

File created: 22-Jul-88 15:50:38 {MCS:MCS:STANFORD}<LANE>NSTALKGAP.;2

changes to: (COURIERPROGRAMS GAP)  
(VARS NSTALKGAPCOMS)

previous date: 16-Jun-88 17:40:28 {MCS:MCS:STANFORD}<LANE>MEDLEYTALK>NSTALKGAP.;3

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

(RPAQQ NSTALKGAPCOMS ((COURIERPROGRAMS GAP)))

(COURIERPROGRAM GAP (3 3))

#### TYPES

```
[(WaitTime CARDINAL)
 (CharLength (ENUMERATION (five 0)
                          (six 1)
                          (seven 2)
                          (eight 3)))
 (Parity (ENUMERATION (none 0)
                     (odd 1)
                     (even 2)
                     (one 3)
                     (zero 4)))
 (StopBits (ENUMERATION (one 0)
                       (two 1)))
 (FlowControl (RECORD (type (ENUMERATION (none 0)
                                           (xOnXOff 1)))
                     (xOn UNSPECIFIED)
                     (xOff UNSPECIFIED)))
 (SessionHandle (ARRAY 2 UNSPECIFIED))
 [SessionParameterObject (CHOICE (xerox800 0 NIL)
                                (xerox850 1 UNSPECIFIED)
                                (xerox860 2 UNSPECIFIED)
                                (system6 3 (RECORD (sendBlockSize CARDINAL)
                                                  (receiveBlockSize CARDINAL)))
                                (cmcll 4 (RECORD (sendBlockSize CARDINAL)
                                                  (receiveBlockSize CARDINAL)))
                                (ibm2770 5 (RECORD (sendBlockSize CARDINAL)
                                                  (receiveBlockSize CARDINAL)))
                                (ibm2770Host 6 (RECORD (sendBlockSize CARDINAL)
                                                       (receiveBlockSize CARDINAL)))
                                (ibm6670 7 (RECORD (sendBlockSize CARDINAL)
                                                       (receiveBlockSize CARDINAL)))
                                (ibm6670Host 8 (RECORD (sendBlockSize CARDINAL)
                                                         (receiveBlockSize CARDINAL)))
                                (ibm3270 9 NIL)
                                (ibm3270Host 10 NIL)
                                (OldTtyHost 11 (RECORD (charLength CharLength)
                                                       (parity Parity)
                                                       (stopBits StopBits)
                                                       (frameTimeout CARDINAL)))
                                (OldTty 12 (RECORD (charLength CharLength)
                                                    (parity Parity)
                                                    (stopBits StopBits)
                                                    (frameTimeout CARDINAL)))
                                (other 13 NIL)
                                (unknown 14 NIL)
                                (ibm2780 15 (RECORD (sendBlockSize CARDINAL)
                                                    (receiveBlockSize CARDINAL)))
                                (ibm2780Host 16 (RECORD (sendBlockSize CARDINAL)
                                                         (receiveBlockSize CARDINAL)))
                                (ibm3780 17 (RECORD (sendBlockSize CARDINAL)
                                                     (receiveBlockSize CARDINAL)))
                                (ibm3780Host 18 (RECORD (sendBlockSize CARDINAL)
                                                         (receiveBlockSize CARDINAL)))
                                (siemens9750 19 NIL)
                                (siemens9750Host 20 NIL)
                                (ttyHost 21 (RECORD (charLength CharLength)
                                                    (parity Parity)
                                                    (stopBits StopBits)
                                                    (frameTimeout CARDINAL)
                                                    (flowControl FlowControl)))
                                (tty 22 (RECORD (charLength CharLength)
                                                (parity Parity)
                                                (stopBits StopBits)
                                                (frameTimeout CARDINAL)
                                                (flowControl FlowControl]
 [TransportObject (CHOICE [rs232c 0 (RECORD (CommParams CommParamObject)
                                           (preemptOthers ReserveType)
                                           (preemptMe ReserveType)
                                           (phoneNumber STRING)
                                           (line (CHOICE (alreadyReserved 0 (RECORD (resource Resource)))
                                                         (reserveNeeded 1 (RECORD (lineNumber CARDINAL]
                                           (bsc 1 (RECORD (localTerminalID STRING)
```

```

(localSecurityID STRING)
(lineControl LineControl)
(authenticateProc UNSPECIFIED)))
(teletype 2 NIL)
(polledBSCController 3 (RECORD (hostControllerName STRING)
                               (controllerAddress ControllerAddress)
                               (portsOnController CARDINAL)))
(sdscController 4 (RECORD (hostControllerName STRING)
                          (controllerAddress ControllerAddress)
                          (portsOnController CARDINAL)))
(polledBSCTerminal 5 (RECORD (hostControllerName STRING)
                              (terminalAddress TerminalAddress)))
(sdscTerminal 6 (RECORD (hostControllerName STRING)
                        (terminalAddress TerminalAddress)))
(service 7 (RECORD (id LONGCARDINAL)))
(unused 8 NIL)
(polledBSCPrinter 9 (RECORD (hostControllerName STRING)
                             (printerAddress TerminalAddress)))
(sdscPrinter 10 (RECORD (hostControllerName STRING)
                        (printerAddress TerminalAddress]
(Sequence.TransportObject (SEQUENCE TransportObject))
(BidReply (ENUMERATION (wack 0)
                      (nack 1)
                      (default 2)))
(ExtendedBoolean (ENUMERATION (true 0)
                              (false 1)
                              (default 2)))
(DeviceType (ENUMERATION (undefined 0)
                        (terminal 1)
                        (printer 2)))
[AccessDetail (CHOICE (directConn 0 (RECORD (duplex (ENUMERATION (full 0)
                                                                (half 1)))
                                           (lineType LineType)
                                           (lineSpeed LineSpeed)))
                     (dialConn 1 (RECORD (duplex (ENUMERATION (full 0)
                                                                (half 1)))
                                           (lineType LineType)
                                           (lineSpeed LineSpeed)
                                           (dialMode (ENUMERATION (manual 0)
                                                                (auto 1)))
                                           (dialerNumber CARDINAL)
                                           (retryCount CARDINAL]
(CommParamObject (RECORD (accessDetail AccessDetail)))
(LineType (ENUMERATION (bitSynchronous 0)
                      (byteSynchronous 1)
                      (asynchronous 2)
                      (autoRecognition 3)))
(LineSpeed (ENUMERATION (bps50 0)
                       (bps75 1)
                       (bps110 2)
                       (bps135p5 3)
                       (bps150 4)
                       (bps300 5)
                       (bps600 6)
                       (bps1200 7)
                       (bps2400 8)
                       (bps3600 9)
                       (bps4800 10)
                       (bps7200 11)
                       (bps9600 12)
                       (bps19200 13)
                       (bps28800 14)
                       (bps38400 15)
                       (bps48000 16)
                       (bps56000 17)
                       (bps57600 18)))
(LineControl (ENUMERATION (primary 0)
                          (secondary 1)))
(ControllerAddress CARDINAL)
(TerminalAddress CARDINAL)
(credentials (AUTHENTICATION . CREDENTIALS))
(verifier (AUTHENTICATION . VERIFIER))
(Duplexity (ENUMERATION (full 0)
                       (half 1)))
(PortClientType (ENUMERATION (unassigned 0)
                             (outOfService 1)
                             (its 2)
                             (irs 3)
                             (gws 4)
                             (ibm3270Host 5)
                             (ttyEmulation 6)
                             (rbs 7)
                             (fax 8)
                             (mailGateway 9)
                             (phototypesetter 10)))
(PortDialerType (ENUMERATION (none 0)
                             (vadic 1)

