at which the origin LU is
          located. This field is from 3 to 17 characters in
          length, including a period (.) which separates the
```

```
NetId from the NAU name. A null string indicates
           that the value is unknown."
      ::= { appcActiveConvEntry 15 }
appcActiveConvPcid OBJECT-TYPE
      SYNTAX OCTET STRING (SIZE (0 | 8))
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The procedure correlation identifier (PCID) of the session.
          It is an 8-octet value assigned by the control point providing
          session services for the primary LU. A null string indicates
          that the value is unknown."
      ::= { appcActiveConvEntry 16 }
appcActiveConvModeName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..8))
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The Mode Name used for this conversation.
           This is a 1-8 character name."
      ::= { appcActiveConvEntry 17 }
appcActiveConvLuwIdName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..17))
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The SNA name of the LU that initiated the logical unit of work
           that is associated with this active TP. This field is from
           1 to 17 characters in length, including a period (.) which
           separates the NetId from the LU name if the NetId is present."
      ::= { appcActiveConvEntry 18 }
appcActiveConvLuwIdInstance OBJECT-TYPE
      SYNTAX OCTET STRING (SIZE (0..6))
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The instance identifier for the logical unit of work."
      ::= { appcActiveConvEntry 19 }
```

```
appcActiveConvLuwIdSequence OBJECT-TYPE
     SYNTAX OCTET STRING (SIZE (0..2))
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
         "The sequence identifier for the logical unit of work."
      ::= { appcActiveConvEntry 20 }
appcActiveConvTpName OBJECT-TYPE
     SYNTAX DisplayString (SIZE (0..64))
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
         "The transaction program name which started this conversation.
         This name could either be from a FMH5 ATTACH for a remotely
         started conversation, otherwise it could the name of the local
         TP if available.
         When the TP name consists entirely of displayable EBCDIC code
         points, it is mapped directly to the equivalent ASCII display
         string. However, registered TP names always have a non-
         displayable EBCDIC code point (value less than or equal to
         x'3F') as the first character, so they cannot be directly
         mapped to an ASCII display string. These TP names are
         converted to a display string that is equivalent to a
         hexadecimal display of the EBCDIC code points. For example,
         the 2-byte TP name x'06F1' (CNOS) is converted to the 6-byte
         ASCII display string '06F1' (including the two single quotes).
         This name is NULL if the conversation is started locally
         (i.e., not with a FMH5 ATTACH)."
      ::= { appcActiveConvEntry 21 }
__ *************************
    APPC Historical Conversation Table
     This table contains historical information about APPC
     conversations that ended abnormally. It is an implementation
     choice how long to retain information on a given conversation.
__ *********************************
appcHistConvTable OBJECT-TYPE
     SYNTAX SEQUENCE OF AppcHistConvEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "Table of historical information about APPC Conversations that
```

ended in error. Possible categories of error conditions that could be saved in this table are:

```
- allocation errors,
                 - deallocate abend,
                 - program errors, and
                 - service errors.
      ::= { appcConversation 2 }
appcHistConvEntry OBJECT-TYPE
      SYNTAX AppcHistConvEntry
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
           "Entry representing one APPC Conversation."
      INDEX
             { appcHistConvIndex }
      ::= { appcHistConvTable 1}
                     ::= SEQUENCE {
AppcHistConvEntry
                          Integer32,
      appcHistConvIndex
                                   DateAndTime,
      appcHistConvEndTime
      appcHistConvLocLuName DisplayString, appcHistConvParLuName DisplayString,
      appcHistConvTpName DisplayString,
appcHistConvPcidNauName DisplayString,
                                 OCTET STRING,
      appcHistConvPcid
                                  SnaSenseData,
      appcHistConvSenseData
                                   OCTET STRING,
      appcHistConvLogData
      appcHistConvEndedBy
                                   INTEGER
appcHistConvIndex OBJECT-TYPE
      SYNTAX Integer32
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
          "Index for entry in Conversation table. This value identifies
          the unique index of the conversation. It is recommended that
          an Agent not reuse the index of a deactivated conversation for
          a significant period of time (e.g. one week)."
      ::= { appcHistConvEntry 1 }
appcHistConvEndTime OBJECT-TYPE
```

