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[Identification]
  OptionType = NetService
[Options]
  RAS
[GeneralConstants]
  Chosen          = "ON"
  NotChosen       = "OFF"
  TRUE            = 1
  FALSE           = 0
  NoTitle         = 0
  FLibraryErrCtl = 1
  OldVersionExisted = $(FALSE)
[FileConstants]
  HandleNull      = ""
  PORTSDLGHANDLE = $(HandleNull)
  RasServerOption = "Server"
  RasClientOption = "Client"
  RasAdminOption  = "Admin"
  RasClientAndServerOption = "ClientAndServer"
  !Manufacturer   = "Microsoft"
  !ProductMajorVersion = "4"
  !ProductMinorVersion = "0"
  ProductVersion  = $(!ProductMajorVersion)".$(!ProductMinorVersion)
  ProductOpSupport = 134
  NetEventDLL     = "%SystemRoot%\System32\netevent.dll"
  IoLogMsgDll     = "%SystemRoot%\System32\drivers\IoLogMsg.dll"
  !RasMsgDll      = "%SystemRoot%\System32\rasmsg.dll"
  !RasEventTypeSupported = 31
  !HideComponent = 1
  HideBindings   = 0
  fReviewBindings = 1
  !RasInfName    = "OEMNSVRA.INF"
  ProductFullInfName = $(!STF_CWDDIR)$(!RasInfName)
  RasDir         = $(!STF_CWDDIR)RAS
  ProductPath    = $(RasDir)"\"
  ProductRASName = "RAS"
  ProductRASImagePath = "%SystemRoot%\system32\ras"
  ProductRASSvcType = "service"
  NetRuleRASClass = "classRasService ""basic""
  NetRuleRASType = "RasService classRasService"
  NetRuleRASUse = "system"
  !ProductPCIMACName = "PCIMAC"
  ProductRASSVRName = "RemoteAccess"
  ProductRASSVRImagePath = "%SystemRoot%\system32\rassrv.exe"
  ProductRASSVRSvcType = "service"
  NetRuleRASSVRClass = "classRasServer ""basic""
  NetRuleRASSVRType = "RasServer classRasServer"
  NetRuleRASSVRUse = $(ProductRASSVRSvcType)
  NetRuleRASSVRBindForm = ""RasServer"" yes yes container"
  NetRuleRASSVRBindable = {"classRasServer netBiosTransport non non 100",+
  "classRasServer ipxTransport non non 100"}

  ProductRASMANNName = "RasMan"
  ProductRASMANNImagePath = "%SystemRoot%\system32\rasman.exe"
  ProductRASMANSvcType = "service"
  NetRuleRASMANNClass = "classRasManager ""basic""
  NetRuleRASMANNType = "RasManager classRasManager"
  NetRuleRASMANNUse = $(ProductRASMANSvcType)
  NetRuleRASMANNBindForm = ""RasManager"" yes no container"
  NetRuleRASMANNBindable = ""

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!ProductRASARPName           = "RasArp"
!ProductRASARPIImagePath     = "\SystemRoot\system32\drivers\rasarp.sys"
!ProductRASISNRIPName       = "NwlnkRip"
!ProductRASISNSAPName       = "NwSapAgent"
!ProductRASISNRIPImagePath  = "\SystemRoot\system32\drivers\nwlnkrip.sys"
!ProductRASISNSAPIImagePath = "%SystemRoot%\system32\services.exe"
!ProductRASAUTODIALName     = "RasAuto"
!ProductRASAUTODIALImagePath = "%SystemRoot%\system32\rasman.exe"
!ProductRASAUTODIALSvcType  = "service"
!ProductRASACDName          = "RasAcad"
!ProductRASACDImagePath    = "\SystemRoot\system32\drivers\rasacd.sys"
!ProductNDISWANName        = "Ndiswan"
!ProductNDISWANImagePath   = "\SystemRoot\system32\drivers\ndiswan.sys"
ProductNDISWANSvcType      = "kernel"
ProductNDISWANType         = "transport"
!NetRuleNDISWANType        = "ndiswanDrv ndiswanTransport"
!NetRuleNDISWANClass       = {"ndiswanTransport basic"}
NetRuleNDISWANUse          = $(ProductNDISWANType) "yes yes"
!NetRuleNDISWANBindForm    = "" "Ndiswan" "yes no container"
!NetRuleNDISWANBindable   = +
    {"rasCapableTransport ndiswanAdapterDialIn non non 100",+
    "rasCapableTransport ndiswanAdapterDialOut non non 100",+
    "tcpipTransport ndiswanAdapterDialInIP non non 100",+
    "tcpipTransport ndiswanAdapterDialOutIP non non 100",+
    "netbtTransport ndiswanAdapterDialInIP non non 100",+
    "netbtTransport ndiswanAdapterDialOutIP non non 100",+
    "ipxTransport ndiswanAdapterDialInOutIPX non non 100",+
    "bhService ndiswanAdapterBH non non 100",+
    "ndiswanTransport ndiswanAdapterBH non non 100",+
    "ndiswanTransport ndiswanAdapterDialIn non non 100",+
    "ndiswanTransport ndiswanAdapterDialOut non non 100",+
    "ndiswanTransport ndiswanAdapterDialInIP non non 100",+
    "ndiswanTransport ndiswanAdapterDialOutIP non non 100",+
    "ndiswanTransport ndiswanAdapterDialInOutIPX non non 100"}
ProductRASASYMACName       = "AsyncMac"
ProductRASASYMACImagePath  = "\SystemRoot\system32\drivers\asynccmac.sys"
ProductRASASYMACType       = "driver"
ProductRASASYMACSvcType    = "kernel"
NetRuleRASASYMACType       = "rasAsyMacDrv rasAsyMacDriver"
NetRuleRASASYMACClass      = {"rasAsyMacDriver basic"}
NetRuleRASASYMACUse        = $(ProductRASASYMACType)
NetRuleRASASYMACBindForm   = "" "RasAsyMac" "yes no container"
!NetRuleRASASYMACBindable = +
    {"rasAsyMacDriver rasAsyMacAdapter non non 100"}
!ProductRASHUBDIALINName   = "RasHubDialin"
!ProductRASHUBDIALOUTName  = "RasHubDialout"
!ProductRASHUBDIALINIPName = "RasHubDialinIp"
!ProductRASHUBDIALOUTIPName = "RasHubDialoutIp"
!ProductRASHUBDIALINOUTIPXName = "RasHubDialinoutIpx"
!ProductNDISWANDIALINName  = "NdiswanDialin"
!ProductNDISWANDIALOUTName = "NdiswanDialout"
!ProductNDISWANDIALINIPName = "NdiswanDialinIp"
!ProductNDISWANDIALOUTIPName = "NdiswanDialoutIp"
!ProductNDISWANDIALINOUTIPXName = "NdiswanDialinoutIpx"
!NetRuleHardwareBHType     = "ndiswanBH ndiswanAdapterBH"
!NetRuleHardwareBHClass    = {"ndiswanAdapterBH basic"}
!NetRuleHardwareBHBindForm = "yes yes container"
!NetRuleHardwareNDISWANBindForm = "yes yes container"
!NetRuleHardwareDIALINTYPE = "ndiswandialin ndiswanAdapterDialIn"

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!NetRuleHardwareDIALINClass      = {"ndiswanAdapterDialIn basic"}
!NetRuleHardwareDIALINBlock     = {"lanmanServer ndiswanAdapterDialIn",+
    "tcpipTransport ndiswanAdapterDialIn",+
    "netbtTransport ndiswanAdapterDialIn",+
    "ipxTransport ndiswanAdapterDialin",+
    "lanmanWorkstation ndiswanAdapterDialIn"}
!NetRuleHardwareDIALINIPIType   = "ndiswandialinIP ndiswanAdapterDialInIP"
!NetRuleHardwareDIALINIPClass   = {"ndiswanAdapterDialInIP basic"}
!NetRuleHardwareDIALINIPBlock   = {"lanmanServer ndiswanAdapterDialInIP",+
    "nbftTransport ndiswanAdapterDialinIP",+
    "ipxTransport ndiswanAdapterDialinIP",+
    "lanmanWorkstation ndiswanAdapterDialInIP"}
!NetRuleHardwareDIALOUTType     = "ndiswandialout ndiswanAdapterDialOut"
!NetRuleHardwareDIALOUTClass    = {"ndiswanAdapterDialOut basic"}
!NetRuleHardwareDIALOUTBlock    = {"ipxTransport ndiswanAdapterDialOut"}
!NetRuleHardwareDIALOUTIPIType  = "ndiswandialoutIP ndiswanAdapterDialOutIP"
!NetRuleHardwareDIALOUTIPClass  = {"ndiswanAdapterDialOutIP basic"}
!NetRuleHardwareDIALOUTIPBlock  = {"ipxTransport ndiswanAdapterDialOutIP",+
    "nbftTransport ndiswanAdapterDialOutIP"}
!NetRuleHardwareDIALINOUTIPIType = "ndiswandialinoutIPX
ndiswanAdapterDialInOutIPX"
!NetRuleHardwareDIALINOUTIPIXClass = {"ndiswanAdapterDialInOutIPX basic"}
!NetRuleHardwareDIALINOUTIPIXBlock = {"nbftTransport ndiswanAdapterDialInOutIPX",
+
    "tcpipTransport ndiswanAdapterDialInOutIPX",+
    "netbtTransport ndiswanAdapterDialInOutIPX"}
NetRuleHardwareRASASYMACType    = "rasAsyMac rasAsyMacAdapter"
NetRuleHardwareRASASYMACBindForm = " yes yes container"
NetRuleHardwareRASASYMACClass   = {"rasAsyMacAdapter basic"}
!ProductNDISTAPIName           = "NdisTapi"
!ProductNDISTAPIImagePath      = "\SystemRoot\system32\drivers\ndistapi.sys"
!RasPerfKeyName                 = "Performance"
!RasPerfLibraryName            = "rasctrs.dll"
!RasPerfOpenFunction           = "OpenRasPerformanceData"
!RasPerfCloseFunction          = "CloseRasPerformanceData"
!RasPerfCollectFunction        = "CollectRasPerformanceData"
!RasCounterFileName            = "rasctrs.ini"
ProductKeyBase = $(!NTN_SoftwareBase)"\"$(!Manufacturer)
ProductKeyName = $(!NTN_SoftwareBase)"\"$(!Manufacturer)"\"$(
(ProductRASName)"\CurrentVersion"
!NetworkCardKeyName            = $(!NTN_SoftwareBase)"\Microsoft\Windows NT\
CurrentVersion\NetworkCards"
RasSvrKeyName                  = $(!NTN_ServiceBase)"\"$(ProductRASSVRName)
RasSvrParamKeyName            = $(!NTN_ServiceBase)"\"$(ProductRASSVRName)"\
Parameters"
!RasManSvcKeyName              = $(!NTN_ServiceBase)"\"$(ProductRASMANNName)
!RasAcidKeyName                = $(!NTN_ServiceBase)"\"$(!ProductRASACDName)
!RasArpKeyName                 = $(!NTN_ServiceBase)"\"$(!ProductRASARPName)
!RasIsnRipKeyName              = $(!NTN_ServiceBase)"\"$(!ProductRASISNRIPName)
!RasIsnSapKeyName              = $(!NTN_ServiceBase)"\"$(!ProductRASISNSAPName)
!NdisTapiKeyName               = $(!NTN_ServiceBase)"\"$(!ProductNDISTAPIName)
!RasManKeyName                 = $(!NTN_SoftwareBase)"\"$(!Manufacturer)"\"$(
(ProductRASMANNName)"\CurrentVersion"
!RasAutodialKeyName           = $(!NTN_ServiceBase)"\"$(!ProductRASAUTODIALName)
RasManParamKeyName            = $(!NTN_ServiceBase)"\"$(ProductRASMANNName)"\
Parameters"
RasManLinkageKeyName          = $(!NTN_ServiceBase)"\"$(ProductRASMANNName)"\Linkage"
NdisWanParamKeyName           = $(!NTN_ServiceBase)"\"$(!ProductNDISWANName)"\
Parameters"

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    NdisWanLinkageKeyName = $(!NTN_ServiceBase)"\"$(!ProductNDISWANName)"\
Linkage"
    RasAsyMacKeyName      = $(!NTN_ServiceBase)"\"$(ProductRASASYMACName)
    RasAsyMacParamKeyName = $(!NTN_ServiceBase)"\"$(ProductRASASYMACName)"\
Parameters"
    RasMacLinkageKeyName  = $(!NTN_ServiceBase)"\"$(ProductRASASYMACName)"\
Linkage"
    RasTapiDevicesKeyName = $(!NTN_SoftwareBase)"\"$(!Manufacturer)"\"$(
(ProductRASName)"\TAPI DEVICES"
    LinkageKeyName        = $(!NTN_ServiceBase)"\"$(Product$(Option)Name)"\
Linkage"
    !ProductNDISWANKeyName = $(!NTN_SoftwareBase)"\"$(!Manufacturer)"\"$(!
ProductNDISWANName)"\CurrentVersion"
    ProductRASASYMACKeyName = $(!NTN_SoftwareBase)"\"$(!Manufacturer)"\"$(
(ProductRASASYMACName)"\CurrentVersion"
    RasProtocolsKeyName    = $(!NTN_SoftwareBase)"\"$(!Manufacturer)"\"$(
(ProductRASName)"\PROTOCOLS"
    !UtilityInf            = "UTILITY.INF"
    subroutninf           = "SUBROUTN.INF"
    RascfgDll             = "RASCFG.DLL"
    Exit_Code             = 0
    ShellCode             = 0
    from                  = ""
    to                    = ""
    ExitCodeOk            = 0
    ExitCodeCancel       = 1
    ExitCodeFatal        = 2
    KeyNull               = ""
    !MAXIMUM_ALLOWED     = 33554432
    !SERVICE_NO_CHANGE  = 4294967295
    RegistryErrorIndex   = NO_ERROR
    ServerSize           = 820116
    ClientSize           = 634260
    AdminSize            = 513962
    FInstallServer       = $(Chosen)
    FInstallClient       = $(Chosen)
    FInstallAdmin        = $(Chosen)
[UiVars]
    VolumeList           = {} ? $(!LIBHANDLE) GetHardDriveLetters
    VolumeFreeList       = {} ? $(!LIBHANDLE) GetHardDriveFreeSpace
    VolumeFSList         = {} ? $(!LIBHANDLE) GetHardDriveFileSystems
    DestVolume           = ""
    MinHelpID            = 25000
    MaxHelpID            = 25999
[SystemVars]
    !STF_PROCESSOR       = "" ? $(!LIBHANDLE) GetProcessor
    !STF_PLATFORM        = "" ? $(!LIBHANDLE) GetPlatform
    !STF_WINDOWSPATH     = "" ? $(!LIBHANDLE) GetWindowsNtDir
    !STF_NTPATH          = $(!STF_WINDOWSPATH)
    !STF_WINDOWSSYSPATH = "" ? $(!LIBHANDLE) GetWindowsNtSysDir
    !STF_COMPUTERNAME    = "" ? $(!LIBHANDLE) GetMyComputerName
    !STF_USERNAME        = "" ? $(!LIBHANDLE) GetMyUserName
    !STF_FLOPPYLIST      = {} ? $(!LIBHANDLE) GetFloppyDriveLetters
    !STF_UNUSEDDRIVES    = {} ? $(!LIBHANDLE) GetUnusedDrives
    !STF_LANGUAGE        = "" ? $(!LIBHANDLE) GetLanguage
    !STF_BUSTYPE         = "" ? $(!LIBHANDLE) GetMyBusType
    !STF_BUSTYPELIST     = "" ? $(!LIBHANDLE) GetMyBusTypeList
    !NTN_SoftwareBase    = "Software"
    !NTN_ServiceBase     = "System\CurrentControlSet\Services"

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!NTN_ScUseRegistry = "NO"
[AvailableSystemMemory]
SystemMemory = "" ? $(!LIBHANDLE) GetMemorySize
MinSystemMemory = 2048
[date]
!CurrentDate = {} ? $(!LIBHANDLE) GetSystemDate
[HelpContextIDs]
HC_RASOPTIONS = 25020
HC_CLIENTACCESS = 25021
HC_INSTALLLOVER1 = 25022
HC_INSTALLLOVER2 = 25023
[Identify]
read-syms Identification
set Status = STATUS_SUCCESSFUL
set Identifier = $(OptionType)
set Media = #("Source Media Descriptions", 1, 1)
Return $(Status) $(Identifier) $(Media)
[ReturnOptions]
set Status = STATUS_FAILED
set OptionList = {}
set OptionTextList = {}
set LanguageList = ^(LanguagesSupported, 1)
Ifcontains(i) $($0) in $(LanguageList)
goto returnoptions
Else
set Status = STATUS_NOLANGUAGE
goto finish_ReturnOptions
Endif
returnoptions = +
set OptionList = ^(Options, 1)
set OptionTextList = ^(OptionsText$($0), 1)
set Status = STATUS_SUCCESSFUL
finish_ReturnOptions = +
Return $(Status) $(OptionList) $(OptionTextList)
[Shell Commands]
set Exit_Code = $(!STF_ERROR_GENERAL)
LoadLibrary "x" $(!STF_SRCDIR)\setupdll.dll !LIBHANDLE
LoadLibrary "x" $(!STF_SRCDIR)\ncpa.cpl !NCPA_HANDLE
ifstr(i) $(!LIBHANDLE) == ""
Debug-Output "OEMNSVRA.INF: unable to load setupdll.dll"
Shell subroutn.inf, SetupMessage $(!STF_LANGUAGE) "FATAL" $
(UnableToLoadSetupDll)
set Exit_Code = STATUS_USERCANCEL
exit
endif
ifstr(i) $(!NCPA_HANDLE) == ""
Debug-Output "OEMNSVRA.INF: unable to load ncpa.cpl"
Shell subroutn.inf, SetupMessage $(!STF_LANGUAGE) "FATAL" $
(UnableToLoadNcpaCpl)
set Exit_Code = STATUS_USERCANCEL
exit
endif
ifstr(i) $(RAS_INSTALL_MODE) == ""
set RAS_INSTALL_MODE = install
endif
read-syms SystemVars
detect SystemVars
read-syms RasErrors$(!STF_LANGUAGE)
OpenRegKey $(!REG_H_LOCAL) "" "System\CurrentControlSet\Control\ProductOptions"