```

```

                (hayes 2)
                (ventel 3)
                (rs366 4)))
(PortEchoingLocation (ENUMERATION (application 0)
                                   (ciu 1)
                                   (terminal 2)))
(ReserveType (ENUMERATION (preemptNever 0)
                          (preemptAlways 1)
                          (preemptInactive 2)))
[RS232CData (RECORD (cIUPort BOOLEAN)
                   (owningClientType PortClientType)
                   (preemptionAllowed BOOLEAN)
                   (lineNumber CARDINAL)
                   (dialerNumber CARDINAL)
                   (duplexity Duplexity)
                   (dialingHardware PortDialerType)
                   (charLength CharLength)
                   (echoing PortEchoingLocation)
                   (flowControl FlowControl)
                   (lineSpeed LineSpeed)
                   (parity Parity)
                   (stopBits StopBits)
                   (portActsAsDCE BOOLEAN)
                   (accessControl NSNAME)
                   (validLineSpeeds (SEQUENCE LineSpeed]
(RS232CBack (RECORD (owningCIU STRING)
                   (owningECS STRING)
                   (owningClient STRING)
                   (portNumber CARDINAL)))
(IBMDeviceType (ENUMERATION (unused 0)
                             (model1 1)
                             (model2 2)
                             (model3 3)
                             (model4 4)
                             (model5 5)
                             (printer 6)
                             (other 7)))
(IBM3270Languages (ENUMERATION (USenglish 0)
                                (Austrian 1)
                                (AustrianAlt 2)
                                (German 3)
                                (GermanAlt 4)
                                (Belgian 5)
                                (Brazilian 6)
                                (CanadianFrench 7)
                                (Danish 8)
                                (DanishAlt 9)
                                (Norwegian 10)
                                (NorwegianAlt 11)
                                (Finnish 12)
                                (FinnishAlt 13)
                                (Swedish 14)
                                (SwedishAlt 15)
                                (French 16)
                                (International 17)
                                (Italian 18)
                                (JapaneseEnglish 19)
                                (JapaneseKana 20)
                                (Portuguese 21)
                                (Spanish 22)
                                (SpanishAlt 23)
                                (SpanishSpeaking 24)
                                (UKenglish 25)
                                (unused1 26)
                                (unused2 27)
                                (unused3 28)
                                (unused4 29)
                                (unused5 30)
                                (unused6 31)))
(ControllerLinkType (ENUMERATION (sdlc 0)
                                   (bsc 1)))
(IBM3270Device (RECORD (model IBMDeviceType)
                      (accessControl NSNAME)))
[IBM3270Controller (RECORD (controllerAddress CARDINAL)
                           (portsOnController CARDINAL)
                           (linkType ControllerLinkType)
                           (language IBM3270Languages)
                           (devices (SEQUENCE IBM3270Device]
(IBM3270HostData (SEQUENCE IBM3270Controller))
(IBM3270HostBack (RECORD (path NSNAME]