```
SYNTAX DateAndTime
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The time at which the conversation ended."
      ::= { appcHistConvEntry 2 }
appcHistConvLocLuName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..17))
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The name of the local LU for this conversation. This field is
          from 1 to 17 characters in length, including a period (.) which
          separates the NetId from the NAU name if the NetId is present."
      ::= { appcHistConvEntry 3 }
appcHistConvParLuName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..17))
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "The SNA name of the partner LU for the conversation. This
          field is from 1 to 17 characters in length, including a period
          (.) which separates the NetId from the NAU name if the NetId is
         present."
      ::= { appcHistConvEntry 4 }
appcHistConvTpName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (0..64))
     MAX-ACCESS read-only
      STATUS current
     DESCRIPTION
          "The transaction program name which started this conversation.
         This name could either be from a FMH5 ATTACH for a remotely
          started conversation, otherwise it could the name of the local
          TP if available.
          When the TP name consists entirely of displayable EBCDIC code
         points, it is mapped directly to the equivalent ASCII display
         string. However, registered TP names always have a non-
         displayable EBCDIC code point (value less than or equal to
         x'3F') as the first character, so they cannot be directly
```

mapped to an ASCII display string. These TP names are converted to a display string that is equivalent to a

```
hexadecimal display of the EBCDIC code points. For example,
         the 2-byte TP name x'06F1' (CNOS) is converted to the 6-byte
         ASCII display string '06F1' (including the two single quotes).
          This name is NULL if the conversation is started locally
          (i.e., not with a FMH5 ATTACH)."
      ::= { appcHistConvEntry 5 }
appcHistConvPcidNauName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (0 | 3..17))
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The network-qualified NAU name of the
          node at which the session and PCID originated. For APPN
           and LEN nodes, this is either CP name of the APPN node at
           which the origin LU is located or the CP name of the
           NN serving the LEN node at which the origin LU is
           located. This field is from 3 to 17 characters in
           length, including a period (.) which separates the
           NetId from the NAU name. A null string indicates that the
           value is unknown."
      ::= { appcHistConvEntry 6 }
appcHistConvPcid OBJECT-TYPE
      SYNTAX OCTET STRING (SIZE (0 | 8))
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
         "The procedure correlation identifier (PCID) of the session.
         It is an 8-octet value assigned by the control point providing
         session services for the primary LU. A null string indicates
         that the value is unknown."
      ::= { appcHistConvEntry 7 }
appcHistConvSenseData OBJECT-TYPE
      SYNTAX SnaSenseData
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The sense data associated with the action that ended this
          conversation, e.g., FMH-7 or UNBIND."
      ::= { appcHistConvEntry 8 }
```

```
appcHistConvLogData OBJECT-TYPE
     SYNTAX OCTET STRING (SIZE (0..32))
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
         "The first 32 bytes of the data portion of the Log Data GDS
         Variable that is associated with the last FMH-7 that occurred
         on this conversation. If there was no Log Data GDS Variable
         associated with the FMH-7, this object is null.
         This object reflects only the data portion of the Log Data
         GDS Variable (i.e. not the LL or GDS Id)."
      ::= { appcHistConvEntry 9 }
appcHistConvEndedBy OBJECT-TYPE
     SYNTAX INTEGER {
                     localLu(1),
                    partnerLu(2)
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
         "Indicates which LU ended the conversation."
      ::= { appcHistConvEntry 10 }
__ *********************************
     APPC CPIC Admin Table
     Objects in this table contain default or expected configuration
     values for CPI-C side information.
__ *********************************
appcCpicAdminTable OBJECT-TYPE
     SYNTAX SEQUENCE OF AppcCpicAdminEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "APPC CPI-C side information table."
      ::= { appcCPIC 1 }
appcCpicAdminEntry OBJECT-TYPE
     SYNTAX AppcCpicAdminEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "Entry of APPC CPI-C side information Table."
```