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33554432 KeyProductOption
  ifstr(i) $(KeyProductOption) != ""
    GetRegValue $(KeyProductOption) "ProductType" ProductTypeList
    set TempProductType = *($ (ProductTypeList),4)
    ifstr(i) $(TempProductType) == "winnt"
      set !STF_PRODUCT = WINNT
    else-ifstr(i) $(TempProductType) == "lanmannt"
      set !STF_PRODUCT = LANMANNT
    else-ifstr(i) $(TempProductType) == "servernt"
      set !STF_PRODUCT = SERVERNT
    else
      Debug-Output "OEMNSVRA.INF: invalid Product Type "$(TempProductType)
      Shell subroutn.inf, SetupMessage $(!STF_LANGUAGE) "FATAL" $
(UnknownProductType)
      set Exit_Code = STATUS_USERCANCEL
      exit
    endif
    CloseRegKey $(KeyProductOptions)
  else
    Debug-Output "OEMNSVRA.INF: unable to determine Product Type "
    Shell subroutn.inf, SetupMessage $(!STF_LANGUAGE) "FATAL" $(NoProductType)
    set Exit_Code = STATUS_USERCANCEL
    exit
  endif
  Debug-Output "OEMNSVRA.INF: Product Type "$( !STF_PRODUCT)
  ifstr(i) $(RAS_INSTALL_MODE) != "install"
    ifstr(i) $(RAS_INSTALL_MODE) != "configure"
      ifstr(i) $(RAS_INSTALL_MODE) != "deinstall"
        Debug-Output "OEMNSVRA.INF: Invalid RAS_INSTALL_MODE "$
(RAS_INSTALL_MODE)
        Shell subroutn.inf, SetupMessage $(!STF_LANGUAGE) "WARNING" $
(InvalidMode)
        set Exit_Code = STATUS_USERCANCEL
        exit
      endif
    endif
  endif
  set !NTN_InstallMode = $(RAS_INSTALL_MODE)
  Shell "" InstallOption $(!STF_LANGUAGE) "RAS" $(!STF_SRCDIR) "YES" "YES" "YES"
  ifint $($ShellCode) != $( !SHELL_CODE_OK)
    Debug-Output "OEMNSVRA.INF: Failed to shell out to InstallOption"
    exit
  endif
  set Exit_Code = $($R0)
  ifstr(i) $($R0) == STATUS_SUCCESSFUL
    set Exit_Code = 1
  endif
  Debug-Output "Oemnsvra.inf: install returned "$($R0)
  FreeLibrary $(!LIBHANDLE)
  FreeLibrary $(!NCPA_HANDLE)
  exit
[InstallOption]
  Debug-Output "In InstallOption section"
  set Status = STATUS_FAILED
  set Option = $($1)
  set SourceDir = $($2)
  set AddCopy = $($3)
  set DoCopy = $($4)
  set DoConfig = $($5)

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set LanguageList = ^(LanguagesSupported, 1)
Ifcontains(i) $($0) NOT-IN $(LanguageList)
    Return STATUS_NOLANGUAGE
endif
StartWait
set-subst LF = "\n"
read-syms UiVars
detect    UiVars
set !STF_NTPATH = $(!STF_WINDOWSSYSPATH)
GetDriveInPath !STF_NTDRIVE $(!STF_WINDOWSSYSPATH)
read-syms GeneralConstants
read-syms FileConstants
read-syms DialogConstants$(!STF_LANGUAGE)
read-syms FileConstants$(!STF_LANGUAGE)
read-syms RasErrors$(!STF_LANGUAGE)
detect date
read-syms HelpContextIDs
SetHelpFile $(!STF_CWDDIR)rasetup.hlp $(MinHelpID) $(MaxHelpID)
set-title $(FunctionTitle)
set to = Begin
set from = Begin
set CommonStatus = STATUS_SUCCESSFUL
Debug-Output "OEMNSVRA.INF: STF_CWDDIR is: "$( !STF_CWDDIR)
Debug-Output "OEMNSVRA.INF: STF_LANGUAGE is: "$( !STF_LANGUAGE)
Debug-Output "OEMNSVRA.INF: Option is: "$(Option)
Debug-Output "OEMNSVRA.INF: NTN_SoftwareBase is: "$( !NTN_SoftwareBase)
Debug-Output "OEMNSVRA.INF: NTN_ServiceBase is: "$( !NTN_ServiceBase)
Begin = +
set !NETCARD_LIST = {}
set ServerInstalled = FALSE
set ClientInstalled = FALSE
set AdminInstalled = FALSE
set DoServer = TRUE
set DoClient = TRUE
set DoAdmin = TRUE
set DoServerOnly = FALSE
set DoClientOnly = FALSE
set DoAdminOnly = FALSE
set DoRas = FALSE
set DoRasSvr = FALSE
set DoRasMan = FALSE
set DoNdisWan = FALSE
set DoRasAsyMac = FALSE
IfStr(i) $(!NTN_InstallMode) == deinstall
    Set StartLabel = RemoveRas
else-Ifstr(i) $(!NTN_InstallMode) == Update
    set StartLabel = UpgradeRas
else-Ifstr(i) $(!NTN_InstallMode) == configure
    set StartLabel = ConfigureRas
else-Ifstr(i) $(!NTN_InstallMode) == bind
    set StartLabel = BindingsRas
else
    set StartLabel = InstallRas
endif
set from = Begin
set to = end
goto $(StartLabel)
InstallRas = +
StartWait

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Debug-Output "In InstallRas Section"
Debug-Output "Origin is "$(!NTN_Origination)
Debug-Output "Install Mode "$(!NTN_InstallMode)
Debug-Output "Install phase "$(!NTN_InstallPhase)
Debug-Output "Copy Flag is "$(DoCopy)
Debug-Output "Option is "$(Option)
Debug-Output "SrcDir is "$(SourceDir)
Debug-Output "STF_WINDOWSPATH is "$(!STF_WINDOWSPATH)
Debug-Output "Context Inf name "$(STF_CONTEXTINFNAME)
Debug-Output "!STF_UNATTENDED is "$(!STF_UNATTENDED)
Debug-Output "!STF_GUI_UNATTENDED is "$(!STF_GUI_UNATTENDED)
Debug-Output "!STF_UNATTENDED_SECTION is "$(!STF_UNATTENDED_SECTION)
set RasComponentsList = {}
set NumInstalled = 0
OpenRegKey $(!REG_H_LOCAL) "" $(ProductKeyName) $(!MAXIMUM_ALLOWED) KeyProduct
Ifstr $(KeyProduct) != $(KeyNull)
    Ifstr(i) $(!NTN_InstallPhase) == primary
        set CommonStatus = STATUS_USERCANCEL
        goto end
    EndIf
    GetRegValue $(KeyProduct) "MajorVersion" VersionInfo
    set VersionMajor = *$(VersionInfo), 4)
    GetRegValue $(KeyProduct) "MinorVersion" VersionInfo
    set VersionMinor = *$(VersionInfo), 4)
    set InstalledVersion = $(VersionMajor)".$(VersionMinor)
    ifstr(i) $(ProductVersion) != $(InstalledVersion)
        Shell "" QueryRasUpgrade $(ProductRAsTitle) $(InstalledVersion) +
            $(ProductVersion)
        ifint $($ShellCode) != $(!SHELL_CODE_OK)
            goto ShellCodeError
        endif
        Ifstr(i) $($R1) == "OK"
            set from = InstallRas
            set to = InstallRas1
            goto RemoveRas
        else
            goto end
        endif
    endif
    shell "" QueryComponentsInstalled $(ProductKeyName)
    Ifstr(i) $($R0) == STATUS_SUCCESSFUL
        Set RasComponentsList = $($R1)
        Set InstalledFlags = $($R2)
        Set ServerInstalled = *$(InstalledFlags),1)
        Set ClientInstalled = *$(InstalledFlags),2)
        Set AdminInstalled = *$(InstalledFlags),3)
    Endif
    Debug-Output "Installed List is "$(RasComponentsList)
    Debug-Output "Installed Flags is "$(InstalledFlags)
    QueryListSize NumInstalled $(RasComponentsList)
    ifint $(NumInstalled) == 3
        read-syms VerExists$(!STF_LANGUAGE)
        set Text = $(Product$(Option)Title)$(Ver)$(ProductVersion)+
            $(Text1)
        Shell $(subroutninf), SetupMessage $(!STF_LANGUAGE) "NONFATAL" $(Text)
        Ifint $($ShellCode) != $(!SHELL_CODE_OK)
            Goto fatal
        Else-Ifstr(i) $($R0) == STATUS_FAILED
            Goto fatal

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        Else-Ifstr(i) $($R0) == STATUS_USERCANCEL
            Goto end
        Endif
        goto end
    endif
    CloseRegKey $(KeyProduct)
else
InstallRas1 =+
    set fRemoveRas    = TRUE
endif
goto memorycheck
setupabort = +
    read-syms SetupAbortDlg$(!STF_LANGUAGE)
    ui start "SetupAbort"
    ifstr(i) $(DLGEVENT) == "CONTINUE"
        ui pop 1
        Exit
    else
        ui pop 1
        Exit
    endif
memorycheck = +
    read-syms AvailableSystemMemory
    detect AvailableSystemMemory
    Debug-Output "Available Memory is "$(SystemMemory)
    IfInt $(SystemMemory) < $(MinSystemMemory)
        read-syms FatalErrorMem$(!STF_LANGUAGE)
        shell "subroutn.inf" SetupMessage $(!STF_LANGUAGE) "FATAL" $(Fatal)
        goto setupabort
    Else
        goto InstallNetwork
    EndIf
InstallNetwork =+
    ifstr(i) $(DoServer) == FALSE
        ifstr(i) $(DoClient) == FALSE
            goto CopyResources
        endif
    endif
    goto CopyResources
CopyResources = +
    ifstr(i) $(!NTN_InstallMode) == "install"
        Ifstr(i) $(DoCopy) == "YES"
            Shell $(!UtilityInf), DoAskSource, $(!STF_CWDDIR), $(SourceDir) YES
            Ifint $($ShellCode) != $(!SHELL_CODE_OK)
                Goto ShellCodeError
            Else-Ifstr(i) $($R0) == STATUS_FAILED
                Shell $(!UtilityInf) RegistryErrorString "ASK_SOURCE_FAIL"
                ifint $($ShellCode) != $(!SHELL_CODE_OK)
                    goto ShellCodeError
                endif
                set Error = $($R0)
                goto fatal
            Else-Ifstr(i) $($R0) == STATUS_USERCANCEL
                Goto end
            Endif
            Set !STF_SRCDIR = $($R1)
            Set SourceDir = $($R1)
            Debug-Output "SrcDir "$(SourceDir)
        endif

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    Debug-Output "OEMNSVRA.INF: Copying files"
    Install InstallResources
    ifstr(i) $(STF_INSTALL_OUTCOME) != STF_SUCCESS
        goto filecopycancel
    endif
    install InstallRasFiles
    ifstr(i) $(STF_INSTALL_OUTCOME) != STF_SUCCESS
        goto filecopycancel
    endif
endif
StartWait
ifstr(i) $(DoAdminOnly) == TRUE
    goto CommonCode
endif
goto PortsConfigure
ConfigureRas = +
    set OldVersionExisted = $(TRUE)
    read-syms StatusDeterminingConfig$(!STF_LANGUAGE)
    shell $(subroutninf) PushBillBoard NETSTATUSDLG $(ReadingConfig)
    Set BillboardVisible = 1
    StartWait
    shell "" QueryComponentsInstalled
    Ifstr(i) $($R0) == STATUS_SUCCESSFUL
        Set InstalledComps = $($R1)
        Set InstalledFlags = $($R2)
        Set DoServer      = *($InstalledFlags),1)
        Set DoClient     = *($InstalledFlags),2)
        Set DoAdmin      = *($InstalledFlags),3)
        Set DoServerOnly = *($InstalledFlags),4)
        Set DoClientOnly = *($InstalledFlags),5)
        Set DoAdminOnly  = *($InstalledFlags),6)
    Endif
    Set ServerInstalled = $(DoServer)
    Set ClientInstalled = $(DoClient)
    Set AdminInstalled  = $(DoAdmin)
    Debug-Output "DoServer" $(DoServer)
    Debug-Output "DoClient" $(DoClient)
    Debug-Output "DoAdmin" $(DoAdmin)
    Debug-Output "DoServerOnly" $(DoServerOnly)
    Debug-Output "DoClientOnly" $(DoClientOnly)
    Debug-Output "DoAdminOnly" $(DoAdminOnly)
    Ifint $(BillboardVisible) != 0
        Shell "subroutn.inf" PopBillboard
        Set BillboardVisible = 0
    Endif
    ifstr(i) $(DoAdminOnly) == TRUE
        read-syms NoConfigAdmin$(!STF_LANGUAGE)
        shell "subroutn.inf" SetupMessage $(!STF_LANGUAGE) "STATUS" $
(NoConfigAdmin)
        goto end
    endif
    goto PortsConfigure
PortsConfigure = +
    StartWait
    read-syms StatusDeterminingConfig$(!STF_LANGUAGE)
    shell $(subroutninf) PushBillBoard NETSTATUSDLG $(ReadingConfig)
    Set BillboardVisible = 1
    LoadLibrary "x" $(!STF_CWDDIR)rascfg.dll PORTSDLGHANDLE
    set Result = {}

```

```

set fNetcardInstalled = FALSE
shell "" IsNetcardInstalled
ifstr(i) $($R0) == STATUS_SUCCESSFUL
    set fNetcardInstalled = $($R1)
endif
Debug-Output "fNetcardInstalled Option "$fNetcardInstalled)
CheckProtocolsInstalled =+
shell "" QueryInstalledProtocols
ifstr(i) $($R0) == STATUS_SUCCESSFUL
    set fNetbeuiInstalled = $($R1)
    set fTcpIpInstalled    = $($R2)
    set fIpxInstalled      = $($R3)
else
    read-syms QueryInstalledProtocolsError$(!STF_LANGUAGE)
    shell $(subroutninf) SetupMessage $(!STF_LANGUAGE) "FATAL" $(Text)
    goto end
endif
Ifint $(BillboardVisible) != 0
    Shell "subroutn.inf" PopBillboard
    Set BillboardVisible = 0
Endif
Debug-Output "!STF_UNATTENDED is "$(!STF_UNATTENDED)
Debug-Output "!STF_GUI_UNATTENDED is "$(!STF_GUI_UNATTENDED)
Debug-Output "!STF_UNATTENDED_SECTION is "$(!STF_UNATTENDED_SECTION)
LibraryProcedure Result, $(PORTSDLGHANDLE), RasPortsConfig $(!STF_HWND) +
    $(!NTN_InstallMode) $(fNetcardInstalled) $(ProductPath) +
    $(fNetbeuiInstalled) $(fTcpIpInstalled) $(fIpxInstalled) +
    $(!STF_GUI_UNATTENDED) $(!STF_UNATTENDED) $(!
STF_UNATTENDED_SECTION)
StartWait
set NewNumPorts    = 0
set NewNumTapiPorts = 0
set NewNumDialoutNBF = 0
set NewNumDialinNBF = 0
set NewNumDialinIP = 0
set NewNumDialoutIP = 0
set NewNumDialinoutIPX = 0
set fSerialInstalled = FALSE
set fUnimodemInstalled = FALSE
set fOtherInstalled = FALSE
set fNetbeuiChosen = FALSE
set fTcpIpChosen = FALSE
set fIpxChosen = FALSE
set fNetbeuiSelected = FALSE
set fTcpIpSelected = FALSE
set fIpxSelected = FALSE
set fNetbeuiAllowed = FALSE
set fTcpIpAllowed = FALSE
set fIpxAllowed = FALSE
set NewNumPorts    = *$(Result),1)
set NewNumTapiPorts = *$(Result),2)
set NewNumPortsList = {}
set NullString    = ""
Debug-Output "PortsConfigure returned: "$(Result)
Debug-Output "PortsConfigure NewNumPorts: "$(NewNumPorts)
Debug-Output "PortsConfigure NewNumTapiPorts: "$(NewNumTapiPorts)
ifstr(i) $(NewNumPorts) == "EXITSETUP"
    Debug-Output "PortsConfigure User selected ExitSetup."
    goto RemoveDiskFiles

```

