

File created: 13-Dec-88 19:28:09 {ERINYES}<LISPUSERS>MEDLEY>GRAPHGROUP.;2

changes to: (FNS GraphGroup \GraphGroupGVisNSP \GraphGroupReadNSEntry \GraphGroupAux \GraphGroupReadFn
\GraphGroupReadMapping)

previous date: 8-Jul-88 11:10:20 {ERINYES}<LISPUSERS>LYRIC>GRAPHGROUP.;2

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

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(RPAQQ **GRAPHGROUPECOMS**

```
(( (VARS \GraphGroupGVtoNSRegistryMapping \NAMETYPE.NSGROUP \NAMETYPE.NSINDIVIDUAL)
  (FNS GraphGroup \GraphGroupGVisNSP \GraphGroupReadNSEntry)
  (FILES GRAPEVINE MAINTAIN)
  (DECLARE%: EVAL@COMPILE DONTCOPY (FILES (LOADCOMP)
                                          MAINTAIN)
           (MACROS \WIN))
  (FNS \GraphGroupAux \GraphGroupReadFn \GraphGroupReadMapping)))
```

(RPAQQ **\GraphGroupGVtoNSRegistryMapping**

```
(( (ALLAREAS . "ALL AREAS:XEROX")
  (AYLRX . "AYL:RX")
  (AYLTSDRX . "AYLTS:RX")
  (BRIDGEHOUSERXUK . "BRIDGE HOUSE:RXUK")
  (BROOKRIVER . "BROOKRIVER:XEROX")
  (BUSRX . "BUS:RX")
  (CB19RXF . "CB19:RXF")
  (CINOPS . "CIN OPS:XEROX")
  (DLOSCE . "DLOSCE:XEROX")
  (DLOSCSS . "DLOSCSS:XEROX")
  (DLOSETRON . "DLOSETRON:XEROX")
  (DLOSL300 . "DLOSL300:XEROX")
  (DLOSLC . "DLOSLC:XEROX")
  (DLOSLV . "DLOSLV:XEROX")
  (DLOSLV-COMM . "DLOSLV-COMM:XEROX")
  (DLOSNSC . "DLOSNSC:XEROX")
  (DTSSIEMENS . "DTS:SIEMENS")
  (EDSERVICES . "EDSERVICES:LEESBURG")
  (EIS . "EIS:VERSATEC")
  (ELSEGUNDO . "EL SEGUNDO:XEROX")
  (ESAREA . "ES AREA:XEROX")
  (ESCP8 . "ES CP8:XEROX")
  (ESGSDWCO . "ES GSD/WCO:XEROX")
  (ESM4RED . "ES M4 RED:XEROX")
  (ESPOORXSF . "ESPOO:RXSF")
  (ESXC15 . "ES XC15:XEROX")
  (ESXC16 . "ES XC16:XEROX")
  (ESXCOST . "ES XC OST:XEROX")
  (HENR801G . "HENR801G:XEROX")
  (HKRXS . "HK:RXS")
  (IHAIL . "IH:AIL")
  (IWAFFX . "IWA:FUJI XEROX")
  (NSC . "NSC:XEROX")
  (NSC-50 . "NSC-5.0:XEROX")
  (OSBUBAYSHORE . "OSBU BAYSHORE:XEROX")
  (OSBUNORTH . "OSBU NORTH:XEROX")
  (OSBURX . "OSBU:RX")
  (OSBUSOUTH . "OSBU SOUTH:XEROX")
  (OSDASSOCIATES . "OSD ASSOCIATES:XEROX")
  (OSSERVICE . "OS SERVICE:XEROX")
  (PAAREA . "PA AREA:XEROX")
  (PARC . "PARC:XEROX")
  (PARC-MES . "PARC-MES:XEROX")
  (PAVISITORS . "VISITORS PA:XEROX VISITORS")
  (PQANET1 . "PQANET1:XEROX")
  (PQANET2 . "PQANET2:XEROX")
  (PQANET3 . "PQANET3:XEROX")
  (RDES . "RDES:VERSATEC")
  (ROCH . "ROCH:XEROX")
  (ROCH805 . "ROCH805:XEROX")
  (ROCH888 . "ROCH888:XEROX")
  (RXH . "RXH:RX")
  (RXHRX . "RXH:RX")
  (SANDIEGOXCSS . "SAN DIEGO:XCSS")
  (SBDERX . "SBD-E:RX")
  (SBDRXN . "SBD:RXN")
  (SHINJUKUMIZUNOFX . "SHINJUKU MIZUNO:FUJI XEROX")
  (SOLNAMORXS . "SOLNA-MO:RXS")
  (STHQ . "STHQ:XEROX")
  (SUNNYVALE . "SUNNYVALE:XEROX")
```

```
(TESTLABORPNIDSIEMENS . "TESTLABOR PN ID:SIEMENS")
(TORHO . "TOR HO:XCI")
(TSC . "TSC:XEROX")
(VENIRX . "VENI:RX")
(VISTA . "VISTA:XEROX")
(WBST102A . "WBST102A:XEROX")
(WBST105 . "WBST105:XEROX")
(WBST105B . "WBST105B:XEROX")
(WBST114 . "WBST114:XEROX")
(WBST128 . "WBST128:XEROX")
(WBST129 . "WBST129:XEROX")
(WBST129UL . "WBST129UL:XEROX")
(WBST139 . "WBST139:XEROX")
(WBST147 . "WBST147:XEROX")
(WBST207V . "WBST207V:XEROX")
(WBST311 . "WBST311:XEROX")
(WBSTAREA . "WBST AREA:XEROX")
(WGCERX . "WGC-E:RX")
(WNDC . "WNDC:XEROX")
(XRCC-NS . "XRCC:XEROX")
(XSIS . "XSIS:XEROX")
(XSISHQ . "XSIS-HQ:XEROX")
(ZTISOFSIEMENS . "ZTISOF:SIEMENS")
(ZURICHRXCH . "ZURICH:RXCH"))
```