```
INDEX { appcCpicAdminLocLuName,
              appcCpicAdminSymbDestName }
      ::= { appcCpicAdminTable 1 }
AppcCpicAdminEntry ::= SEQUENCE {
                                        DisplayString,
DisplayString,
          appcCpicAdminLocLuName
          appcCpicAdminSymbDestName
                                          DisplayString,
          appcCpicAdminParLuAlias
          appcCpicAdminParLuName
                                          DisplayString,
                                          DisplayString,
          appcCpicAdminModeName
          appcCpicAdminTpNameType
appcCpicAdminTpName
appcCpicAdminUserid
                                          INTEGER,
                                         DisplayString,
                                          DisplayString,
          appcCpicAdminSecurity
                                          INTEGER
                      }
appcCpicAdminLocLuName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..17))
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
          "The SNA name of the local LU to which this CPI-C side
          information definition applies. This field is from 1 to 17
          characters in length, including a period (.) which separates
          the NetId from the NAU name if the NetId is present.
          The reserved value '*ALL' indicates that the definition applies
          to all local LUs, and not just to a single local LU."
      ::= { appcCpicAdminEntry 1 }
appcCpicAdminSymbDestName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..8))
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
          "Specifies the symbolic destination name used by CPI-C
          applications to identify this definition."
      ::= { appcCpicAdminEntry 2 }
appcCpicAdminParLuAlias OBJECT-TYPE
      SYNTAX DisplayString (SIZE (0..8))
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "A local alias for the partner LU. If not known or
```

```
not applicable, this object contains a zero-length
           string."
      ::= { appcCpicAdminEntry 3 }
appcCpicAdminParLuName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..17))
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The SNA name of the partner LU. This field is from 1 to 17
          characters in length, including a period (.) which separates
          the NetId from the NAU name if the NetId is present."
      ::= { appcCpicAdminEntry 4 }
appcCpicAdminModeName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..8))
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the mode name. A mode defines the characteristics
          for a group of sessions. The mode name can be blank (8 space
          characters)."
      ::= { appcCpicAdminEntry 5 }
appcCpicAdminTpNameType OBJECT-TYPE
      SYNTAX INTEGER {
                      normal(1),
                      snaServiceTp(2)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies whether the TP name in appcCpicAdminTpName
          identifies a normal TP or an SNA service TP. In this context,
          a normal TP is one with a name consisting only of displayable
          characters, while an SNA service TP has a name containing
          octets that do not map to displayable characters."
      ::= { appcCpicAdminEntry 6 }
appcCpicAdminTpName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..64))
```

```
MAX-ACCESS read-only
STATUS current
DESCRIPTION
```

"Specifies the name of the partner TP to be used when a CPI-C application initiates a conversation specifying this side information entry.

Display convention

When the TP name consists entirely of displayable EBCDIC code points, it is mapped directly to the equivalent ASCII display string. However, registered TP names always have a non-displayable EBCDIC code point (value less than or equal to x'3F') as the first character, so they cannot be directly mapped to an ASCII display string. These TP names are converted to a display string that is equivalent to a hexadecimal display of the EBCDIC code points. For example, the 2-byte TP name x'06F1' (CNOS) is converted to the 6-byte ASCII display string '06F1' (including the two single quotes)."

```
::= { appcCpicAdminEntry 7 }
appcCpicAdminUserid OBJECT-TYPE
      SYNTAX DisplayString (SIZE (0..10))
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The security userid, if any, associated with the side
          information definition."
      ::= { appcCpicAdminEntry 8 }
appcCpicAdminSecurity OBJECT-TYPE
      SYNTAX INTEGER {
                      none(1),
                      same(2),
                      pgm(3),
                      pgmStrong(4),
                      distributed(5),
                      mutual(6)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the security information to be used for allocating
          the conversation.
```

```
- No security information.
           none
                      - Use the security environment currently
           same
                        associated with this TP.
                      - Use the program-supplied user id and password.
           pam
                     - Use the program-supplied user_id and password.
           pgmStrong
                        The local LU will insure that the password is
                        not exposed in clear-text form on the physical
                        network.
           distributed - Use the security environment and a distributed
                        security system to generate the authentication
                        information for this request. If distributed
                        security tokens cannot be generated, then fail
                        the conversation.
                      - Authenticate both the user to the destination
           mutual
                        system and the destination system to the user."
      ::= { appcCpicAdminEntry 9 }
__ **************************
     APPC CPIC Oper Table
     Objects in this table contain current operational values, such
     as state values or negotiated parameters, for CPI-C side
     information.
__ **********************************
appcCpicOperTable OBJECT-TYPE
     SYNTAX SEQUENCE OF AppcCpicOperEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "APPC CPI-C side information operational table."
      ::= { appcCPIC 2 }
appcCpicOperEntry OBJECT-TYPE
     SYNTAX AppcCpicOperEntry
     MAX-ACCESS not-accessible
     STATUS current
     DESCRIPTION
         "Entry of APPC CPI-C side information Table."
     INDEX { appcCpicOperLocLuName,
             appcCpicOperSymbDestName }
      ::= { appcCpicOperTable 1 }
```