```

else-ifstr(i) $(NewNumPorts) == "NOPORTS"
    Debug-Output "PortsConfigure: No serial ports detected."
    shell $(subroutninf) SetupMessage $(!STF_LANGUAGE) "NONFATAL" $
(ErrorNoPorts)
    goto RemoveDiskFiles
else-ifstr(i) $(NewNumPorts) == "BADARGS"
    Debug-Output "PortsConfigure: bad arguments to dll."
    shell $(subroutninf) SetupMessage $(!STF_LANGUAGE) "NONFATAL" $
(ErrorBadArgs)
    goto RemoveDiskFiles
else-ifstr(i) $(NewNumPorts) == "FAILURE"
    Debug-Output "PortsConfigure: Unknown failure."
    shell $(subroutninf) SetupMessage $(!STF_LANGUAGE) "NONFATAL" $
(ErrorUnknown)
    goto RemoveDiskFiles
endif
goto PortsConfigure1
RemoveDiskFiles = +
set CommonStatus = STATUS_USERCANCEL
ifstr(i) $(!NTN_InstallMode) == "install"
    goto filecopycancel
endif
goto end
PortsConfigure1 = +
set NewNumDialoutNBF = *$(Result),3)
Debug-Output "PortsConfigure NewNumDialoutNBF: "$(NewNumDialoutNBF)
set NewNumDialinNBF = *$(Result),4)
Debug-Output "PortsConfigure NewNumDialinNBF: "$(NewNumDialinNBF)
set fSerialInstalled = *$(Result),5)
Debug-Output "PortsConfigure fSerialInstalled: "$(fSerialInstalled)
set fUnimodemInstalled = *$(Result),6)
Debug-Output "PortsConfigure fUnimodemInstalled: "$(fUnimodemInstalled)
set fOtherInstalled = *$(Result),7)
Debug-Output "PortsConfigure fOtherInstalled: "$(fOtherInstalled)
ifstr(i) $(fSerialInstalled) == TRUE
    set NewNumPortsList = >$(NewNumPortsList), $(NullString)$$(NewNumPorts)$
(NullString))
else-ifstr(i) $(fOtherInstalled) == TRUE
    set NewNumPortsList = >$(NewNumPortsList), $(NullString)$$(NewNumPorts)$
(NullString))
else-ifstr(i) $(fUnimodemInstalled) == TRUE
    set NewNumPortsList = >$(NewNumPortsList), $(NullString)$$(NewNumPorts)$
(NullString))
endif
set fNetbeuiSelected = *$(Result),8)
Debug-Output "PortsConfigure NetbeuiSelected: "$(fNetbeuiSelected)
set fTcpIpSelected = *$(Result),9)
Debug-Output "PortsConfigure TcpIpSelected: "$(fTcpIpSelected)
set fIpxSelected = *$(Result),10)
Debug-Output "PortsConfigure IpxSelected: "$(fIpxSelected)
set fNetbeuiAllowed = *$(Result),11)
Debug-Output "PortsConfigure NetbeuiAllowed: "$(fNetbeuiAllowed)
set fTcpIpAllowed = *$(Result),12)
Debug-Output "PortsConfigure TcpIpAllowed: "$(fTcpIpAllowed)
set fIpxAllowed = *$(Result),13)
Debug-Output "PortsConfigure IpxAllowed: "$(fIpxAllowed)
ifstr(i) $(fNetbeuiSelected) == TRUE
    set fNetbeuiChosen = TRUE
else

```

```

        set fNetbeuiChosen = $(fNetbeuiAllowed)
    endif
    ifstr(i) $(fTcpIpSelected) == TRUE
        set fTcpIpChosen = TRUE
    else
        set fTcpIpChosen = $(fTcpIpAllowed)
    endif
    ifstr(i) $(fIpxSelected) == TRUE
        set fIpxChosen = TRUE
    else
        set fIpxChosen = $(fIpxAllowed)
    endif
    ifstr(i) $(fTcpIpSelected) == TRUE
        set NewNumDialoutIP = $(NewNumDialoutNBF)
    endif
    ifint $(NewNumDialinNBF) != 0
        ifstr(i) $(fTcpIpAllowed) == TRUE
            set NewNumDialinIP = 1
        endif
    endif
    Debug-Output "NewNumDialinIP: "$(NewNumDialinIP)
    Debug-Output "NewNumDialoutIP: "$(NewNumDialoutIP)
    ifstr(i) $(fIpxChosen) == TRUE
        set NewNumDialinoutIPX = 1
        Debug-Output "IPX Selected - NewNumDialinoutIPX: "$(NewNumDialinoutIPX)
    endif
    ifstr(i) $(fIpxAllowed) == TRUE
        set EnableIpxRouter = 1
    else
        set EnableIpxRouter = 0
    endif
    ifstr(i) $(fNetbeuiAllowed) == FALSE
        set NewNumDialinNBF = 0
    endif
    ifstr(i) $(fNetbeuiSelected) == FALSE
        set NewNumDialoutNBF = 0
    endif
    Debug-Output "NewNumDialinNbf: "$(NewNumDialinNBF)
    Debug-Output "NewNumDialoutNbf: "$(NewNumDialoutNBF)
    set NetBiosGtwyEnabled = 0
    set EnableIpRouter      = 0
    set EnableWanRouter     = 0
    Shell "" GetNetworkAccess
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "error shelling GetNetworkAccess."
        goto ShellCodeError
    endif
    set NetBiosGtwyEnabled = $($R1)
    set EnableIpRouter     = $($R2)
    set EnableWanRouter    = $($R3)
    ifint $(NetBiosGtwyEnabled) == 0
        ifstr(i) $(fNetbeuiAllowed) == TRUE
            set-add NewNumDialoutNBF = $(NewNumDialoutNBF), $(NewNumDialinNBF)
            set      NewNumDialinNBF = 0
            Debug-Output "Mapped dialin ports to dialout ports "$(NewNumDialoutNBF)
        endif
    endif
    set NewNumDialin = 0
    set NewNumDialout = 0

```

```

set-add NewNumDialin = $(NewNumDialinNBF), $(NewNumDialinIP)
ifstr(i) $(fIpxAllowed) == TRUE
    set-add NewNumDialin = $(NewNumDialin), $(NewNumDialinoutIPX)
endif
set-add NewNumDialout = $(NewNumDialoutNBF), $(NewNumDialoutIP)
ifstr(i) $(fIpxSelected) == TRUE
    set-add NewNumDialout = $(NewNumDialout), $(NewNumDialinoutIPX)
endif
ifstr(i) $(fNetcardInstalled) == FALSE
    ifint $(NewNumDialin) != 0
        ifstr(i) $(!STF_INSTALL_MODE) != EXPRESS
            read-syms InstallLoopback$(!STF_LANGUAGE)
            Shell $(subroutninf) SetupMessage, $(!STF_LANGUAGE), "STATUS", $
(Message)
        else
            set AddCopy = YES
            set DoCopy = YES
            set DoConfig = YES
            set SaveNTN_InstallMode = $(!NTN_InstallMode)
            set !NTN_InstallMode = install
            Shell "oemnadlb.inf" InstallOption $(!STF_LANGUAGE) "LOOP" $(!
STF_SRCDIR) $(AddCopy) $(DoCopy) $(DoConfig)
            set !NTN_InstallMode = $(SaveNTN_InstallMode)
            Ifint $(ShellCode) != $(!SHELL_CODE_OK)
                Debug-Output "OEMNSVRA.INF: INF oemnadlb.inf SHELL ERROR!"
                read-syms InstallLoopback$(!STF_LANGUAGE)
                Shell $(subroutninf) SetupMessage, $(!STF_LANGUAGE), "STATUS", $
(Error)
            Endif
        EndIf
    endif
endif
goto CommonCode
CommonCode = +
ifstr(i) $(OldVersionExisted) == $(TRUE)
    ifstr(i) $(!NTN_InstallMode) == configure
        goto WriteParameters
    endif
endif
QueryListSize ListCount $(RasComponentsList)
ifint $(ListCount) == 0
    goto FirstTimeInstall
else
    ifstr(i) $(DoServer) == TRUE
        ifstr(i) $(ClientInstalled) == FALSE
            ifstr(i) $(AdminInstalled) == FALSE
                set DoRas = TRUE
            endif
            set DoRasSvr = TRUE
            set DoRasMan = TRUE
            set DoNdisWan = TRUE
            set DoRasAsyMac = TRUE
        else
            set DoRasSvr = TRUE
        endif
        set RasComponentsList = >$(RasComponentsList), $(RasServerOption))
    endif
    ifstr(i) $(DoClient) == TRUE
        ifstr(i) $(ServerInstalled) == FALSE

```

```

        ifstr(i) $(AdminInstalled) == FALSE
            set DoRas = TRUE
        endif
        set DoRasMan = TRUE
        set DoNdisWan = TRUE
        set DoRasAsyMac = TRUE
    endif
    set RasComponentsList = >($(RasComponentsList), $(RasClientOption))
endif
ifstr(i) $(DoAdmin) == TRUE
    ifstr(i) $(ServerInstalled) == FALSE
        ifstr(i) $(ClientInstalled) == FALSE
            set DoRas = TRUE
        endif
    endif
    set RasComponentsList = >($(RasComponentsList), $(RasAdminOption))
endif
shell "" UpdateComponentsInstalled $(RasComponentsList) $(ProductKeyName)
goto FirstTimeInstall-1
endif
FirstTimeInstall +=
ifstr(i) $(DoServer) == TRUE
    set DoRas = TRUE
    set DoRasSvr = TRUE
    set DoRasMan = TRUE
    set DoRasAutodial = TRUE
    set DoNdisWan = TRUE
    set DoRasAsyMac = TRUE
    set RasComponentsList = >($(RasComponentsList), $(RasServerOption))
endif
ifstr(i) $(DoClient) == TRUE
    set DoRas = TRUE
    set DoRasMan = TRUE
    set DoRasAutodial = TRUE
    set DoNdisWan = TRUE
    set DoRasAsyMac = TRUE
    set RasComponentsList = >($(RasComponentsList), $(RasClientOption))
endif
ifstr(i) $(DoAdmin) == TRUE
    set DoRas = TRUE
    set RasComponentsList = >($(RasComponentsList), $(RasAdminOption))
endif
FirstTimeInstall-1 = +
ifstr(i) $(DoRas) == TRUE
    StartWait
    read-syms StatusUpdatingRegistry$(!STF_LANGUAGE)
    shell $(subroutninf) PushBillBoard NETSTATUSDLG $(CreatingRas)
    Set BillboardVisible = 1
    set ThisOption = RAS
    Shell $(!UtilityInf), InstallSoftwareProduct, $(!Manufacturer),+
        $(Product$(ThisOption)Name), $(!RasInfName)
    ifint $(ShellCode) != $(SHELL_CODE_OK)
        Debug-Output "InstallSoftware bombed out."
        goto ShellCodeError
    endif
    set RegistryErrorIndex = $(R0)
    Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
        Debug-Output "REGISTRY GOODAL"
        CloseRegKey $(R1)

```

```

        CloseRegKey $($R2)
        goto fatalregistry
    endif
    Set SoftProductKey      = $($R1)
    Set SoftNetRuleKey     = $($R2)
    set NewValueList = +
        {{Infname ,$(NoTitle),$(!REG_VT_SZ),$(!RasInfName)},+
        {SoftwareType,$(NoTitle),$(!REG_VT_SZ),+
        $(Product$(ThisOption)SvcType)},+
        {Title,$(NoTitle),$(!REG_VT_SZ), $(Product$(ThisOption)Title)},+
        {Description,$(NoTitle),$(!REG_VT_SZ),+
        $(Product$(ThisOption)Description)},+
        {PathName,$(NoTitle),$(!REG_VT_SZ),+
        $(Product$(ThisOption)ImagePath)},+
        {MajorVersion,$(NoTitle),$(!REG_VT_DWORD),$(!ProductMajorVersion)},+
        {MinorVersion,$(NoTitle),$(!REG_VT_DWORD),$(!ProductMinorVersion)},+
        {RasComponents,$(NoTitle),$(!REG_VT_MULTI_SZ),$(RasComponentsList)},+
        {OperationsSupport,$(NoTitle),$(!REG_VT_DWORD),$(ProductOpSupport)}, +
        {InstallDate,$(NoTitle),$(!REG_VT_DWORD),*$(!CurrentDate),1}}
    Shell $(!UtilityInf), AddValueList, $(SoftProductKey), $(NewValueList)
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        CloseRegKey $(SoftProductKey)
        CloseRegKey $(SoftNetRuleKey)
        goto ShellCodeError
    endif
    set RegistryErrorIndex = $($R0)
    CloseRegKey $(SoftProductKey)
    Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
        CloseRegKey $(SoftNetRuleKey)
        goto fatalregistry
    endif
    set NewValueList = +
        {{class, $(NoTitle), $(!REG_VT_SZ), $(NetRule$(ThisOption)Class)},+
        {type,$(NoTitle),$(!REG_VT_SZ),$(NetRule$(ThisOption)Type)},+
        {use,$(NoTitle),$(!REG_VT_SZ),$(NetRule$(ThisOption)Use)}, +
        {InfOption,$(NoTitle),$(!REG_VT_SZ),$(ThisOption)}, +
        {Infname ,$(NoTitle),$(!REG_VT_SZ),$(!RasInfName)}}
    Shell $(!UtilityInf), AddValueList, $(SoftNetRuleKey), $(NewValueList)
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        goto ShellCodeError
    endif
    set RegistryErrorIndex = $($R0)
    CloseRegKey $(SoftNetRuleKey)
    Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
        goto fatalregistry
    endif
endif
ifstr(i) $(DoRasSvr) == TRUE
    set ThisOption = RASSVR
    set RasSpecificString = $(Product$(ThisOption)Name)
    Shell $(!UtilityInf), AddSoftwareComponent, $(!Manufacturer), +
        $(Product$(ThisOption)Name), $(Product$(ThisOption)Name), +
        $(Product$(ThisOption)DisplayName), +
        $(!RasInfName), $(Product$(ThisOption)ImagePath),+
        "service", "Network", {"LanmanServer","RasMan"}, "", +
        $(!RasMsgDll), $(!RasEventTypeSupported)
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "DoRasSvr: AddSoftware bombed out"
        goto ShellCodeError
    endif
endif

```



```

endif
set RegistryErrorIndex = $($R0)
Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
    Debug-Output "DoRasSvr: Registry Error "$($RegistryErrorIndex)
    CloseRegKey $($R1)
    CloseRegKey $($R2)
    CloseRegKey $($R3)
    CloseRegKey $($R4)
    CloseRegKey $($R5)
    goto fatalregistry
endif
Set SoftProductKey      = $($R1)
Set SoftNetRuleKey     = $($R2)
set SoftServiceKey     = $($R3)
Set SoftParamsKey     = $($R4)
Set SoftLinkageKey     = $($R5)
set NewValueList = +
    {{Infname ,$(NoTitle),$(!REG_VT_SZ),$(!RasInfName)},+
    {ServiceName,$(NoTitle),$(!REG_VT_SZ),+
    $(Product$(ThisOption)Name)},+
    {SoftwareType,$(NoTitle),$(!REG_VT_SZ),+
    $(Product$(ThisOption)SvcType)},+
    {Title,$(NoTitle),$(!REG_VT_SZ),$(Product$(ThisOption)Title)},+
    {Description,$(NoTitle),$(!REG_VT_SZ),+
    $(Product$(ThisOption)Description)},+
    {PathName,$(NoTitle),$(!REG_VT_SZ),+
    $(Product$(ThisOption)ImagePath)},+
    {MajorVersion,$(NoTitle),$(!REG_VT_DWORD),$(!ProductMajorVersion)},+
    {MinorVersion,$(NoTitle),$(!REG_VT_DWORD),$(!ProductMinorVersion)},+
    {InstallDate,$(NoTitle),$(!REG_VT_DWORD),*$(!CurrentDate),1)},+
    {Hidden,$(NoTitle),$(!REG_VT_DWORD),$(!HideComponent)}}
Shell $(!UtilityInf), AddValueList, $(SoftProductKey), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "DoRasSvr:product: AddValueList bombed out"
    goto ShellCodeError
endif
set RegistryErrorIndex = $($R0)
CloseRegKey $(SoftProductKey)
Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
    Debug-Output "DoRasSvr: Registry Error "$($RegistryErrorIndex)
    CloseRegKey $(SoftServiceKey)
    CloseRegKey $(SoftNetRuleKey)
    CloseRegKey $(SoftLinkageKey)
    CloseRegKey $(SoftParamsKey)
    goto fatalregistry
endif
set NewValueList = +
    {{class, $(NoTitle), $(!REG_VT_SZ), $(NetRule$(ThisOption)Class)},+
    {type,$(NoTitle),$(!REG_VT_SZ),$(NetRule$(ThisOption)Type)},+
    {use,$(NoTitle),$(!REG_VT_SZ),$(NetRule$(ThisOption)Use)}, +
    {InfOption,$(NoTitle),$(!REG_VT_SZ),$(ThisOption)}, +
    {bindform,$(NoTitle),$(!REG_VT_SZ),+
    $(NetRule$(ThisOption)BindForm)}, +
    {bindable,$(NoTitle),$(!REG_VT_MULTI_SZ),+
    $(NetRule$(ThisOption)Bindable)}, +
    {Infname ,$(NoTitle),$(!REG_VT_SZ),$(!RasInfName)}}
Shell $(!UtilityInf), AddValueList, $(SoftNetRuleKey), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "DoRasSvr:netrules: AddValueList bombed out"