(RPAQQ \NAMETYPE.NSGROUP 3)

(RPAQQ \NAMETYPE.NSINDIVIDUAL 2)

(DEFINEQ

(GraphGroup

```
[LAMBDA (Group InfoStream LayoutOptions ExpandNSGroups IgnoreForwarding)
; Edited 13-Dec-88 19:09 by Briggs
(LET ((Entry (GV.READENTRY Group NIL (FUNCTION \GraphGroupReadFn)))
      GroupStructure)
      (SETQ GroupStructure (\GraphGroupAux Entry InfoStream ExpandNSGroups IgnoreForwarding))
      [SHOWGRAPH (LAYOUTSEXPR GroupStructure (LISTGET LayoutOptions 'FORMAT)
                          (LISTGET LayoutOptions 'BOXING)
                          (OR (LISTGET LayoutOptions 'FONT)
                              (FONTCREATE 'CLASSIC 10))
                          (LISTGET LayoutOptions 'MOTHERD)
                          (LISTGET LayoutOptions 'PERSONALD)
                          (LISTGET LayoutOptions 'FAMILYD])
              (AND InfoStream (FRESHLINE InfoStream))
              GroupStructure])
```

(\GraphGroupGVisNSP

```
[LAMBDA (Address)
(* N.H.Briggs "17-Aug-86 16:42")
(* determine if a name returned by Grapevine is in fact an NS
name)
(LET ((GVAddress (\GV.PARSERECEIPIENTS1 Address DEFAULTREGISTRY T)))
      (if (SETQ DomainAndOrganization (CDR (FASSOC (U-CASE (CDAR GVAddress))
                                                    \GraphGroupGVtoNSRegistryMapping)))
          then (CONCAT (CAAR GVAddress)
                      ":" DomainAndOrganization])
```

(\GraphGroupReadNSEntry

```
[LAMBDA (Address)
(* N.H.Briggs "17-Aug-86 16:33")
(LET [(Properties (CAR (NLSETQ (CH.LIST.PROPERTIES Address)
                              (if (MEMB 3 (CADR Properties))
                                  then
(* it's a group)
(LIST \NAMETYPE.NSGROUP (CAR Properties))
                              elseif (MEMB 10003 (CADR Properties))
                                  then
(* it's an individual)
(LIST \NAMETYPE.NSINDIVIDUAL (CAR Properties))
                              )
                              )
      )
```

(FILESLOAD GRAPEVINE MAINTAIN)

(DECLARE%: EVAL@COMPILE DONTCOPY

(FILESLOAD (LOADCOMP) MAINTAIN)

(DECLARE%: EVAL@COMPILE

```
(PUTPROPS \WIN MACRO ((Stream)
                      (LOGOR (LSH (\BIN Stream)
                                  8)
                              (\BIN Stream))))
```

)
)