```
AppcCpicOperEntry ::= SEQUENCE {
         appcCpicOperLocLuName
                                       DisplayString,
         appcCpicOperSymbDestName
                                      DisplayString,
          appcCpicOperParLuAlias
                                       DisplayString,
         appcCpicOperParLuName
                                      DisplayString,
                                       DisplayString,
          appcCpicOperModeName
                                      INTEGER,
          appcCpicOperTpNameType
         appcCpicOperTpName
                                        DisplayString,
                                       DisplayString,
          appcCpicOperUserid
                                   INTEGER
          appcCpicOperSecurity
                    }
appcCpicOperLocLuName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..17))
     MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
          "The SNA name of the local LU to which this CPI-C side
          information definition applies. This field is from 1 to 17
          characters in length, including a period (.) which separates
          the NetId from the NAU name if the NetId is present.
          The reserved value '*ALL' indicates that the definition applies
          to all local LUs, and not just to a single local LU."
      ::= { appcCpicOperEntry 1 }
appcCpicOperSymbDestName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..8))
     MAX-ACCESS not-accessible
      STATUS current
     DESCRIPTION
          "Specifies the symbolic destination name used by CPI-C
          applications to identify this definition."
      ::= { appcCpicOperEntry 2 }
appcCpicOperParLuAlias OBJECT-TYPE
     SYNTAX DisplayString (SIZE (0..8))
     MAX-ACCESS read-only
     STATUS current
      DESCRIPTION
          "A local alias for the partner LU. If not known or not
          applicable, this object contains a zero-length string."
      ::= { appcCpicOperEntry 3 }
appcCpicOperParLuName OBJECT-TYPE
```

```
SYNTAX DisplayString (SIZE (1..17))
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The SNA name of the partner LU. This field is from 1 to 17
          characters in length, including a period (.) which separates
          the NetId from the NAU name if the NetId is present."
      ::= { appcCpicOperEntry 4 }
appcCpicOperModeName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..8))
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the mode name. A mode defines the characteristics
          for a group of sessions. The mode name can be blank (8 space
          characters)."
      ::= { appcCpicOperEntry 5 }
appcCpicOperTpNameType OBJECT-TYPE
      SYNTAX INTEGER {
                      normal(1),
                      snaServiceTp(2)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies whether the TP name in appcCpicOperTpName identifies
          a normal TP or an SNA service TP. In this context, a normal TP
          is one with a name consisting only of displayable characters,
          while an SNA service TP has a name containing octets that do
          not map to displayable characters."
      ::= { appcCpicOperEntry 6 }
appcCpicOperTpName OBJECT-TYPE
      SYNTAX DisplayString (SIZE (1..64))
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the name of the partner TP to be used when a CPI-C
          application initiates a conversation specifying this side
          information entry.
```

Display convention

When the TP name consists entirely of displayable EBCDIC code points, it is mapped directly to the equivalent ASCII display string. However, registered TP names always have a non-displayable EBCDIC code point (value less than or equal to x'3F') as the first character, so they cannot be directly mapped to an ASCII display string. These TP names are converted to a display string that is equivalent to a hexadecimal display of the EBCDIC code points. For example, the 2-byte TP name x'06F1' (CNOS) is converted to the 6-byte ASCII display string '06F1' (including the two single quotes)."

```
single quotes)."
      ::= { appcCpicOperEntry 7 }
appcCpicOperUserid OBJECT-TYPE
     SYNTAX DisplayString (SIZE (0..10))
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The security userid, if any, associated with the active side
          information definition."
      ::= { appcCpicOperEntry 8 }
appcCpicOperSecurity OBJECT-TYPE
      SYNTAX INTEGER {
                      none(1),
                      same(2),
                      pgm(3),
                      pgmStrong(4),
                      distributed(5),
                      mutual(6)
     MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "Specifies the security information to be used for allocating
          the conversation.
                        - No security information.
            none
            same
                        - Use the security environment currently
                          associated with this TP.
                        - Use the program-supplied user_id and password.
            pgmStrong - Use the program-supplied user_id and password.
                          The local LU will insure that the password is
                          not exposed in clear-text form on the physical
```