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        goto ShellCodeError
    endif
    set RegistryErrorIndex = $($R0)
    CloseRegKey $(SoftNetRuleKey)
    Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
        CloseRegKey $(SoftServiceKey)
        CloseRegKey $(SoftLinkageKey)
        CloseRegKey $(SoftParamsKey)
        Debug-Output "DoRasSvr: Registry Error "$(RegistryErrorIndex)
        goto fatalregistry
    endif
    set RasDependencies = {"LanmanServer", "RasMan"}
    OpenRegKey $(!REG_H_LOCAL) "" $(!INTN_ServiceBase)"\NetBios" $(!
MAXIMUM_ALLOWED) KeyNetBios
    ifstr $(KeyNetBios) != $(KeyNull)
        set RasDependencies = >($(RasDependencies), "NetBios")
    endif
    Debug-Output "DoRasSvr: Adding RasDependencies "$(RasDependencies)
    set NewValueList = +
        {{OtherDependencies, $(NoTitle), $(!REG_VT_MULTI_SZ),+
        $(RasDependencies)}}
    Shell $(!UtilityInf), AddValueList, $(SoftLinkageKey), $(NewValueList)
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "DoRasSvr:Linkage: AddValueList bombed out"
        goto ShellCodeError
    endif
    set RegistryErrorIndex = $($R0)
    CloseRegKey $(SoftLinkageKey)
    Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
        CloseRegKey $(SoftServiceKey)
        Debug-Output "DoRasSvr: Registry Error "$(RegistryErrorIndex)
        goto fatalregistry
    endif
    set NewValueList = +
        {{AuthenticateRetries, $(NoTitle), $(!REG_VT_DWORD), 2},+
        {AuthenticateTime, $(NoTitle), $(!REG_VT_DWORD), 120},+
        {Autodisconnect, $(NoTitle), $(!REG_VT_DWORD), 20},+
        {EnableAudit, $(NoTitle), $(!REG_VT_DWORD), 1},+
        {CallbackTime, $(NoTitle), $(!REG_VT_DWORD), 2}}
    Shell $(!UtilityInf), AddValueList, $(SoftParamsKey), $(NewValueList)
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "AddValueList bombed out"
        goto ShellCodeError
    endif
    set RegistryErrorIndex = $($R0)
    Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
        CloseRegKey $(SoftServiceKey)
        goto fatalregistry
    endif
    OpenRegKey $(SoftParamsKey) "" "NetBiosGateway" $(!MAXIMUM_ALLOWED)
KeyNetbiosGtwy
    ifstr $(KeyNtbiosGtwy) == $(KeyNull)
        CreateRegKey $(SoftParamsKey) {"NetBiosGateway", $
(NoTitle), GenericClass} "" $(!MAXIMUM_ALLOWED) "" KeyNetbiosGtwy
        OpenRegKey $(SoftParamsKey) "" "NetBiosGateway" $(!MAXIMUM_ALLOWED)
KeyNetbiosGtwy
    endif
    set NewValueList = +
        {{EnableBroadcast, $(NoTitle), $(!REG_VT_DWORD), 0},+

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    {EnableNetbiosSessionsAuditing, $(NoTitle), $(!REG_VT_DWORD), 0},+
    {MaxDynMem, $(NoTitle), $(!REG_VT_DWORD), 655350},+
    {MaxNames, $(NoTitle), $(!REG_VT_DWORD), 255},+
    {MaxSessions, $(NoTitle), $(!REG_VT_DWORD), 255},+
    {MulticastForwardRate, $(NoTitle), $(!REG_VT_DWORD), 5},+
    {SizWorkbuf, $(NoTitle), $(!REG_VT_DWORD), 4500},+
    {RemoteListen, $(NoTitle), $(!REG_VT_DWORD), 1},+
    {NameUpdateTime, $(NoTitle), $(!REG_VT_DWORD), 120},+
    {MaxDgBufferedPerGroupName, $(NoTitle), $(!REG_VT_DWORD), 10},+
    {RcvDgSubmittedPerGroupName, $(NoTitle), $(!REG_VT_DWORD), 3},+
    {DisableMcastFwdWhenSessionTraffic, $(NoTitle), $(!REG_VT_DWORD), 1},+
    {MaxBcastDgBuffered, $(NoTitle), $(!REG_VT_DWORD), 32},+
    {NumRecvQueryIndications, $(NoTitle), $(!REG_VT_DWORD), 3}}
Shell $(!UtilityInf), AddValueList, $(KeyNetbiosGtwy), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "AddValueList bombed out"
    goto ShellCodeError
endif
set RegistryErrorIndex = $($R0)
Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
    CloseRegKey $(SoftServiceKey)
    goto fatalregistry
endif
CloseRegKey $(KeyNetbiosGtwy)
CloseRegKey $(SoftParamsKey)
Shell "" UpdatePerfmonInfoHelper $(SoftServiceKey)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "error shelling UpdatePerfmonInfoHelper."
    goto ShellCodeError
endif
Ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "error returned by UpdatePerfmonInfoHelper."
endif
CloseRegKey $(SoftServiceKey)
endif
InstallRasMan = +
ifstr(i) $(DoRasMan) == TRUE
    set ThisOption = RASMAN
    set RasSpecificString = $(Product$(ThisOption)Name)
    Shell $(!UtilityInf), AddSoftwareComponent, $(!Manufacturer), +
        $(Product$(ThisOption)Name), $(Product$(ThisOption)Name), +
        $(Product$(ThisOption)DisplayName), +
        $(!RasInfName), $(Product$(ThisOption)ImagePath), "serviceshare",+
        "Network", {}, "", $(!RasMsgDll), $(!RasEventTypeSupported)
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "AddSoftware bombed out"
        goto ShellCodeError
    endif
    set RegistryErrorIndex = $($R0)
    Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
        CloseRegKey $($R1)
        CloseRegKey $($R2)
        CloseRegKey $($R3)
        CloseRegKey $($R4)
        CloseRegKey $($R5)
        goto fatalregistry
    endif
    Set SoftProductKey = $($R1)
    Set SoftNetRuleKey = $($R2)

```

```

CloseRegKey $($R3)
Set SoftParamsKey      = $($R4)
CloseRegKey $($R5)
set NewValueList = +
  {{Infname ,$(NoTitle),$(!REG_VT_SZ),$(!RasInfName)},+
  {ServiceName,$(NoTitle),$(!REG_VT_SZ),+
  $(Product$(ThisOption)Name)},+
  {SoftwareType,$(NoTitle),$(!REG_VT_SZ),+
  $(Product$(ThisOption)SvcType)},+
  {Title,$(NoTitle),$(!REG_VT_SZ),$(Product$(ThisOption)Title)},+
  {Description,$(NoTitle),$(!REG_VT_SZ),+
  $(Product$(ThisOption)Description)},+
  {PathName,$(NoTitle),$(!REG_VT_SZ),+
  $(Product$(ThisOption)ImagePath)},+
  {MajorVersion,$(NoTitle),$(!REG_VT_DWORD),$(!ProductMajorVersion)},+
  {MinorVersion,$(NoTitle),$(!REG_VT_DWORD),$(!ProductMinorVersion)},+
  {Review, $(NoTitle), $(!REG_VT_DWORD), $(fReviewBindings)}, +
  {InstallDate,$(NoTitle),$(!REG_VT_DWORD),*$(!CurrentDate),1}},+
  {Hidden,$(NoTitle),$(!REG_VT_DWORD),$(!HideComponent)}}}
Shell $(!UtilityInf), AddValueList, $(SoftProductKey), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
  Debug-Output "AddValueList bombed out"
  goto ShellCodeError
endif
set RegistryErrorIndex = $($R0)
CloseRegKey $(SoftProductKey)
Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
  CloseRegKey $(SoftNetRuleKey)
  CloseRegKey $(SoftParamsKey)
  goto fatalregistry
endif
set NewValueList = +
  {{class, $(NoTitle), $(!REG_VT_SZ), $(NetRule$(ThisOption)Class)},+
  {type,$(NoTitle),$(!REG_VT_SZ),$(NetRule$(ThisOption)Type)},+
  {use,$(NoTitle),$(!REG_VT_SZ),$(NetRule$(ThisOption)Use)}, +
  {bindform,$(NoTitle),$(!REG_VT_SZ),+
  $(NetRule$(ThisOption)BindForm)}, +
  {bindable,$(NoTitle),$(!REG_VT_SZ),+
  $(NetRule$(ThisOption)Bindable)}, +
  {InfOption,$(NoTitle),$(!REG_VT_SZ),$(ThisOption)}, +
  {Infname ,$(NoTitle),$(!REG_VT_SZ),$(!RasInfName)}}}
Shell $(!UtilityInf), AddValueList, $(SoftNetRuleKey), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
  Debug-Output "AddValueList bombed out"
  goto ShellCodeError
endif
set RegistryErrorIndex = $($R0)
CloseRegKey $(SoftNetRuleKey)
Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
  goto fatalregistry
endif
set NewValueList = {{Logging, $(NoTitle), $(!REG_VT_DWORD), 0}}
Shell $(!UtilityInf), AddValueList, $(SoftParamsKey), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
  Debug-Output "AddValueList bombed out"
  goto ShellCodeError
endif
set RegistryErrorIndex = $($R0)
Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"

```

```

        goto fatalregistry
    endif
    CloseRegKey $(SoftParamsKey)
    Shell "" AddServiceDependency "RasMan" "tapisrv"
endif
ifstr(i) $(DoRasAutodial) == TRUE
    set ThisOption = RASAUTODIAL
    set RasSpecificString = $(!Product$(ThisOption)Name)
    Shell "" InstallSoftwareAndService $(ThisOption)
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "Error shelling InstallSoftwareAndService for "$
(ThisOption)
        goto ShellCodeError
    endif
    ifstr(i) $($R0) != STATUS_SUCCESSFUL
        Debug-Output "Error from InstallSoftwareAndService for"$(ThisOption)
        goto end
    endif
    set DisableAutoDial = FALSE
    ifint $(NewNumDialout) == 0
        set DisableAutoDial = TRUE
    endif
    ifstr(i) $(DisableAutoDial) == TRUE
        OpenRegKey $(!REG_H_LOCAL) "" $(!RasAutodialKeyName) $(!MAXIMUM_ALLOWED)
KeyAutodial
        ifstr $(KeyAutodial) == $(KeyNull)
            Debug-Output "OEMNSVRA.INF: could not open RasAuto key"
        else
            SetRegValue $(KeyAutodial) {Start, $(NoTitle), $(!REG_VT_DWORD), 4}
            CloseRegKey $(KeyAutodial)
        endif
    endif
    Shell "" InstallRasAcidService
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "Error shelling InstallRasAcidService"
        goto ShellCodeError
    endif
    ifstr(i) $($R0) != STATUS_SUCCESSFUL
        Debug-Output "Error from InstallRasAcidService"
        goto end
    endif
    Shell "" AddServiceDependency "RasAuto" "RasMan"
endif
ifstr(i) $(DoNdiswan) == TRUE
    set ThisOption = NDISWAN
    set RasSpecificString = $(Product$(ThisOption)Name)
    Shell $(!UtilityInf), AddSoftwareComponent, $(!Manufacturer), +
        $(!Product$(ThisOption)Name), $(!Product$(ThisOption)Name), +
        $(!Product$(ThisOption)DisplayName), +
        $(!RasInfName), $(!Product$(ThisOption)ImagePath),+
        "kernelautostart", "NDISWAN", {}, "", +
        $(!RasMsgDll), $(!RasEventTypeSupported)
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "AddSoftware bombed out"
        goto ShellCodeError
    endif
    set RegistryErrorIndex = $($R0)
    Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
        CloseRegKey $($R1)

```

```

        CloseRegKey $($R2)
        CloseRegKey $($R3)
        CloseRegKey $($R4)
        CloseRegKey $($R5)
        goto fatalregistry
    endif
    Set SoftProductKey      = $($R1)
    Set SoftNetRuleKey     = $($R2)
    CloseRegKey $($R3)
    CloseRegKey $($R4)
    CloseRegKey $($R5)
    set NewValueList = +
        {{Infname ,$(NoTitle),$(!REG_VT_SZ),$(!RasInfName)},+
        {ServiceName,$(NoTitle),$(!REG_VT_SZ),+
        $(!Product$(ThisOption)Name)},+
        {SoftwareType,$(NoTitle),$(!REG_VT_SZ),+
        $(Product$(ThisOption)Type)},+
        {Title,$(NoTitle),$(!REG_VT_SZ),$(!Product$(ThisOption)Title)},+
        {Description,$(NoTitle),$(!REG_VT_SZ),+
        $(!Product$(ThisOption)Description)},+
        {PathName,$(NoTitle),$(!REG_VT_SZ),+
        $(!Product$(ThisOption)ImagePath)},+
        {MajorVersion,$(NoTitle),$(!REG_VT_DWORD),$(!ProductMajorVersion)},+
        {MinorVersion,$(NoTitle),$(!REG_VT_DWORD),$(!ProductMinorVersion)},+
        {BindControl,$(NoTitle),$(!REG_VT_DWORD),$(HideBindings)},+
        {InstallDate,$(NoTitle),$(!REG_VT_DWORD),*$(!CurrentDate),1}},+
        {Hidden,$(NoTitle),$(!REG_VT_DWORD),$(!HideComponent)}}
    Shell $(!UtilityInf), AddValueList, $(SoftProductKey), $(NewValueList)
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "AddValueList bombed out"
        goto ShellCodeError
    endif
    set RegistryErrorIndex = $($R0)
    CloseRegKey $(SoftProductKey)
    Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
        CloseRegKey $(SoftNetRuleKey)
        goto fatalregistry
    endif
    set NewValueList = +
        {{class, $(NoTitle), $(!REG_VT_MULTI_SZ), $(!NetRule$(ThisOption)Class)},+
        {type,$(NoTitle),$(!REG_VT_SZ),$(!NetRule$(ThisOption)Type)},+
        {use,$(NoTitle),$(!REG_VT_SZ),$(NetRule$(ThisOption)Use)}, +
        {bindform,$(NoTitle),$(!REG_VT_SZ),+
        $(!NetRule$(ThisOption)BindForm)}, +
        {bindable,$(NoTitle),$(!REG_VT_MULTI_SZ),+
        $(!NetRule$(ThisOption)Bindable)}, +
        {InfOption,$(NoTitle),$(!REG_VT_SZ),$(ThisOption)}, +
        {Infname ,$(NoTitle),$(!REG_VT_SZ),$(!RasInfName)}}
    Shell $(!UtilityInf), AddValueList, $(SoftNetRuleKey), $(NewValueList)
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "AddValueList bombed out"
        goto ShellCodeError
    endif
    set RegistryErrorIndex = $($R0)
    CloseRegKey $(SoftNetRuleKey)
    Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
        goto fatalregistry
    endif
    Shell "" InstallNdisWanBHAdapter

```

```

ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "Cannot add NdisWan Blood hound adapter"
    goto ShellCodeError
endif
ifstr(i) $($R0) != STATUS_SUCCESSFUL
    set RegistryErrorIndex = $($R0)
    Debug-Output "Error installing NdisWan Blood hound adapter"
    goto fatalregistry
endif
Shell "" AddNDISWANToServiceGroupOrder
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "Cannot add NDISWAN to ServiceGroupOrder"
    goto ShellCodeError
endif
DoNdisWanEnd = +
endif
ifstr(i) $(DoRasAsyMac) == TRUE
    set ThisOption = RASASYMAC
    set RasSpecificString = $(Product$(ThisOption)Name)
    ifstr(i) $(fSerialInstalled) == TRUE
        set AsySoftwareType = "kernelautostart"
    else-ifstr(i) $(fOtherInstalled) == TRUE
        set AsySoftwareType = "kernelautostart"
    else-ifstr(i) $(fUnimodemInstalled) == TRUE
        set AsySoftwareType = "kernelautostart"
    else
        set AsySoftwareType = "kerneldisable"
    endif
Shell $(!UtilityInf), AddSoftwareComponent, $(!Manufacturer), +
    $(Product$(ThisOption)Name), $(Product$(ThisOption)Name), +
    $(Product$(ThisOption)DisplayName), +
    $(!RasInfName), $(Product$(ThisOption)ImagePath), $(AsySoftwareType),
+
    "NDIS", {}, "", $(!RasMsgDll), $(!RasEventTypeSupported)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "AddSoftware bombed out"
    goto ShellCodeError
endif
set RegistryErrorIndex = $($R0)
Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
    CloseRegKey $($R1)
    CloseRegKey $($R2)
    CloseRegKey $($R3)
    CloseRegKey $($R4)
    CloseRegKey $($R5)
    goto fatalregistry
endif
Set SoftProductKey = $($R1)
Set SoftNetRuleKey = $($R2)
CloseRegKey $($R3)
CloseRegKey $($R4)
CloseRegKey $($R5)
set NewValueList = +
    {{Infname ,$(NoTitle),$(!REG_VT_SZ),$(!RasInfName)},+
    {ServiceName,$(NoTitle),$(!REG_VT_SZ),+
    $(Product$(ThisOption)Name)},+
    {SoftwareType,$(NoTitle),$(!REG_VT_SZ),+
    $(Product$(ThisOption)Type)},+
    {Title,$(NoTitle),$(!REG_VT_SZ),$(Product$(ThisOption)Title)},+

```

```

    {Description,$(NoTitle),$(!REG_VT_SZ),+
      $(Product$(ThisOption)Description)},+
    {PathName,$(NoTitle),$(!REG_VT_SZ),+
      $(Product$(ThisOption)ImagePath)},+
    {MajorVersion,$(NoTitle),$(!REG_VT_DWORD),$(!ProductMajorVersion)},+
    {MinorVersion,$(NoTitle),$(!REG_VT_DWORD),$(!ProductMinorVersion)},+
    {BindControl,$(NoTitle),$(!REG_VT_DWORD),$(HideBindings)},+
    {InstallDate,$(NoTitle),$(!REG_VT_DWORD),*$(!CurrentDate),1)},+
    {Hidden,$(NoTitle),$(!REG_VT_DWORD),$(!HideComponent)}}
Shell $(!UtilityInf), AddValueList, $(SoftProductKey), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "AddValueList bombed out"
    goto ShellCodeError
endif
set RegistryErrorIndex = $($R0)
CloseRegKey $(SoftProductKey)
Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
    CloseRegKey $(SoftNetRuleKey)
    goto fatalregistry
endif
set NewValueList = +
{{class, $(NoTitle), $(!REG_VT_MULTI_SZ), $(NetRule$(ThisOption)Class)},+
 {type,$(NoTitle),$(!REG_VT_SZ),$(NetRule$(ThisOption)Type)},+
 {use,$(NoTitle),$(!REG_VT_SZ),$(NetRule$(ThisOption)Use)}, +
 {bindform,$(NoTitle),$(!REG_VT_SZ),+
  $(NetRule$(ThisOption)BindForm)}, +
 {bindable,$(NoTitle),$(!REG_VT_MULTI_SZ),+
  $(!NetRule$(ThisOption)Bindable)}, +
 {InfOption,$(NoTitle),$(!REG_VT_SZ),$(ThisOption)}, +
 {Infname ,$(NoTitle),$(!REG_VT_SZ),$(!RasInfName)}}
Shell $(!UtilityInf), AddValueList, $(SoftNetRuleKey), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "AddValueList bombed out"
    goto ShellCodeError
endif
set RegistryErrorIndex = $($R0)
CloseRegKey $(SoftNetRuleKey)
Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
    goto fatalregistry
endif
Shell $(!UtilityInf), AddHardwareComponent, +
    $(Product$(ThisOption)Name),$(!RasInfName),+
    $(Product$(ThisOption)KeyName)
ifint $($R4) != -1
    Set !NETCARD_LIST = >$(!NETCARD_LIST), +
        {$(Product$(ThisOption)Name),+
        $(!NetworkCardKeyName)"\"$($R4)}
endif
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "Cannot add hardware component"
    goto ShellCodeError
endif
set RegistryErrorIndex = $($R0)
Ifstr(i) $(RegistryErrorIndex) != NO_ERROR
    Debug-Output "Registry error: add hardware component"
    CloseRegKey $($R1)
    CloseRegKey $($R2)
    CloseRegKey $($R3)
    goto fatalregistry

```