```

**PROCEDURES**

```

((Reset 0)
 (Create 2 (SessionParameterObject Sequence.TransportObject WaitTime credentials verifier)
  RETURNS
  (SessionHandle)
  REPORTS
  (badAddressFormat controllerAlreadyExists controllerDoesNotExist dialingHardwareProblem

```

```

illegalTransport inconsistentParams mediumConnectFailed noCommunicationHardware
noDialingHardware terminalAddressInUse terminalAddressInvalid tooManyGateStreams
transmissionMediumUnavailable serviceTooBusy userNotAuthenticated userNotAuthorized
serviceNotFound registeredTwice transmissionMediumHardwareProblem
transmissionMediumUnavailable transmissionMediumNotReady noAnswerOrBusy noRouteToGAPService
gapServiceNotResponding courierProtocolMismatch gapVersionMismatch)))

```

**ERRORS**

```

((unimplemented 0)
 (noCommunicationHardware 1)
 (illegalTransport 2)
 (mediumConnectFailed 3)
 (badAddressFormat 4)
 (noDialingHardware 5)
 (dialingHardwareProblem 6)
 (transmissionMediumUnavailable 7)
 (inconsistentParams 8)
 (tooManyGateStreams 9)
 (bugInGAPCode 10)
 (gapNotExported 11)
 (gapCommunicationError 12)
 (controllerAlreadyExists 13)
 (controllerDoesNotExist 14)
 (terminalAddressInUse 15)
 (terminalAddressInvalid 16)
 (serviceTooBusy 17)
 (userNotAuthenticated 18)
 (userNotAuthorized 19)
 (serviceNotFound 20)
 (registeredTwice 21)
 (transmissionMediumHardwareProblem 22)
 (transmissionMediumUnavailable 23)
 (transmissionMediumNotReady 24)
 (noAnswerOrBusy 25)
 (noRouteToGAPService 26)
 (gapServiceNotResponding 27)
 (courierProtocolMismatch 28)
 (gapVersionMismatch 29)))

```

---

COURIERPROGRAM INDEX

GAP .....1

---