```
network.
           distributed - Use the security environment and a distributed
                        security system to generate the authentication
                        information for this request. If distributed
                        security tokens cannot be generated, then fail
                        the conversation.
           mutual
                      - Authenticate both the user to the destination
                         system and the destination system to the user."
      ::= { appcCpicOperEntry 9 }
__ **********************************
-- Conformance information
__ **********************************
appcConformance
                   OBJECT IDENTIFIER ::= {appcMIB 2 }
                  OBJECT IDENTIFIER ::= {appcConformance 1 }
appcCompliances
appcGroups
                   OBJECT IDENTIFIER ::= {appcConformance 2 }
-- Compliance statements
appcCompliance MODULE-COMPLIANCE
     STATUS current
     DESCRIPTION
         "The compliance statement for the SNMPv2 entities which
         implement the APPC MIB."
     MODULE -- this module
     Unconditionally mandatory groups
     MANDATORY-GROUPS
                      appcGlobalConfGroup,
                      appcLluConfGroup,
                      appcParLuConfGroup,
                      appcModeConfGroup,
                      appcTpConfGroup,
                      appcSessionConfGroup
               }
     Conditionally mandatory groups
     GROUP appcControlConfGroup
       DESCRIPTION
           "The appcControlConfGroup is mandatory only for those
           entities which implement activation and deactivation of
           specific controls such as statistics collecting and
           counting."
```

```
GROUP appcCnosConfGroup
       DESCRIPTION
            "The appcCnosConfGroup is mandatory only for those entities
            which implement CNOS. "
      GROUP appcCpicConfGroup
       DESCRIPTION
            "The appcCpicConfGroup is mandatory only for those entities
            which implement CPI-C.
      GROUP appcConversationConfGroup
       DESCRIPTION
            "The appcConversationConfGroup is mandatory only for those
            entities which implement session endpoints for non-control
            APPC sessions."
     MIN-ACCESS for objects
       OBJECT appcActSessOperState
       MIN-ACCESS read-only
       DESCRIPTION
            "An implementation is not required to support session
            deactivation via this object."
      ::= {appcCompliances 1 }
-- Units of conformance
appcGlobalConfGroup OBJECT-GROUP
      OBJECTS {
                appcUpTime,
                appcDefaultModeName,
                appcDefaultLuName,
                appcDefaultImplInbndPlu,
                appcDefaultMaxMcLlSndSize,
                appcDefaultFileSpec,
                appcDefaultTpOperation,
                appcDefaultTpConvSecRqd,
                appcLocalCpName,
                appcActiveSessions,
                appcActiveHprSessions
                }
      STATUS current
      DESCRIPTION
          "A collection of objects providing the instrumentation of APPC
          global information and defaults."
      ::= { appcGroups 1 }
```

```
appcLluConfGroup OBJECT-GROUP
      OBJECTS {
                appcLluAdminDepType,
                appcLluAdminLocalAddress,
                appcLluAdminSessLimit,
                appcLluAdminBindRspMayQ,
                appcLluAdminCompression,
                appcLluAdminInBoundCompLevel,
                appcLluAdminOutBoundCompLevel,
                appcLluAdminCompRleBeforeLZ,
                appcLluAdminAlias,
                appcLluOperDepType,
                appcLluOperLocalAddress,
                appcLluOperSessLimit,
                appcLluOperBindRspMayO,
                appcLluOperCompression,
                appcLluOperInBoundCompLevel,
                appcLluOperOutBoundCompLevel,
                appcLluOperCompRleBeforeLZ,
                appcLluOperAlias,
                appcLluOperActiveSessions
      STATUS current
      DESCRIPTION
          "A collection of objects providing the instrumentation of APPC
          local LU6.2s."
      ::= { appcGroups 2 }
appcParLuConfGroup OBJECT-GROUP
      OBJECTS {
                appcLuPairAdminParLuAlias,
                appcLuPairAdminSessLimit,
                appcLuPairAdminSessSec,
                appcLuPairAdminSecAccept,
                appcLuPairAdminLinkObjId,
                appcLuPairAdminParaSessSup,
                appcLuPairOperParLuAlias,
                appcLuPairOperSessLimit,
                appcLuPairOperSessSec,
                appcLuPairOperSecAccept,
                appcLuPairOperLinkObjId,
                appcLuPairOperParaSessSup,
                appcLuPairOperParaSessSupLS,
                appcLuPairOperState
                }
```