```

endif
set KeyNetcard = $($R1)
set KeyParameters = $($R3)
set KeyAdapterRules = $($R2)
set AdapterNumber = $($R4)
set NewValueList = +
  {{Manufacturer,$(NoTitle),$(!REG_VT_SZ),$(!Manufacturer)},+
  {Title,$(NoTitle),$(!REG_VT_SZ),+
  ["$($R4)"] "$(Product$(ThisOption)Title)},+
  {Description,$(NoTitle),$(!REG_VT_SZ),+
  $(Product$(ThisOption)Description)},+
  {ProductName,$(NoTitle),$(!REG_VT_SZ),+
  $(Product$(ThisOption)Name)},+
  {ServiceName,$(NoTitle),$(!REG_VT_SZ),$(R5)},+
  {InstallDate,$(NoTitle),$(!REG_VT_DWORD),*$(!CurrentDate),1}},+
  {Hidden,$(NoTitle),$(!REG_VT_DWORD),$(!HideComponent)}}
Shell $(!UtilityInf), AddValueList, $(KeyNetcard), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
  Debug-Output "ShellCode error"
  goto ShellCodeError
endif
CloseRegKey $(KeyNetcard)
set TempProdName = """"$(Product$(ThisOption)Name)$($AdapterNumber)""""
set TempBindForm = $(TempProdName)$($NetRuleHardware$(ThisOption)BindForm)
set NewValueList = +
  {{type,$(NoTitle),$(!REG_VT_SZ),+
  $(NetRuleHardware$(ThisOption)Type)},+
  {bindform,$(NoTitle),$(!REG_VT_SZ),$(TempBindForm)}, +
  {class,$(NoTitle),$(!REG_VT_MULTI_SZ),+
  $(NetRuleHardware$(ThisOption)Class)}, +
  {InfOption,$(NoTitle),$(!REG_VT_SZ),$(ThisOption)}, +
  {Infname ,$(NoTitle),$(!REG_VT_SZ),$(!RasInfName)}}
Shell $(!UtilityInf), AddValueList, $(KeyAdapterRules), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
  Debug-Output "ShellCode error."
  goto ShellCodeError
endif
set RegistryErrorIndex = $($R0)
Ifstr(i) $(RegistryErrorIndex) != NO_ERROR
  Debug-Output "Resgitry error: add value list."
  CloseRegKey $(KeyParameters)
  CloseRegKey $(KeyAdapterRules)
  goto fatalregistry
endif
CloseRegKey $(KeyAdapterRules)
CloseRegKey $(KeyParameters)
endif
Shell "" InstallNdisTapiService
ifint $($ShellCode) != $(!SHELL_CODE_OK)
  Debug-Output "Error shelling InstallNdisTapiService "
  goto ShellCodeError
endif
ifstr(i) $($R0) != STATUS_SUCCESSFUL
  set RegistryErrorIndex = $($R0)
  Debug-Output "Error installing NdisTapi Service"
  goto fatalregistry
endif
goto WriteParameters
WriteParameters = +

```

```

ifstr(i) $(DoAdminOnly) == TRUE
    goto WriteParametersOver
endif
StartWait
read-syms StatusUpdatingRegistry$(!STF_LANGUAGE)
shell $(subroutninf) PushBillBoard NETSTATUSDLG $(WritingRasParams)
Set BillboardVisible = 1
Debug-Output "Writing Registry Parameters."
ifstr(i) $(DoServer) != TRUE
    goto WriteRasMan
endif
Debug-Output "OEMNSVRA.INF: Product type "$(!STF_PRODUCT)
Debug-Output "OEMNSVRA.INF: Total dialin ports "$(!NewNumDialin)
set RasStartValue = 3
ifstr(i) $(!STF_PRODUCT) != "WINNT"
    ifint $(NewNumDialin) != 0
        set RasStartValue = 2
    endif
endif
set KeySvr = $(KeyNull)
OpenRegKey $(!REG_H_LOCAL) "" $(RasSvrKeyName) $(!MAXIMUM_ALLOWED) KeySvr
ifstr $(KeySvr) == $(KeyNull)
    Debug-Output "OEMNSVRA.INF: could not open RemoteAccess key"
else
    ifstr(i) $(!NTN_InstallMode) != install
        GetRegValue $(KeySvr) "Start" StartList
        ifint $(RegLastError) == 0
            set RasStartValue = *$(StartList), 4
        endif
    endif
    ifint $(NewNumDialin) == 0
        ifint $(RasStartValue) != 4
            set RasStartValue = 3
        endif
    endif
    Debug-Output "OEMNSVRA.INF: Setting RemoteAccess start type to "$
(RasStartValue)
    SetRegValue $(KeySvr) {Start,$(NoTitle),$(!REG_VT_DWORD),$(RasStartValue)}
    CloseRegKey $(KeySvr)
endif
OpenRegKey $(!REG_H_LOCAL) "" $(RasSvrParamKeyName) $(!MAXIMUM_ALLOWED)
KeySrvParams
ifstr $(KeySrvParams) == $(KeyNull)
    Debug-Output "OEMNSVRA.INF: could not open RasSvr Params key"
    set RegistryErrorIndex = UNABLE_OPEN_SERVICE_PARAMETERS
    goto fatalregistry
endif
set NewValueList = +
    {{NetBiosGatewayEnabled, $(NoTitle), $(!REG_VT_DWORD), $
(NetBiosGtwyEnabled)}}
Shell $(!UtilityInf), AddValueList, $(KeySrvParams), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "AddValueList bombed out"
    goto ShellCodeError
endif
set RegistryErrorIndex = $($R0)
Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
    goto fatalregistry
endif

```

```

CloseRegKey $(KeySrvParams)
WriteRasMan = +
  OpenRegKey $(!REG_H_LOCAL) "" $(RasManParamKeyName) $(!MAXIMUM_ALLOWED)
KeyRasManParams
  ifstr $(KeyRasManParams) == $(KeyNull)
    Debug-Output "OEMNSVRA.INF: could not open RasMan Params key"
    set RegistryErrorIndex = UNABLE_OPEN_SERVICE_PARAMETERS
    goto fatalregistry
  endif
  set MediaValue = {"rastapi"}
  ifstr(i) $(fSerialInstalled) == TRUE
    set MediaValue = >$(MediaValue), "rasser"
  endif
  set OtherConfigKey = $(!NTN_SoftwareBase)"\"$(!Manufacturer)"\"$(
(ProductRASName)"\OTHER DEVICES\CONFIGURED"
  set KeyOtherMedia = $(KeyNull)
  OpenRegKey $(!REG_H_LOCAL) "" $(OtherConfigKey) $(!MAXIMUM_ALLOWED) +
    KeyOtherMedia
  ifstr $(KeyOtherMedia) != $(KeyNull)
    EnumRegKey $(KeyOtherMedia) OtherList
    Debug-Output "oemnsvra.inf: Other Media list "$(OtherList)
    ForListDo $(OtherList)
      set MediaName = *($($),1)
      set KeyMedia = $(KeyNull)
      OpenRegKey $(KeyOtherMedia) "" $(MediaName) $(!MAXIMUM_ALLOWED) +
        KeyMedia
      ifstr $(KeyMedia) != $(KeyNull)
        GetRegValue $(KeyMedia), "MediaType" MediaType
        Ifint $(RegLastError) == $(!REG_ERROR_SUCCESS)
          set MediaTypeValue = *($($),4)
          set MediaValue = >$(MediaValue), $(MediaTypeValue)
        endif
        CloseRegKey $(KeyMedia)
      endif
    EndForListDo
    CloseRegKey $(KeyOtherMedia)
  else
    Debug-Output "oemnsvra.inf: Other Media not configured"
  endif
  Debug-Output "Adding Medias as "$(MediaValue)
  set NewValueList = {{Medias,$(NoTitle),$(!REG_VT_MULTI_SZ),$(MediaValue)}}
  Shell $(!UtilityInf), AddValueList, $(KeyRasManParams), $(NewValueList)
  ifint $(ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "AddValueList bombed out"
    goto ShellCodeError
  endif
  set RegistryErrorIndex = $($R0)
  Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
    goto fatalregistry
  endif
  CloseRegKey $(KeyRasManParams)
WriteNdisWan = +
  set PrevNumPorts = 0
  set PrevNumDialin = 0
  set PrevNumDialout = 0
  OpenRegKey $(!REG_H_LOCAL) "" $(RasAsyMacParamKeyName) $(!MAXIMUM_ALLOWED)
KeyMacParams
  ifstr $(KeyMacParams) == $(KeyNull)
    ifstr(i) $(!NTN_InstallMode) == configure

```

```

        Debug-Output "OEMNSVRA.INF: could not open AsyncMac Params key"
        set RegistryErrorIndex = UNABLE_OPEN_SERVICE_PARAMETERS
        goto fatalregistry
    endif
    goto WriteNdisWan1
endif
GetRegValue $(KeyMacParams), "Ports" PortsInfo
GetRegValue $(KeyMacParams), "DialinNBF" DialinNBFInfo
GetRegValue $(KeyMacParams), "DialoutNBF" DialoutNBFInfo
GetRegValue $(KeyMacParams), "DialinIP" DialinIPInfo
GetRegValue $(KeyMacParams), "DialoutIP" DialoutIPInfo
GetRegValue $(KeyMacParams), "DialinoutIPX" DialinoutIPXInfo
set PrevNumPorts = *($(PortsInfo), 4)
set PrevNumDialinNBF = *($(DialinNBFInfo), 4)
set PrevNumDialoutNBF = *($(DialoutNBFInfo), 4)
set PrevNumDialinIP = *($(DialinIPInfo), 4)
set PrevNumDialoutIP = *($(DialoutIPInfo), 4)
set PrevNumDialinoutIPX = *($(DialinoutIPXInfo), 4)
Debug-Output "Ports currently configured "$(PrevNumPorts)
Debug-Output "Ports currently dialin NBF "$(PrevNumDialinNBF)
Debug-Output "Ports currently dialout NBF "$(PrevNumDialoutNBF)
Debug-Output "Ports currently dialin IP "$(PrevNumDialinIP)
Debug-Output "Ports currently diaout IP "$(PrevNumDialoutIP)
Debug-Output "Ports currently diainout IPX "$(PrevNumDialinoutIPX)
CloseRegKey $(KeyMacParams)
WriteNdisWan1 =+
    set ThisOption = NDISWAN
    set RasSpecificString = $(!Product$(ThisOption)Name)
    OpenRegKey $(!REG_H_LOCAL) "" $(NdisWanParamKeyName) $(!MAXIMUM_ALLOWED)
KeyHubParams
ifstr $(KeyHubParams) == $(KeyNull)
    Debug-Output "OEMNSVRA.INF: could not open NdisWan Params key"
    set RegistryErrorIndex = UNABLE_OPEN_SERVICE_PARAMETERS
    goto fatalregistry
endif
set NewValueList = +
    {{Endpoints, $(NoTitle), $(!REG_VT_MULTI_SZ), $(NewNumPortsList)}}
Shell $(!UtilityInf), AddValueList, $(KeyHubParams), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "AddValueList bombed out"
    goto ShellCodeError
endif
set RegistryErrorIndex = $($R0)
CloseRegKey $(KeyHubParams)
Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
    goto fatalregistry
endif
ifint $(PrevNumDialinNBF) == $(NewNumDialinNBF)
    ifint $(PrevNumDialoutNBF) == $(NewNumDialoutNBF)
        ifint $(PrevNumDialinIP) == $(NewNumDialinIP)
            ifint $(PrevNumDialoutIP) == $(NewNumDialoutIP)
                ifint $(PrevNumDialinoutIPX) == $(NewNumDialinoutIPX)
                    set CommonStatus = STATUS_USERCANCEL
                    goto WriteRasAsyMac
                endif
            endif
        endif
    endif
endif
endif
endif
endif
endif
endif

```

```

set NumAddDialinNBF      = 0
set NumAddDialoutNBF     = 0
set NumRemoveDialinNBF  = 0
set NumRemoveDialoutNBF = 0
set NumAddDialinIP      = 0
set NumAddDialoutIP     = 0
set NumRemoveDialinIP   = 0
set NumRemoveDialoutIP  = 0
ifint $(PrevNumDialinNBF) > $(NewNumDialinNBF)
    set-sub NumRemoveDialinNBF = $(PrevNumDialinNBF), $(NewNumDialinNBF)
else
    set-sub NumAddDialinNBF = $(NewNumDialinNBF), $(PrevNumDialinNBF)
endif
ifint $(PrevNumDialoutNBF) > $(NewNumDialoutNBF)
    set-sub NumRemoveDialoutNBF = $(PrevNumDialoutNBF), $(NewNumDialoutNBF)
else
    set-sub NumAddDialoutNBF = $(NewNumDialoutNBF), $(PrevNumDialoutNBF)
endif
ifint $(PrevNumDialinIP) > $(NewNumDialinIP)
    set-sub NumRemoveDialinIP = $(PrevNumDialinIP), $(NewNumDialinIP)
else
    set-sub NumAddDialinIP = $(NewNumDialinIP), $(PrevNumDialinIP)
endif
ifint $(PrevNumDialoutIP) > $(NewNumDialoutIP)
    set-sub NumRemoveDialoutIP = $(PrevNumDialoutIP), $(NewNumDialoutIP)
else
    set-sub NumAddDialoutIP = $(NewNumDialoutIP), $(PrevNumDialoutIP)
endif
ifint $(PrevNumDialinoutIPX) > $(NewNumDialinoutIPX)
    set-sub NumRemoveDialinoutIPX = $(PrevNumDialinoutIPX), $(
(NewNumDialinoutIPX)
else
    set-sub NumAddDialinoutIPX = $(NewNumDialinoutIPX), $(PrevNumDialinoutIPX)
endif
set NumAddTotal = 0
set NumRemoveTotal = 0
set-add NumAddTotal = $(NumAddDialinNBF), $(NumAddDialoutNBF)
set-add NumAddTotal = $(NumAddTotal), $(NumAddDialinIP)
set-add NumAddTotal = $(NumAddTotal), $(NumAddDialoutIP)
set-add NumAddTotal = $(NumAddTotal), $(NumAddDialinoutIPX)
set-add NumRemoveTotal = $(NumRemoveDialinNBF), $(NumRemoveDialoutNBF)
set-add NumRemoveTotal = $(NumRemoveTotal), $(NumRemoveDialinIP)
set-add NumRemoveTotal = $(NumRemoveTotal), $(NumRemoveDialoutIP)
set-add NumRemoveTotal = $(NumRemoveTotal), $(NumRemoveDialinoutIPX)
Debug-Output "NumAddDialinNBF = "$(NumAddDialinNBF)
Debug-Output "NumAddDialoutNBF = "$(NumAddDialoutNBF)
Debug-Output "NumAddDialinIP = "$(NumAddDialinIP)
Debug-Output "NumAddDialoutIP = "$(NumAddDialoutIP)
Debug-Output "NumAddDialinoutIPX = "$(NumAddDialinoutIPX)
Debug-Output "NumAddTotal = "$(NumAddTotal)
Debug-Output "NumRemoveDialinNBF = "$(NumRemoveDialinNBF)
Debug-Output "NumRemoveDialinIP = "$(NumRemoveDialinIP)
Debug-Output "NumRemoveDialinoutIPX = "$(NumRemoveDialinoutIPX)
Debug-Output "NumRemoveTotal = "$(NumRemoveTotal)
Shell "utility.inf" BaseServiceKey
set RegistryErrorIndex = $(%R0)
Ifstr(i) $(RegistryErrorIndex) == NO_ERROR
    Debug-Output "OEMNSVRA.INF: Opened the services base key"
    set ServicesBaseKey = $(%R1)

```