(DEFINEQ

(\GraphGroupAux

```

[LAMBDA (Entry InfoStream ExpandNSGroups IgnoreForwarding) ; Edited 13-Dec-88 19:27 by Briggs
  (SELECTC (CAR Entry)
    (\NAMETYPE.INDIVIDUAL
      (AND InfoStream (printout InfoStream ".")
        [if (OR (NULL (CDDR Entry))
              IgnoreForwarding)
          then (MKATOM (CADR Entry))
          elseif (STRING-EQUAL (CADDR Entry)
                               "NoMailboxes.ms")
            then (LIST (MKATOM (CADR Entry))
                      "-no mailbox-")
          else ; there is forwarding
            (LIST (MKATOM (CADR Entry))
                  (LET [(FwdEntry (GV.READENTRY (CADDR Entry))
                       NIL
                       (FUNCTION \GraphGroupReadFn)
                       (if (EQ FwdEntry 'BadRName)
                           then (AND InfoStream (printout InfoStream "?")
                                                (MKATOM (CADDR Entry))
                                                else (\GraphGroupAux FwdEntry InfoStream NIL IgnoreForwarding))]
            (\NAMETYPE.NSINDIVIDUAL
              (AND InfoStream (printout InfoStream ".") ; isn't any forwarding in NS mail
                (MKATOM (CADR Entry)))
            (\NAMETYPE.GROUP
              [LET [(Members (GV.READMEMBERS (CADR Entry))
                    [AND InfoStream (printout InfoStream "[" (SUB1 (LENGTH Members)
                    (PROG1 [CONS (CADR Entry)
                                (for Member in Members when (NEQ (TYPENAME Member)
                                                                    'TIMESTAMP)
                                  collect (LET [(MemberEntry (GV.READENTRY Member NIL (FUNCTION \GraphGroupReadFn)
                                                                (if (EQ MemberEntry 'BadRName)
                                                                    then (if (AND ExpandNSGroups (SETQ MemberNSName (
                                                                                                      \GraphGroupGVisNSP
                                                                                                      Member))
                                                                                                      (SETQ MemberNSEnter (\GraphGroupReadNSEnter
                                                                                                      MemberNSName)))
                                                                    then (\GraphGroupAux MemberNSEnter InfoStream
                                                                                                      ExpandNSGroups IgnoreForwarding)
                                                                    else (AND InfoStream (printout InfoStream "?")
                                                                                                      (MKATOM Member))
                                                                    else (\GraphGroupAux MemberEntry InfoStream ExpandNSGroups
                                                                                                      IgnoreForwarding]
                                  (AND InfoStream (printout InfoStream "]" "))))))
            (\NAMETYPE.NSGROUP
              [LET [(Members (CH.RETRIEVE.MEMBERS (CADR Entry)
                                                                    'MEMBERS)
                    (AND InfoStream (printout InfoStream "[" (LENGTH Members)))
                    (PROG1 [CONS (CADR Entry)
                                (for Member in Members collect (LET ((MemberEntry (\GraphGroupReadNSEnter Member))
                                                                    (if (NULL MemberEntry)
                                                                        then (AND InfoStream (printout InfoStream
                                                                                                      "?")
                                                                                                      (MKATOM Member))
                                                                        else (\GraphGroupAux MemberEntry InfoStream
                                                                                                      ExpandNSGroups IgnoreForwarding]
                                  (AND InfoStream (printout InfoStream "]" "))))))
            NIL])

```

(\GraphGroupReadFn

```

[LAMBDA (Stream) ; (* N.H.Briggs "16-Jul-86 11:12")
  (LET (ComponentCount Result) ; (* Skip stamp)
    (\RECEIVESTAMP Stream T)
    (SETQ ComponentCount (\WIN Stream))

    (* There is a database entry. First component is the "prefix" %, which contains, among other things, the name's type and its
    "official" name)

    (\WIN Stream) ; (* Length of this component)
    (\RECEIVESTAMP Stream T) ; (* Skip stamp)
    (SETQ Result (LIST (\WIN Stream) ; (* return the component type and "official" name)
                       (\RECEIVERNAME Stream)))

    (if (EQ (CAR Result)
            \NAMETYPE.INDIVIDUAL)
        then ; (* should pick up forwarding info)
            (\SKIPCOMPONENT Stream) ; (* password)
            (\SKIPCOMPONENT Stream) ; (* connect site)
            (if (NOT (ZEROP (\WIN Stream)))
                then (NCONC1 Result (\RECEIVESTRING Stream (\WIN Stream))) ; (* forwarding)
            (to (IDIFFERENCE ComponentCount 4) do (\SKIPCOMPONENT Stream)) ; (* throw away the leftovers)
        else ; (* throw away the leftovers)
            (to (SUB1 ComponentCount) do (\SKIPCOMPONENT Stream)))

```

Result])

(\GraphGroupReadMapping

(* N.H.Briggs "14-Aug-86 23:14")

```
[LAMBDA NIL
  (LET ((Stream (OPENSTREAM "{INDIGO}<REGISTRAR>GV>GV-NS-MAPPING.TXT" 'INPUT))
        (NoSpaceReadTable (COPYREADTABLE 'ORIG))
        End)
    (SETSEPR (LIST (CHARCODE CR)
                  NIL NoSpaceReadTable)
             (SETBRK (LIST (CHARCODE CR)
                          NIL NoSpaceReadTable)
                  (SETQ End (FILEPOS "NS-to-GV Mappings:" Stream 1 NIL NIL NIL (UPPERCASEARRAY)))
                  (FILEPOS "GV-to-NS Mappings:" Stream 1 NIL NIL NIL (UPPERCASEARRAY))
                  (FILEPOS "." Stream NIL NIL NIL T)
                  (until (GREATERP (GETFILEPTR Stream)
                                   End)
                        collect (SETQ Registry (READ Stream))
                                (READ Stream)
                                (SKIPSEPRS Stream)
                                (SETQ DomainOrg (RSTRING Stream NoSpaceReadTable))
                                (FILEPOS "." Stream NIL NIL NIL T)
                                (CONS Registry DomainOrg))
                        )
    )
  (PUTPROPS GRAPHGROUP COPYRIGHT ("Xerox Corporation" 1986 1988))
```

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