```
STATUS current
      DESCRIPTION
          "A collection of objects providing the instrumentation of APPC
          partner LUs."
      ::= { appcGroups 3 }
appcModeConfGroup OBJECT-GROUP
      OBJECTS {
               appcModeAdminCosName,
               appcModeAdminSessEndTpName,
               appcModeAdminMaxSessLimit,
               appcModeAdminMinCwinLimit,
               appcModeAdminMinClosLimit,
               appcModeAdminConWinAutoActLmt,
               appcModeAdminRecvPacWinSz,
               appcModeAdminSendPacWinSz,
               appcModeAdminPrefRecvRuSz,
               appcModeAdminPrefSendRuSz,
               appcModeAdminRecvRuSzUpBnd,
               appcModeAdminSendRuSzUpBnd,
               appcModeAdminRecvRuSzLoBnd,
               appcModeAdminSendRuSzLoBnd,
               appcModeAdminSingSessReinit,
               appcModeAdminCompression,
               appcModeAdminInBoundCompLevel,
               appcModeAdminOutBoundCompLevel,
               appcModeAdminCompRleBeforeLZ,
               appcModeAdminSyncLvl,
               appcModeAdminCrypto,
               appcModeOperCosName,
               appcModeOperSessEndTpName,
               appcModeOperSessLimit,
               appcModeOperMaxSessLimit,
               appcModeOperMinCwinLimit,
               appcModeOperMinClosLimit,
               appcModeOperConWinAutoActLmt,
               appcModeOperRecvPacWinSz,
               appcModeOperSendPacWinSz,
               appcModeOperPrefRecvRuSz,
               appcModeOperPrefSendRuSz,
               appcModeOperRecvRuSzUpBnd,
               appcModeOperSendRuSzUpBnd,
               appcModeOperRecvRuSzLoBnd,
               appcModeOperSendRuSzLoBnd,
               appcModeOperSingSessReinit,
```

```
appcModeOperCompression,
               appcModeOperInBoundCompLevel,
               appcModeOperOutBoundCompLevel,
               appcModeOperCompRleBeforeLZ,
               appcModeOperSyncLvl,
               appcModeOperCrypto,
               appcModeOperSyncLvlLastStart,
               appcModeOperCryptoLastStart,
               appcModeOperCNOSNeg,
               appcModeOperActCwin,
               appcModeOperActClos,
               appcModeOperPndCwin,
               appcModeOperPndClos,
               appcModeOperPtmCwin,
               appcModeOperPtmClos,
               appcModeOperDrainSelf,
               appcModeOperDrainPart
                }
      STATUS current
      DESCRIPTION
          "A collection of objects providing the instrumentation of APPC
          modes."
      ::= { appcGroups 4 }
appcTpConfGroup OBJECT-GROUP
      OBJECTS {
                appcTpAdminFileSpec,
                appcTpAdminStartParm,
                appcTpAdminTpOperation,
                appcTpAdminInAttachTimeout,
                appcTpAdminRcvAllocTimeout,
                appcTpAdminSyncLvl,
                appcTpAdminInstLmt,
                appcTpAdminStatus,
                appcTpAdminLongRun,
                appcTpAdminConvType,
                appcTpAdminConvDuplex,
                appcTpAdminConvSecReq,
                appcTpAdminVerPip,
                appcTpAdminPipSubNum
      STATUS current
      DESCRIPTION
          "A collection of objects providing the instrumentation of APPC
          Transaction Programs."
      ::= { appcGroups 5 }
```

```
appcSessionConfGroup OBJECT-GROUP
     OBJECTS {
                appcActSessPcidCpName,
                appcActSessPcid,
                appcActSessPluIndicator,
                appcActSessModeName,
                appcActSessCosName,
                appcActSessTransPriority,
                appcActSessEnhanceSecSup,
                appcActSessSendPacingType,
                appcActSessSendRpc,
                appcActSessSendNxWndwSize,
                appcActSessRecvPacingType,
                appcActSessRecvRpc,
                appcActSessRecvNxWndwSize,
                appcActSessRscv,
                appcActSessInUse,
                appcActSessMaxSndRuSize,
                appcActSessMaxRcvRuSize,
                appcActSessSndPacingSize,
                appcActSessRcvPacingSize,
                appcActSessOperState,
                appcActSessUpTime,
                appcActSessRtpNceId,
                appcActSessRtpTcid,
                appcActSessLinkIndex,
                appcSessStatsSentFmdBytes,
                appcSessStatsSentNonFmdBytes,
                appcSessStatsRcvdFmdBytes,
                appcSessStatsRcvdNonFmdBytes,
                appcSessStatsSentFmdRus,
                appcSessStatsSentNonFmdRus,
                appcSessStatsRcvdFmdRus,
                appcSessStatsRcvdNonFmdRus,
                appcSessStatsCtrUpTime,
                appcHistSessTime,
                appcHistSessType,
                appcHistSessLocLuName,
                appcHistSessParLuName,
                appcHistSessModeName,
                appcHistSessUnbindType,
                appcHistSessSenseData,
                appcHistSessComponentId,
                appcHistSessDetectModule,
                appcSessRtpSessions
```