```

else
    set ServicesBaseKey = $(KeyNull)
endif
OpenRegKey $(!REG_H_LOCAL) "" $(!NetworkCardKeyName) $(MAXIMUM_ALLOWED)
KeyNetcards
Ifstr(i) $(RegistryErrorIndex) == NO_ERROR
    Debug-Output "OEMNSVRA.INF: Opened the networkcardkey "
endif
set RasAdapterNumber = 1
AddNdisWanNetCard = +
    IfInt $(NumAddTotal) == 0
        goto RemoveNdisWanNetCard
    else
        Debug-Output "In the Add if loop. NumAddTotal = "$(NumAddTotal)
        shell $(subroutninf) PushBillBoard NETSTATUSDLG +
            $(WritingRasParamsAdd) "$(NumAddTotal)

        set-sub NumAddTotal = $(NumAddTotal),1
        Shell $(!UtilityInf), AddHardwareComponent, +
            $(!Product$(ThisOption)Name),$(!RasInfName),+
            $(!Product$(ThisOption)KeyName), +
            $(ServicesBaseKey), $(KeyNetcards), $(RasAdapterNumber)
        ifint $($R4) != -1
            Set !NETCARD_LIST = >$(!NETCARD_LIST), +
                {$(!Product$(ThisOption)Name),+
                $(!NetworkCardKeyName)"\"$($R4)}}
            set RasAdapterNumber = $($R4)
        endif
        ifint $($ShellCode) != $(!SHELL_CODE_OK)
            Debug-Output "Cannot add hardware component"
            goto ShellCodeError
        endif
        set RegistryErrorIndex = $($R0)
        Ifstr(i) $(RegistryErrorIndex) != NO_ERROR
            Debug-Output "Registry error: add hardware component"
            CloseRegKey $($R1)
            CloseRegKey $($R2)
            CloseRegKey $($R3)
            goto fatalregistry
        endif
        set KeyNetcard = $($R1)
        set KeyParameters = $($R3)
        set KeyAdapterRules = $($R2)
        set AdapterNumber = $($R4)
        set NetcardInfoList = +
            {{Manufacturer,$(NoTitle),$(!REG_VT_SZ),$(!Manufacturer)},+
            {Title,$(NoTitle),$(!REG_VT_SZ),+
            "["$($R4)"] "$(!Product$(ThisOption)Title)},+
            {Description,$(NoTitle),$(!REG_VT_SZ),+
            $(!Product$(ThisOption)Description)},+
            {ServiceName,$(NoTitle),$(!REG_VT_SZ),$(R5)},+
            {InstallDate,$(NoTitle),$(!REG_VT_DWORD),*$(!CurrentDate),1}},+
            {Hidden,$(NoTitle),$(!REG_VT_DWORD),$(!HideComponent)}}
        Shell $(!UtilityInf), GetBusTypeNum
        set BusTypeNum = $($R1)
        ifint $(NumAddDialinNBF) > 0
            set-sub NumAddDialinNBF = $(NumAddDialinNBF), 1
            set NetcardInfoList = >$(NetcardInfoList), +
                {ProductName,$(NoTitle),$(!REG_VT_SZ),+
                $(!Product$(ThisOption)DIALINName)}}

```

```

set ServiceParamList = +
    {{EnumExportPref,$(NoTitle),$(!REG_VT_DWORD),0},+
    {BusType,$(NoTitle),$(!REG_VT_DWORD),$(BusTypeNum)}}
set AdapterType = $(!NetRuleHardwareDIALINType)
set AdapterClass = $(!NetRuleHardwareDIALINClass)
set AdapterBlock = $(!NetRuleHardwareDIALINBlock)
else-ifint $(NumAddDialoutNBF) > 0
set-sub NumAddDialoutNBF = $(NumAddDialoutNBF), 1
set NetcardInfoList = >$(NetcardInfoList), +
    {ProductName,$(NoTitle),$(!REG_VT_SZ),+
    $(!Product$(ThisOption)DIALOUTName)}}
set ServiceParamList = +
    {{EnumExportPref,$(NoTitle),$(!REG_VT_DWORD),1},+
    {BusType,$(NoTitle),$(!REG_VT_DWORD),$(BusTypeNum)}}
set AdapterType = $(!NetRuleHardwareDIALOUTType)
set AdapterClass = $(!NetRuleHardwareDIALOUTClass)
set AdapterBlock = $(!NetRuleHardwareDIALOUTBlock)
else-ifint $(NumAddDialinIP) > 0
set-sub NumAddDialinIP = $(NumAddDialinIP), 1
set NetcardInfoList = >$(NetcardInfoList), +
    {ProductName,$(NoTitle),$(!REG_VT_SZ),+
    $(!Product$(ThisOption)DIALINIPName)}}
set ServiceParamList = +
    {{EnumExportPref,$(NoTitle),$(!REG_VT_DWORD),0},+
    {AutoIPAddress,$(NoTitle),$(!REG_VT_DWORD),1},+
    {ServerAdapter,$(NoTitle),$(!REG_VT_DWORD),1},+
    {BusType,$(NoTitle),$(!REG_VT_DWORD),$(BusTypeNum)}}
set AdapterType = $(!NetRuleHardwareDIALINIPIType)
set AdapterClass = $(!NetRuleHardwareDIALINIPIClass)
set AdapterBlock = $(!NetRuleHardwareDIALINIPIBlock)
else-ifint $(NumAddDialoutIP) > 0
set-sub NumAddDialoutIP = $(NumAddDialoutIP), 1
set NetcardInfoList = >$(NetcardInfoList), +
    {ProductName,$(NoTitle),$(!REG_VT_SZ),+
    $(!Product$(ThisOption)DIALOUTIPName)}}
set ServiceParamList = +
    {{EnumExportPref,$(NoTitle),$(!REG_VT_DWORD),1},+
    {AutoIPAddress,$(NoTitle),$(!REG_VT_DWORD),1},+
    {ServerAdapter,$(NoTitle),$(!REG_VT_DWORD),0},+
    {BusType,$(NoTitle),$(!REG_VT_DWORD),$(BusTypeNum)}}
set AdapterType = $(!NetRuleHardwareDIALOUTIPIType)
set AdapterClass = $(!NetRuleHardwareDIALOUTIPIClass)
set AdapterBlock = $(!NetRuleHardwareDIALOUTIPIBlock)
else-ifint $(NumAddDialinoutIPX) > 0
set-sub NumAddDialinoutIPX = $(NumAddDialinoutIPX), 1
set NetcardInfoList = >$(NetcardInfoList), +
    {ProductName,$(NoTitle),$(!REG_VT_SZ),+
    $(!Product$(ThisOption)DIALINOUTIPXName)}}
set ServiceParamList = +
    {{EnumExportPref,$(NoTitle),$(!REG_VT_DWORD),0},+
    {BusType,$(NoTitle),$(!REG_VT_DWORD),$(BusTypeNum)}}
set AdapterType = $(!NetRuleHardwareDIALINOUTIPXType)
set AdapterClass = $(!NetRuleHardwareDIALINOUTIPXClass)
set AdapterBlock = $(!NetRuleHardwareDIALINOUTIPXBlock)
endif
Shell $(!UtilityInf), AddValueList, $(KeyNetcard), $(NetcardInfoList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "ShellCode error"
    goto ShellCodeError

```

```

endif
CloseRegKey $(KeyNetcard)
set TempProdName = """"$(!Product$(ThisOption)Name$(AdapterNumber)""""
set TempBindForm = $(TempProdName)$(!NetRuleHardware$(ThisOption)BindForm)
set AdapterRulesList = +
  {{type,$(NoTitle),$(!REG_VT_SZ),+
    $(AdapterType)},+
  {bindform,$(NoTitle),$(!REG_VT_SZ),$(TempBindForm)},+
  {class,$(NoTitle),$(!REG_VT_MULTI_SZ),+
    $(AdapterClass)},+
  {block,$(NoTitle),$(!REG_VT_MULTI_SZ),+
    $(AdapterBlock)},+
  {InfOption,$(NoTitle),$(!REG_VT_SZ),$(ThisOption)},+
  {Infname ,$(NoTitle),$(!REG_VT_SZ),$(!RasInfName)}}
Shell $(!UtilityInf), AddValueList, $(KeyAdapterRules), $
(AdapterRulesList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
  Debug-Output "ShellCode error."
  goto ShellCodeError
endif
set RegistryErrorIndex = $($R0)
Ifstr(i) $(RegistryErrorIndex) != NO_ERROR
  Debug-Output "Resgitry error: add value list."
  CloseRegKey $(KeyParameters)
  CloseRegKey $(KeyAdapterRules)
  goto fatalregistry
endif
CloseRegKey $(KeyAdapterRules)
Shell $(!UtilityInf), AddValueList, $(KeyParameters), $(ServiceParamList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
  Debug-Output "ShellCode error."
  goto ShellCodeError
endif
CloseRegKey $(KeyParameters)
goto AddNdisWanNetCard
endif
RemoveNdisWanNetCard = +
ifstr(i) $(ServicesBaseKey) != $(KeyNull)
  CloseRegKey $(ServicesBaseKey)
endif
ifstr(i) $(KeyNetcards) != $(KeyNull)
  CloseRegKey $(KeyNetcards)
endif
Ifint $(NumRemoveTotal) == 0
  goto WriteRasAsyMac
endif
Debug-Output "Removing NdisWan netcard entry..."
OpenRegKey $(!REG_H_LOCAL) "" $(!NetworkCardKeyName) $(!MAXIMUM_ALLOWED)
KeyNetcards
ifstr $(KeyNetcards) == $(KeyNull)
  Debug-Output "OEMNSVRA.INF: could not open Netcards key"
  set RegistryErrorIndex = UNABLE_OPEN_NETWORKCARD_SECTION
  goto fatalregistry
endif
EnumRegKey $(KeyNetcards) NetcardsList
set RemoveDialinList = {}
set RemoveDialinIpList = {}
set RemoveDialoutList = {}
set RemoveDialoutIpList = {}

```



```

set RemoveDialinoutIpxList = {}
ForListDo $(NetcardsList)
  set KeyName = *($($),1)
  OpenRegKey $(KeyNetcards) "" $(KeyName) $(!MAXIMUM_ALLOWED) Card
  ifstr $(Card) == $(KeyNull)
    Debug-Output "OEMNSVRA.INF: could not open netcard key"
    set RegistryErrorIndex = UNABLE_OPEN_NETWORKCARD_SECTION
    goto fatalregistry
  endif
  GetRegValue $(Card), "ProductName" ProductNameInfo
  set CardProductName = *$(ProductNameInfo), 4
  ifstr(i) $(CardProductName) == $(!ProductNDISWANDIALINName)
    set RemoveDialinList = >$(RemoveDialinList), +
      {$(!ProductNDISWANName),+
        $(!NetworkCardKeyName)"\"$(KeyName)}
  else-ifstr(i) $(CardProductName) == $(!ProductNDISWANDIALINIPName)
    set RemoveDialinIpList = >$(RemoveDialinIpList), +
      {$(!ProductNDISWANName),+
        $(!NetworkCardKeyName)"\"$(KeyName)}
  else-ifstr(i) $(CardProductName) == $(!ProductNDISWANDIALOUTName)
    set RemoveDialoutList = >$(RemoveDialoutList), +
      {$(!ProductNDISWANName),+
        $(!NetworkCardKeyName)"\"$(KeyName)}
  else-ifstr(i) $(CardProductName) == $(!ProductNDISWANDIALOUTIPName)
    set RemoveDialoutIpList = >$(RemoveDialoutIpList), +
      {$(!ProductNDISWANName),+
        $(!NetworkCardKeyName)"\"$(KeyName)}
  else-ifstr(i) $(CardProductName) == $(!ProductNDISWANDIALINOUTIPXName)
    set RemoveDialinoutIpxList = >$(RemoveDialinoutIpxList), +
      {$(!ProductNDISWANName),+
        $(!NetworkCardKeyName)"\"$(KeyName)}
  endif
  CloseRegKey $(Card)
EndForListDo
CloseRegKey $(KeyNetcards)
QueryListSize IpNetCards $(RemoveDialinIpList)
ifint $(IpNetCards) != 0
  ForListDo $(RemoveDialinIpList)
    ifint $(NumRemoveDialinIP) == 0
      goto RemoveDialinIPX
    endif
    set-sub NumRemoveDialinIP = $(NumRemoveDialinIP), 1
    shell $(subroutninf) PushBillBoard NETSTATUSDLG +
      $(WritingRasParamsRemove) "$(NumRemoveTotal)
    set-sub NumRemoveTotal = $(NumRemoveTotal), 1
    debug-output "Removing hardware component: "$($
    Shell $(!UtilityInf), RemoveHardwareComponent, +
      $(!Manufacturer), *($($),1), *($($),2)
  EndForListDo
endif
RemoveDialinIPX =+
QueryListSize IpxNetCards $(RemoveDialinoutIpxList)
ifint $(IpxNetCards) != 0
  ForListDo $(RemoveDialinoutIpxList)
    ifint $(NumRemoveDialinoutIPX) == 0
      goto RemoveDialinNBF
    endif
    set-sub NumRemoveDialinoutIPX = $(NumRemoveDialinoutIPX), 1
    debug-output "Removing hardware component: "$($

```

```

        shell $(subroutninf) PushBillBoard NETSTATUSDLG +
            $(WritingRasParamsRemove)" "$(NumRemoveTotal)
        set-sub NumRemoveTotal = $(NumRemoveTotal), 1
        Shell $(!UtilityInf), RemoveHardwareComponent, +
            $(!Manufacturer), *($($),1), *($($),2)
    EndForListDo
endif
RemoveDialinNBF =+
    ForListDo $(RemoveDialinList)
        ifint $(NumRemoveDialinNBF) == 0
            goto RemoveDialout
        endif
        set-sub NumRemoveDialinNBF = $(NumRemoveDialinNBF), 1
        shell $(subroutninf) PushBillBoard NETSTATUSDLG +
            $(WritingRasParamsRemove)" "$(NumRemoveTotal)
        set-sub NumRemoveTotal = $(NumRemoveTotal), 1
        debug-output "Removing hardware component: "$($)
        Shell $(!UtilityInf), RemoveHardwareComponent, $(!Manufacturer),+
            *($($),1), *($($),2)
    EndForListDo
RemoveDialout = +
    QueryListSize IpNetCards $(RemoveDialoutIpList)
    ifint $(IpNetCards) != 0
        ForListDo $(RemoveDialoutIpList)
            ifint $(NumRemoveDialoutIP) == 0
                goto RemoveDialoutNBF
            endif
            set-sub NumRemoveDialoutIP = $(NumRemoveDialoutIP), 1
            shell $(subroutninf) PushBillBoard NETSTATUSDLG +
                $(WritingRasParamsRemove)" "$(NumRemoveTotal)
            set-sub NumRemoveTotal = $(NumRemoveTotal), 1
            debug-output "Removing hardware component: "$($)
            Shell $(!UtilityInf), RemoveHardwareComponent, +
                $(!Manufacturer), *($($),1), *($($),2)
        EndForListDo
    endif
RemoveDialoutNBF =+
    ForListDo $(RemoveDialoutList)
        ifint $(NumRemoveDialoutNBF) == 0
            goto WriteRasAsyMac
        endif
        set-sub NumRemoveDialoutNBF = $(NumRemoveDialoutNBF), 1
        shell $(subroutninf) PushBillBoard NETSTATUSDLG +
            $(WritingRasParamsRemove)" "$(NumRemoveTotal)
        set-sub NumRemoveTotal = $(NumRemoveTotal), 1
        debug-output "Removing hardware component: "$($)
        Shell $(!UtilityInf), RemoveHardwareComponent, $(!Manufacturer),+
            *($($),1), *($($),2)
    EndForListDo
WriteRasAsyMac = +
    ifstr(i) $(fSerialInstalled) == TRUE
        set AsyStartValue = 2
    else-ifstr(i) $(fOtherInstalled) == TRUE
        set AsyStartValue = 2
    else-ifstr(i) $(fUnimodemInstalled) == TRUE
        set AsyStartValue = 2
    else
        set AsyStartValue = 4
    endif

```

```

OpenRegKey $(!REG_H_LOCAL) "" $(RasAsyMacKeyName) $(!MAXIMUM_ALLOWED) KeyMac
ifstr $(KeyMac) == $(KeyNull)
    Debug-Output "OEMNSVRA.INF: could not open AsyncMac key"
else
    SetRegValue $(KeyMac) {Start,$(NoTitle),$(!REG_VT_DWORD),$(AsyStartValue)}
    CloseRegKey $(KeyMac)
endif
ifint $(PrevNumPorts) == $(NewNumPorts)
    ifint $(PrevNumDialinNBF) == $(NewNumDialinNBF)
        ifint $(PrevNumDialoutNBF) == $(NewNumDialoutNBF)
            ifint $(PrevNumDialinIP) == $(NewNumDialinIP)
                ifint $(PrevNumDialoutIP) == $(NewNumDialoutIP)
                    ifint $(PrevNumDialinoutIPX) == $(NewNumDialinoutIPX)
                        EndWait
                        Ifint $(BillboardVisible) != 0
                            Shell "subroutn.inf" PopBillboard
                            Set BillboardVisible = 0
                        Endif
                        goto WriteProtocolInfo
                    endif
                endif
            endif
        endif
    endif
endif
OpenRegKey $(!REG_H_LOCAL) "" $(RasAsyMacParamKeyName) $(!MAXIMUM_ALLOWED)
KeyMacParams
ifstr $(KeyMacParams) == $(KeyNull)
    Debug-Output "OEMNSVRA.INF: could not open AsyncMac Params key"
    set RegistryErrorIndex = UNABLE_OPEN_SERVICE_PARAMETERS
    goto fatalregistry
endif
set NewValueList = +
    {{Ports, $(NoTitle), $(!REG_VT_DWORD), $(NewNumPorts)},+
    {DialinNBF, $(NoTitle), $(!REG_VT_DWORD), $(NewNumDialinNBF)},+
    {DialoutNBF, $(NoTitle), $(!REG_VT_DWORD), $(NewNumDialoutNBF)},+
    {DialinIP, $(NoTitle), $(!REG_VT_DWORD), $(NewNumDialinIP)},+
    {DialoutIP, $(NoTitle), $(!REG_VT_DWORD), $(NewNumDialoutIP)},+
    {DialinoutIPX, $(NoTitle), $(!REG_VT_DWORD), $(NewNumDialinoutIPX)}}
Shell $(!UtilityInf), AddValueList, $(KeyMacParams), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "AddValueList bombed out"
    goto ShellCodeError
endif
set RegistryErrorIndex = $($R0)
CloseRegKey $(KeyMacParams)
Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
    goto fatalregistry
endif
OpenRegKey $(!REG_H_LOCAL) "" $(!NetworkCardKeyName) $(!MAXIMUM_ALLOWED)
KeyNetcards
ifstr $(KeyNetcards) == $(KeyNull)
    Debug-Output "OEMNSVRA.INF: could not open Netcards key"
    set RegistryErrorIndex = UNABLE_OPEN_NETWORKCARD_SECTION
    goto fatalregistry
endif
EnumRegKey $(KeyNetcards) NetcardsList
ForListDo $(NetcardsList)
    set KeyName = *($($),1)

```

```

OpenRegKey $(KeyNetcards) "" $(KeyName) $(!MAXIMUM_ALLOWED) Card
ifstr $(Card) == $(KeyNull)
    Debug-Output "OEMNSVRA.INFO: could not open netcard key"
    set RegistryErrorIndex = UNABLE_OPEN_NETWORKCARD_SECTION
    goto fatalregistry
endif
GetRegValue $(Card), "ProductName" ProductNameInfo
set CardProductName = *$(ProductNameInfo), 4
ifstr(i) $(CardProductName) == $(ProductRASASYMACName)
    goto RasMacCardFound
endif
CloseRegKey $(Card)
EndForListDo
CloseRegKey $(KeyNetcards)
RasMacCardFound = +
Debug-Output "Shelling to find AsyncMac Service."
Shell $(!UtilityInf) FindService, $(Card)
CloseRegKey $(Card)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "OEMNSVRA.INFO: shell Findservice failed"
    goto ShellCodeError
endif
ifstr(i) $($R0) != NO_ERROR
    Debug-Output "OEMNSVRA.INFO: findservice failed."
    goto fatalregistry
endif
set KeyParameters = $($R2)
CloseRegKey $($R1)
Shell $(!UtilityInf), GetBusTypeNum
set BusTypeNum = $($R1)
set NewValueList = +
    {{Ports, $(NoTitle), $(!REG_VT_DWORD), $(NewNumPorts)}, +
    {BusType, $(NoTitle), $(!REG_VT_DWORD), $(BusTypeNum)}}
Shell $(!UtilityInf), AddValueList, $(KeyParameters), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "AddValueList bombed out"
    goto ShellCodeError
endif
set RegistryErrorIndex = $($R0)
CloseRegKey $(KeyParameters)
Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
    goto fatalregistry
endif
WriteProtocolInfo =+
Shell "" SaveSelectedProtocols $(fNetbeuiSelected) $(fTcpIpSelected) +
    $(fIpxSelected) $(fNetbeuiAllowed) +
    $(fTcpIpAllowed) $(fIpxAllowed)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "Error shelling SaveSelectedProtocols"
    goto ShellCodeError
endif
ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "Error Saving selected protocols"
    goto end
endif
Shell "" WritePPPPParameters
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "Error shelling WritePPPPParameters"
    goto ShellCodeError

```

```

endif
ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "Error from WritePPPPParameters"
    goto end
endif
ifstr(i) $(fNetbeuiChosen) == TRUE
    ifstr(i) $(fNetbeuiInstalled) == FALSE
        Shell "" InstallProtocol "NETBEUI"
        ifint $($ShellCode) != $(!SHELL_CODE_OK)
            Debug-Output "Error shelling InstallProtocol NETBEUI"
            goto ShellCodeError
        endif
        ifstr(i) $($R0) != STATUS_SUCCESSFUL
            Debug-Output "Error installing NETBEUI"
            goto end
        endif
    endif
endif
ifstr(i) $(fTcpIpChosen) == TRUE
    ifstr(i) $(fTcpIpInstalled) == FALSE
        Shell "" InstallProtocol "TCPIP"
        ifint $($ShellCode) != $(!SHELL_CODE_OK)
            Debug-Output "Error shelling InstallProtocol TCPIP"
            goto ShellCodeError
        endif
        ifstr(i) $($R0) != STATUS_SUCCESSFUL
            Debug-Output "Error installing TCPIP"
            goto end
        endif
    endif
endif
Shell "" InstallRasArpService
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "Error shelling InstallRasArpService"
    goto ShellCodeError
endif
ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "Error from InstallRasArpService"
    goto end
endif
set CommonStatus = STATUS_SUCCESSFUL
Shell "" UpdateIPRouterInfo $(EnableIpRouter)
Shell "" SaveTcpipInfo $(fTcpIpAllowed)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "Error shelling SaveTcpipInfo"
    goto ShellCodeError
endif
ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "Error saving Tcpip info"
    goto end
endif
else
    Shell "" RemoveRasArpService
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "Error shelling RemoveRasArpService"
        goto ShellCodeError
    endif
    ifstr(i) $($R0) != STATUS_SUCCESSFUL
        Debug-Output "Error from RemoveRasArpService"
        goto end
    endif
endif

```

```

endif
Shell "" SaveTcpipInfo $(fTcpIpAllowed)
set CommonStatus = STATUS_SUCCESSFUL
endif
ifstr(i) $(fIpxChosen) == TRUE
  ifstr(i) $(fIpxInstalled) == FALSE
    Shell "" InstallProtocol "IPX"
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
      Debug-Output "Error shelling InstallProtocol IPX"
      goto ShellCodeError
    endif
    ifstr(i) $($R0) != STATUS_SUCCESSFUL
      Debug-Output "Error installing IPX"
      goto end
    endif
  endif
endif
OpenRegKey $(!REG_H_LOCAL) "" +
  $(!NTN_ServiceBase)"\NWLNKIPX\Parameters" +
  $(!MAXIMUM_ALLOWED) KeyIpxParameters
ifstr $(KeyIpxParameters) != $(KeyNull)
  GetRegValue $(KeyIpxParameters), "SingleNetworkActive" +
    SingleNetworkActive
  ifint $(RegLastError) != $(!REG_ERROR_SUCCESS)
    SetRegValue $(KeyIpxParameters) +
      {SingleNetworkActive, 0, $(!REG_VT_DWORD), 1}
  endif
  GetRegValue $(KeyIpxParameters), "DisableDialoutSap" +
    DisableDialoutSap
  ifint $(RegLastError) != $(!REG_ERROR_SUCCESS)
    SetRegValue $(KeyIpxParameters) +
      {DisableDialoutSap, 0, $(!REG_VT_DWORD), 1}
  endif
  GetRegValue $(KeyIpxParameters), "DisableDialinNetbios" +
    DisableDialinNetbios
  ifint $(RegLastError) != $(!REG_ERROR_SUCCESS)
    SetRegValue $(KeyIpxParameters) +
      {DisableDialinNetbios, 0, $(!REG_VT_DWORD), 1}
  endif
  CloseRegKey $(KeyIpxParameters)
endif
else
  Debug-Output "OEMNSVRA.INF: error opening NWLNKIPX\Parameters key"
endif
Shell "" SaveIpxInfo $(EnableIpxRouter) $(fIpxAllowed)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
  Debug-Output "Error shelling SaveIpxInfo"
  goto ShellCodeError
endif
ifstr(i) $($R0) != STATUS_SUCCESSFUL
  Debug-Output "Error saving Ipx info"
  goto end
endif
ifint $(EnableIpxRouter) == 1
  Shell "" InstallNwlnkRipService
  ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "Error shelling InstallNwlnkRipService"
    goto ShellCodeError
  endif
  ifstr(i) $($R0) != STATUS_SUCCESSFUL

```

```

        Debug-Output "Error from InstallNwlnkRipService"
        goto end
    endif
    set CommonStatus = STATUS_SUCCESSFUL
    Shell "" InstallIsnSapService
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "Error shelling InstallIsnSapService"
        goto ShellCodeError
    endif
    ifstr(i) $($R0) != STATUS_SUCCESSFUL
        Debug-Output "Error from InstallIsnSapService"
        goto end
    endif
    set CommonStatus = STATUS_SUCCESSFUL
else
    Shell "" RemoveNwlnkRipService
    Shell "" RemoveIsnSapService
endif
Shell "" UpdateIPXRouterInfo $(EnableWanRouter)
Ifstr(i) $(!NTN_InstallPhase) != primary
    shell $(subroutninf) PopBillBoard
    Set BillboardVisible = 0
Endif
else
    Shell "" SaveIpxInfo $(EnableIpxRouter) $(fIpxAllowed)
endif
WriteParametersOver = +
EndWait
goto successful
RemoveRas = +
StartWait
set REMOVE_SOFTWARE = {}
shell "" QueryComponentsInstalled
Ifstr(i) $($R0) == STATUS_SUCCESSFUL
    Set InstalledComps = $($R1)
    Set InstalledFlags = $($R2)
    Set DoServer = *($InstalledFlags),1)
    Set DoClient = *($InstalledFlags),2)
    Set DoAdmin = *($InstalledFlags),3)
    Set DoServerOnly = *($InstalledFlags),4)
    Set DoClientOnly = *($InstalledFlags),5)
    Set DoAdminOnly = *($InstalledFlags),6)
Endif
Debug-Output "Installed List is "$InstalledComps)
Debug-Output "Installed Flags is "$InstalledFlags)
ifstr(i) $(DoAdminOnly) == TRUE
    set REMOVE_SOFTWARE = {$(ProductRASName)}
    goto RemoveSoftware
endif
set REMOVE_SOFTWARE = >($REMOVE_SOFTWARE), $(ProductRASName))
ifstr(i) $(DoServer) == TRUE
    set REMOVE_SOFTWARE = >($REMOVE_SOFTWARE), $(ProductRASSVRName))
endif
set REMOVE_SOFTWARE = >($REMOVE_SOFTWARE), $(ProductRASMANNName))
set REMOVE_SOFTWARE = >($REMOVE_SOFTWARE), $(!ProductRASAUTODIALName))
OpenRegKey $(!REG_H_LOCAL) "" $(!NetworkCardKeyName) $(!MAXIMUM_ALLOWED)
KeyNetcards
ifstr $(KeyNetcards) == $(KeyNull)
    Debug-Output "OEMNSVRA.INF: could not open Netcards key"

```

```

        goto RemoveSoftware
endif
EnumRegKey $(KeyNetcards) NetcardsList
ForListDo $(NetcardsList)
    set KeyName = *($($),1)
    OpenRegKey $(KeyNetcards) "" $(KeyName) $(!MAXIMUM_ALLOWED) Card
    ifstr $(Card) == $(KeyNull)
        Debug-Output "OEMNSVRA.INF: could not open netcard key"
        goto RemoveSoftware
    endif
    GetRegValue $(Card), "ProductName" ProductNameInfo
    set CardProductName = *$(ProductNameInfo), 4)
    ifstr(i) $(CardProductName) == $(!ProductNDISWANName)
        set !NETCARD_LIST = >$(!NETCARD_LIST), +
            {$(!ProductNDISWANName),+
                $(!NetworkCardKeyName)"\"$(KeyName)}}
    else-ifstr(i) $(CardProductName) == $(!ProductNDISWANDIALINName)
        set !NETCARD_LIST = >$(!NETCARD_LIST), +
            {$(!ProductNDISWANName),+
                $(!NetworkCardKeyName)"\"$(KeyName)}}
    else-ifstr(i) $(CardProductName) == $(!ProductNDISWANDIALOUTName)
        set !NETCARD_LIST = >$(!NETCARD_LIST), +
            {$(!ProductNDISWANName),+
                $(!NetworkCardKeyName)"\"$(KeyName)}}
    else-ifstr(i) $(CardProductName) == $(!ProductNDISWANDIALINIPName)
        set !NETCARD_LIST = >$(!NETCARD_LIST), +
            {$(!ProductNDISWANName),+
                $(!NetworkCardKeyName)"\"$(KeyName)}}
    else-ifstr(i) $(CardProductName) == $(!ProductNDISWANDIALOUTIPName)
        set !NETCARD_LIST = >$(!NETCARD_LIST), +
            {$(!ProductNDISWANName),+
                $(!NetworkCardKeyName)"\"$(KeyName)}}
    else-ifstr(i) $(CardProductName) == $(!ProductNDISWANDIALINOUTIPXName)
        set !NETCARD_LIST = >$(!NETCARD_LIST), +
            {$(!ProductNDISWANName),+
                $(!NetworkCardKeyName)"\"$(KeyName)}}
    else-ifstr(i) $(CardProductName) == $(ProductRASASYMACName)
        set !NETCARD_LIST = >$(!NETCARD_LIST),+
            {$(ProductRASASYMACName),+
                $(!NetworkCardKeyName)"\"$(KeyName)}}
    endif
    CloseRegKey $(Card)
EndForListDo
CloseRegKey $(KeyNetcards)
read-syms StatusUpdatingRegistry$(!STF_LANGUAGE)
QueryListSize NumRemove $(!NETCARD_LIST)
ForListDo $(!NETCARD_LIST)
    shell $(subroutninf) PushBillboard NETSTATUSDLG +
        $(RemovingAdapters)" \"$(NumRemove)
    Set BillboardVisible = 1
    debug-output "Removing hardware component: \"$(($)
    Shell $(!UtilityInf), RemoveHardwareComponent, $(!Manufacturer),+
        *($($),1), *($($),2)
    set-sub NumRemove = $(NumRemove), 1
EndForListDo
ifint $(BillboardVisible) != 0
    Shell "subroutn.inf" PopBillboard
    Set BillboardVisible = 0
endif
endif

```



```

RemoveSoftware = +
  Shell "" RemoveRasArpService
  Shell "" RemoveNdisTapiService
  Shell "" RemoveRasAcidService
  set RasTapiDevicesKey = $(KeyNull)
  OpenRegKey $(!REG_H_LOCAL) "" $(RasTapiDevicesKeyName) $(!MAXIMUM_ALLOWED)
RasTapiDevicesKey
  ifstr $(RasTapiDevicesKey) != $(KeyNull)
    set TapiProviderList = {}
    EnumRegKey $(RasTapiDevicesKey) TapiProviderList
    ForListDo $(TapiProviderList)
      set ProviderName = *($($),1)
      Debug-Output "OEMNSVRA.INF: Removing "$(ProviderName)" dependency on
NdisTapi."
      Shell "" RemoveServiceDependency $(ProviderName) "NdisTapi"
    EndForListDo
  EndIf
  set fIpxAllowed = FALSE
  Shell "" QuerySelectedProtocols
  ifstr(i) $($R0) == STATUS_SUCCESSFUL
    set fIpxAllowed = $($R6)
  else
    Debug-Output "RemoveRas: error QuerySelectedProtocols"
  endif
  ifstr(i) $(fIpxAllowed) == TRUE
    Shell "" RemoveNwlnkRipService
    Shell "" RemoveIsnSapService
  endif
  Debug-Output "Remove Software List "$(REMOVE_SOFTWARE)
  ForListDo $(REMOVE_SOFTWARE)
    Debug-Output "Removing software component: "$($)
    ifstr(i) $($$) == RAS
      OpenRegKey $(!REG_H_LOCAL) "" $(ProductKeyBase) +
        $(!MAXIMUM_ALLOWED) ProductKey
      Ifstr $(ProductKey) == $(KeyNull)
        Debug-Output "OEMNSVRA.INF: could not open Software product key"
        goto RemoveFiles
      endif
      DeleteRegTree $(ProductKey) $(Product$($$)Name)
      CloseRegKey $(ProductKey)
    else
      Shell $(!UtilityInf), RemoveSoftwareComponent, $(!Manufacturer), $($$)
    endif
  EndForListDo
RemoveFiles = +
  Install RemoveRasFiles
  ifstr(i) $(DoServerOnly) == FALSE
    Install RemoveRasGroup
  endif
  Shell "" RemoveInfFromReviewPrograms
  shell "" RemoveNetGroupDependency
RemoveRasOver = +
  Debug-Output "OEMNSVRA.INF: Doing a forcible cleanup..."
  OpenRegKey $(!REG_H_LOCAL) "" $(!NTN_SoftwareBase)"\Microsoft" +
    $(!MAXIMUM_ALLOWED) KeySoftware
  ifstr $(KeySoftware) != $(KeyNull)
    set SoftList = {"ASYNCMAC", "NDISWAN", "RAS", "RASMAN", +
      "RASAUTO", "REMOTEACCESS"}
    ForListDo $(SoftList)

```

```

DeleteRegTree $(KeySoftware) $($)
EndForListDo
set NetworkCardKey = $(KeyNull)
OpenRegKey $(!REG_H_LOCAL) "" $(!NetworkCardKeyName) +
$(!MAXIMUM_ALLOWED) NetworkCardKey
Ifstr(i) $(NetworkCardKey) != $(KeyNull)
set NetcardsList = {}
EnumRegKey $(NetworkCardKey) NetcardsList
Ifint $(RegLastError) == $(!REG_ERROR_SUCCESS)
ForListDo $(NetcardsList)
set KeyName = *($($),1)
set Card = $(KeyNull)
OpenRegKey $(NetworkCardKey) "" $(KeyName) $(!MAXIMUM_ALLOWED) Card
ifstr $(Card) == $(KeyNull)
Debug-Output "RemoveRas: could not open netcard key "$(KeyName)
else
GetRegValue $(Card), "ProductName" ProductNameInfo
Ifint $(RegLastError) != $(!REG_ERROR_SUCCESS)
Debug-Output "RemoveRas: ProductName not found."
else
set CardProductName = *$(ProductNameInfo), 4)
Debug-Output "RemoveRas: ProductName. "$(CardProductName)
ifstr(i) $(CardProductName) == $(!ProductNDISWANName)
DeleteRegTree $(NetworkCardKey) $(KeyName)
endif
ifstr(i) $(CardProductName) == $(!ProductNDISWANDIALINName)
DeleteRegTree $(NetworkCardKey) $(KeyName)
endif
ifstr(i) $(CardProductName) == $(!
ProductNDISWANDIALOUTName)
DeleteRegTree $(NetworkCardKey) $(KeyName)
endif
ifstr(i) $(CardProductName) == $(!
ProductNDISWANDIALINIPName)
DeleteRegTree $(NetworkCardKey) $(KeyName)
endif
ifstr(i) $(CardProductName) == $(!
ProductNDISWANDIALOUTIPName)
DeleteRegTree $(NetworkCardKey) $(KeyName)
endif
ifstr(i) $(CardProductName) == $(!
ProductNDISWANDIALINOUTIPXName)
DeleteRegTree $(NetworkCardKey) $(KeyName)
endif
ifstr(i) $(CardProductName) == $(ProductRASASYMACName)
DeleteRegTree $(NetworkCardKey) $(KeyName)
endif
endif
EndForListDo
else
Debug-Output "RemoveRas: EnumRegKey failed."
endif
else
Debug-Output "RemoveRas: failed to open "$(NetworkCardKeyName)
endif
CloseRegKey $(KeySoftware)
else
Debug-Output "RemoveRas: failed to open software key"
endif
endif

```