```
}
      STATUS current
      DESCRIPTION
          "A collection of objects providing the instrumentation of APPC
         LU6.2 sessions."
      ::= { appcGroups 6 }
appcControlConfGroup OBJECT-GROUP
      OBJECTS {
                appcCntrlAdminStat,
                appcCntrlAdminRscv,
                appcCntrlAdminTrace,
                appcCntrlAdminTraceParm,
                appcCntrlOperStat,
                appcCntrlOperStatTime,
                appcCntrlOperRscv,
                appcCntrlOperRscvTime,
                appcCntrlOperTrace,
                appcCntrlOperTraceTime,
                appcCntrlOperTraceParm
      STATUS current
      DESCRIPTION
          "A collection of objects providing the instrumentation of APPC
          control."
      ::= { appcGroups 7 }
appcCnosConfGroup OBJECT-GROUP
      OBJECTS {
                appcCnosCommand,
                appcCnosMaxSessLimit,
                appcCnosMinCwinLimit,
                appcCnosMinClosLimit,
                appcCnosDrainSelf,
                appcCnosDrainPart,
                appcCnosResponsible,
                appcCnosForce,
                appcCnosTargetLocLuName,
                appcCnosTargetParLuName,
                appcCnosTargetModeName
                }
      STATUS current
          "A collection of objects providing the instrumentation of APPC
          CNOS processing."
```

```
::= { appcGroups 8 }
appcCpicConfGroup OBJECT-GROUP
      OBJECTS {
                appcCpicAdminParLuAlias,
                appcCpicAdminParLuName,
                appcCpicAdminModeName,
                appcCpicAdminTpNameType,
                appcCpicAdminTpName,
                appcCpicAdminUserid,
                appcCpicAdminSecurity,
                appcCpicOperParLuAlias,
                appcCpicOperParLuName,
                appcCpicOperModeName,
                appcCpicOperTpNameType,
                appcCpicOperTpName,
                appcCpicOperUserid,
                appcCpicOperSecurity
      STATUS current
      DESCRIPTION
          "A collection of objects providing the instrumentation of APPC
          CPI-C side information."
      ::= { appcGroups 9 }
appcConversationConfGroup OBJECT-GROUP
     OBJECTS {
                appcActiveConvId,
                appcActiveConvState,
                appcActiveConvType,
                appcActiveConvCorrelator,
                appcActiveConvSyncLvl,
                appcActiveConvSource,
                appcActiveConvDuplex,
                appcActiveConvUpTime,
                appcActiveConvSendBytes,
                appcActiveConvRcvBytes,
                appcActiveConvUserid,
                appcActiveConvPcidNauName,
                appcActiveConvPcid,
                appcActiveConvModeName,
                appcActiveConvLuwIdName,
                appcActiveConvLuwIdInstance,
                appcActiveConvLuwIdSequence,
                appcActiveConvTpName,
                appcHistConvEndTime,
```

```
appcHistConvLocLuName,
                appcHistConvParLuName,
                appcHistConvTpName,
                appcHistConvPcidNauName,
                appcHistConvPcid,
                appcHistConvSenseData,
                appcHistConvLogData,
                appcHistConvEndedBy
                }
      STATUS current
      DESCRIPTION
          "A collection of objects providing the instrumentation of APPC
          conversations."
      ::= { appcGroups 10 }
-- end of conformance statement
END
```

5. Acknowledgments

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6. References

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- [6] IBM, Common Programming Interface Communications Specification 2.0, SC31-6180-01, June, 1994.
- [7] Kielczewski, Z., Kostick D., and K. Shih, "Definition of Managed Objects for SNA NAUs using SMIv2", RFC 1666, Eicon Technology Corporation, Bell Communications Research, Novell, August 1994.
- 7. Security Considerations

Security issues are not discussed in this memo.

8. Authors' Addresses

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