```

OpenRegKey $(!REG_H_LOCAL) "" $(!NTN_ServiceBase) +
    $(!MAXIMUM_ALLOWED) KeyServices
ifstr $(KeyServices) != $(KeyNull)
    set ServiceList = {"ASYNCMAC", "NDISWAN", "RASARP", "RASMAN", +
        "REMOTEACCESS", "RASACD", "RASAUTO"}
    ForListDo $(ServiceList)
        DeleteRegTree $(KeyServices) $($ )
    EndForListDo
    EnumRegKey $(KeyServices) ServiceList
    Ifint $(RegLastError) == $(!REG_ERROR_SUCCESS)
        ForListDo $(ServiceList)
            set ServiceName = *($($),1)
            set Result = 1
            LibraryProcedure Result $(!LIBHANDLE) SetupStrncmp +
                $(ServiceName) "NdisWan" 7
            ifint $(Result) == 0
                Debug-Output "RemoveRas: Removing "$(ServiceName)
                DeleteRegTree $(KeyServices) $(ServiceName)
            else
                LibraryProcedure Result $(!LIBHANDLE) SetupStrncmp +
                    $(ServiceName) "AsyncMac" 8
                ifint $(Result) == 0
                    Debug-Output "RemoveRas: Removing "$(ServiceName)
                    DeleteRegTree $(KeyServices) $(ServiceName)
                endif
            endif
        EndForListDo
    endif
    CloseRegKey $(KeyServices)
endif
EndWait
goto $(to)
BindingsRas = +
Debug-Output "OEMNSVRA.INF:Review bindings is being called!!!"
Shell "" UpdateSelectedProtocols
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "error shelling UpdateSelectedProtocols."
    goto ShellCodeError
endif
Ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "error returned by UpdateSelectedProtocols."
endif
set fNetbeuiChosen = $($R1)
set fTcpIpChosen = $($R2)
set fIpxChosen = $($R3)
ifstr(i) $(fNetbeuiChosen) == FALSE
    ifstr(i) $(fTcpIpChosen) == FALSE
        ifstr(i) $(fIpxChosen) == FALSE
            read-syms NoProtocolsDlg$(!STF_LANGUAGE)
            Shell $(subroutninf) SetupMessage, $(!STF_LANGUAGE), "STATUS", $
(NoProtocolsWarning)
            ifint $($ShellCode) != $(!SHELL_CODE_OK)
                goto ShellCodeError
            endif
            goto end
        endif
    endif
endif
endif
set WkstaConfigured = FALSE

```

```

set SrvrConfigured = FALSE
shell "" IsNetworkConfigured
Debug-Output "IsNetworkConfigured returned R0 "$($R0)
Debug-Output "IsNetworkConfigured returned R1 "$($R1)
Debug-Output "IsNetworkConfigured returned R2 "$($R2)
ifstr(i) $($R0) == STATUS_SUCCESSFUL
    set WkstaConfigured = $($R1)
    set SrvrConfigured = $($R2)
else
    read-syms NetworkConfigError$(!STF_LANGUAGE)
    set Text = $(Text1)
    shell $(subroutninf) SetupMessage $(!STF_LANGUAGE) "FATAL" $(Text)
    goto end
endif
ifstr(i) $(WkstaConfigured) == TRUE
    ifstr(i) $(SrvrConfigured) == TRUE
        goto ResetProgramList
    else
        goto InstallNetworkError
    endif
else
    goto InstallNetworkError
endif
InstallNetworkError +=
set CommonStatus = STATUS_USERCANCEL
read-syms NetworkConfigError$(!STF_LANGUAGE)
set Text = $(Text2)
shell $(subroutninf) SetupMessage $(!STF_LANGUAGE) "STATUS" $(Text)
ResetProgramList +=
OpenRegKey $(!REG_H_LOCAL) "" $(!RasManKeyName) $(!MAXIMUM_ALLOWED) KeyRasMan
ifstr $(KeyRasMan) != $(KeyNull)
    GetRegValue $(KeyRasMan), "Review" ReviewInfo
    set ReviewValue = *($ReviewInfo), 4)
    ifint $(ReviewValue) == 1
        Debug-Output "BindingsRas: resetting Review to 0"
        SetRegValue $(KeyRasMan) {Review,$(NoTitle),$(!REG_VT_DWORD), 0}
        Shell "" AddInfToReviewProgramsList
        ifint $($ShellCode) != $(!SHELL_CODE_OK)
            Debug-Output "error shelling AddInfToReviewProgramsList."
            goto ShellCodeError
        endif
        ifstr(i) $($R0) != STATUS_SUCCESSFUL
            Debug-Output "error returned by AddInfToReviewProgramsList."
        endif
    endif
    CloseRegKey $(KeyRasMan)
else
    Debug-Output "OEMNSVRA.INF: error opening SOFTWARE\RasMan\CurrentVersion
key."
endif
shell "" QueryComponentsInstalled
Ifstr(i) $($R0) == STATUS_SUCCESSFUL
    Set InstalledComps = $($R1)
    Set InstalledFlags = $($R2)
    Set DoServer = *($InstalledFlags),1)
    Set DoClient = *($InstalledFlags),2)
    Set DoAdmin = *($InstalledFlags),3)
    Set DoServerOnly = *($InstalledFlags),4)
    Set DoClientOnly = *($InstalledFlags),5)

```

```

        Set DoAdminOnly = *($ (InstalledFlags),6)
    Endif
    Debug-Output "Installed List is "$ (InstalledComps)
    Debug-Output "Installed Flags is "$ (InstalledFlags)
    set AsyStartValue = 4
    OpenRegKey $(!REG_H_LOCAL) "" $ (RasAsyMacKeyName) $(!MAXIMUM_ALLOWED) KeyMac
    ifstr $ (KeyMac) == $ (KeyNull)
        Debug-Output "OEMNSVRA.INF: could not open AsyncMac key"
    else
        GetRegValue $ (KeyMac), "Start" AsyStartInfo
        ifint $ (RegLastError) == 0
            set AsyStartValue = *($ (AsyStartInfo), 4)
        endif
        Debug-Output "OEMNSVRA.INF: AsyncMac start value "$ (AsyStartValue)
        CloseRegKey $ (KeyMac)
    endif
    set NdisWanParam = {}
    set NdisWanEndpointsLst = {}
    ifint $ (AsyStartValue) != 4
        set RasMacLinkageKey = $ (KeyNull)
        OpenRegKey $(!REG_H_LOCAL) "" $ (RasMacLinkageKeyName) $(!MAXIMUM_ALLOWED)
RasMacLinkageKey
        ifstr $ (RasMacLinkageKey) == $ (KeyNull)
            Debug-Output "OEMNSVRA.INF: could not open AsyncMac linkage key"
            set RegistryErrorIndex = UNABLE_ACCESS_CONFIGURE_SERVICE
            goto fatalregistry
        endif
        GetRegValue $ (RasMacLinkageKey), "Bind" BindInfo
        set NdisWanParam = *($ (BindInfo), 4)
        CloseRegKey $ (RasMacLinkageKey)
        set NdisWanParamKey = $ (KeyNull)
        OpenRegKey $(!REG_H_LOCAL) "" $ (NdisWanParamKeyName) $(!MAXIMUM_ALLOWED)
NdisWanParamKey
        ifstr $ (NdisWanParamKey) == $ (KeyNull)
            Debug-Output "OEMNSVRA.INF: could not open NdisWanParamKey"
        else
            GetRegValue $ (NdisWanParamKey), "Endpoints" EndPointsInfo
            set EndPointsLst = *($ (EndPointsInfo), 4)
            set NdisWanEndpointsLst = >($ (NdisWanEndpointsLst), *($ (EndPointsLst), 1))
            CloseRegKey $ (NdisWanParamKey)
        endif
    endif
    set ProviderList = {}
    set RasTapiDevicesKey = $ (KeyNull)
    OpenRegKey $(!REG_H_LOCAL) "" $ (RasTapiDevicesKeyName) $(!MAXIMUM_ALLOWED)
RasTapiDevicesKey
    ifstr $ (RasTapiDevicesKey) != $ (KeyNull)
        set TapiProviderList = {}
        EnumRegKey $ (RasTapiDevicesKey) TapiProviderList
        ForListDo $ (TapiProviderList)
            set TapiAddress = {}
            set NumEndpoints = 0
            set ProviderName = *($ ($),1)
            Debug-Output "OEMNSVRA.INF: TAPI provider name = "$ (ProviderName)
            OpenRegKey $ (RasTapiDevicesKey) "" $ (ProviderName) $(!MAXIMUM_ALLOWED)
Provider
            ifstr $ (Provider) != $ (KeyNull)
                GetRegValue $ (Provider), "Address" TapiAddress
                set AdapterNum = ""
            endif
        EndFor
    endif

```

```

set EndPointCount = 0
set tmpNdisWanParam = {}
set tmpNdisWanEndPointsLst = {}
set DeviceName = ""
ForListDo *($ (TapiAddress), 4)
    Split-String $(Address) "- " Address
    set NewAdapterNum = *($ (Address), 1)
    ifstr(i) $(AdapterNum) != $(NewAdapterNum)
        ifstr(i) $(AdapterNum) != ""
            set tmpNdisWanParam = >($ (tmpNdisWanParam), $(DeviceName))
            set tmpNdisWanEndPointsLst = >($ (tmpNdisWanEndPointsLst), $(
(EndPointCount))
                set EndPointCount = 0
            endif
            set AdapterNum = $(NewAdapterNum)
            set DeviceName = "\Device\"$(ProviderName)$ (AdapterNum)
        endif
        set-add EndPointCount = $(EndPointCount), 1
    EndForListDo
    ifstr $(DeviceName) != ""
        set tmpNdisWanParam = >($ (tmpNdisWanParam), $(DeviceName))
        set tmpNdisWanEndPointsLst = >($ (tmpNdisWanEndPointsLst), $(
(EndPointCount))
            endif
            CloseRegKey $(Provider)
        else
            Debug-Output "OEMNSVRA.INF: could not open RAS\TAPI DEVICES\"$(
(DriverName))" key."
            endif
            set ProviderKeyName = $(!NTN_ServiceBase)"\"$(ProviderName)
            set ProviderLinkageKeyName = $(!NTN_ServiceBase)"\"$(ProviderName)"\
Linkage"
            Debug-Output "TAPI provider key name \"$(ProviderKeyName)
            set ProviderKey = $(KeyNull)
            set ProviderLinkageKey = $(KeyNull)
            OpenRegKey $(!REG_H_LOCAL) "" $(ProviderKeyName) $(!MAXIMUM_ALLOWED)
ProviderKey
            ifstr $(ProviderKey) == $(KeyNull)
                Debug-Output "OEMNSVRA.INF: could not open key \"$(ProviderKeyName)
            else
                set DeleteFlag = 0
                set DeleteFlagInfo = {}
                GetRegValue $(ProviderKey), "DeleteFlag", DeleteFlagInfo
                set DeleteFlag = *($ (DeleteFlagInfo), 4)
                ifint $(DeleteFlag) != 1
                    set ProviderList = >($ (ProviderList), $(ProviderName))
                    Shell "" AddServiceDependency $(ProviderName) "NdisTapi"
                    ForListDo $(tmpNdisWanParam)
                        set NdisWanParam = >($ (NdisWanParam), $(Address))
                        set NdisWanEndPointsLst = >($ (NdisWanEndPointsLst), *($
(tmpNdisWanEndPointsLst), $(#)))
                    EndForListDo
                endif
                CloseRegKey $(ProviderKey)
            endif
        EndForListDo
        CloseRegKey $(RasTapiDevicesKey)
    else
        Debug-Output "OEMNSVRA.INF: could not open RAS\TAPI DEVICES key"

```

```

endif
set NumBindings = 0
Debug-Output "NdisWan param Bind value = "$(NdisWanParam)
QueryListSize NumBindings $(NdisWanParam)
Debug-Output "Number of Ndiswan bindings = "$(NumBindings)
ifint $(NumBindings) == 0
    Debug-Output "OEMNSVRA.INF: No ports are configured"
    read-syms NoPortsConfigured$(!STF_LANGUAGE)
    Shell $(subroutninf) SetupMessage, $(!STF_LANGUAGE), "STATUS", $
(NoPortsError)
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        goto ShellCodeError
    endif
    goto end
endif
OpenRegKey $(!REG_H_LOCAL) "" $(NdisWanParamKeyName) $(!MAXIMUM_ALLOWED)
NdisWanParamKey
ifstr $(NdisWanParamKey) == $(KeyNull)
    Debug-Output "OEMNSVRA.INF: could not open NdisWanParamKey"
    set RegistryErrorIndex = UNABLE_ACCESS_CONFIGURE_SERVICE
    goto fatalregistry
endif
Debug-Output "Setting NdisWan param Bind to "$(NdisWanParam)
set NewValueList = {{Bind, $(NoTitle), $(!REG_VT_MULTI_SZ), $(NdisWanParam)}}
Shell $(!UtilityInf), AddValueList, $(NdisWanParamKey), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    CloseRegKey $(NdisWanParamKey)
    goto ShellCodeError
endif
Debug-Output "Setting NdisWan param EndPoints to "$(NdisWanEndPointsLst)
set NewValueList = {{EndPoints, $(NoTitle), $(!REG_VT_MULTI_SZ), $
(NdisWanEndPointsLst)}}
Shell $(!UtilityInf), AddValueList, $(NdisWanParamKey), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    CloseRegKey $(NdisWanParamKey)
    goto ShellCodeError
endif
CloseRegKey $(NdisWanParamKey)
LoadLibrary "x" $(!STF_CWDDIR)rascfg.dll PORTSDLGHANDLE
LibraryProcedure Result, $(PORTSDLGHANDLE), InitRasmanSecurityDescriptor
Debug-Output "Result of setting Rasman security descriptor "$(Result)
LibraryProcedure Result, $(PORTSDLGHANDLE), InitRemoteSecurityDescriptor
Debug-Output "Result of setting Remote security descriptor "$(Result)
Shell "" UpdateCPList
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "error shelling UpdateCPList."
    goto ShellCodeError
endif
Ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "error returned by UpdateCPList."
endif
ifstr(i) $(fTcpIpChosen) == TRUE
    shell "" UpdateLLInterface
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "error shelling UpdateLLInterface."
        goto ShellCodeError
    endif
    Ifstr(i) $($R0) != STATUS_SUCCESSFUL
        Debug-Output "error returned by UpdateLLInterface."

```

```

        endif
    endif
    Shell "" SetRasArpBindValueFromTcpIP
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "error shelling SetRasArpBindValueFromTcpIP."
        goto ShellCodeError
    endif
    Ifstr(i) $($R0) != STATUS_SUCCESSFUL
        Debug-Output "error returned by SetRasArpBindValueFromTcpIP."
    endif
    Debug-Output "Review bindings done."
    goto end
UpgradeRas = +
    Debug-Output "OEMNSVRA.INF: Upgrade with Option type "$(Option)
    ifstr(i) $(Option) != "RAS"
        Debug-Output "OEMNSVRA.INF: not upgrading due to nonras option"
        set CommonStatus = STATUS_NOEFFECT
        goto end
    endif
    OpenRegKey $(!REG_H_LOCAL) "" $(ProductKeyName) $(!MAXIMUM_ALLOWED) KeyProduct
    Ifstr $(KeyProduct) != $(KeyNull)
        Shell $(!UtilityInf), GetInfFileNameFromRegistry, $(KeyProduct)
        ifint $($ShellCode) != $(!SHELL_CODE_OK)
            Debug-Output "ShellCode error"
            goto ShellCodeError
        endif
        set !UG_Filename = $($R0)
        ifstr(i) $(!UG_Filename) != ""
            Debug-Output "File Name is "$(UG_Filename)
            StartWait
            read-syms UpgradeErrors$(!STF_LANGUAGE)
            read-syms StatusUpdatingRegistry$(!STF_LANGUAGE)
            Shell "subroutn.inf" PushBillboard NETSTATUSDLG $(UpdatingRas)
            Set BillboardVisible = 1
            shell "" QueryComponentsInstalled
            Ifstr(i) $($R0) == STATUS_SUCCESSFUL
                Set InstalledComps = $($R1)
                Set InstalledFlags = $($R2)
                Set DoServer = *$(InstalledFlags),1)
                Set DoClient = *$(InstalledFlags),2)
                Set DoAdmin = *$(InstalledFlags),3)
                Set DoServerOnly = *$(InstalledFlags),4)
                Set DoClientOnly = *$(InstalledFlags),5)
                Set DoAdminOnly = *$(InstalledFlags),6)
            Endif
            Debug-Output "Installed List is "$(InstalledComps)
            Debug-Output "Installed Flags is "$(InstalledFlags)
            Set ServerInstalled = $(DoServer)
            Set ClientInstalled = $(DoClient)
            Set AdminInstalled = $(DoAdmin)
            Install InstallResources
            ifstr(i) $(STF_INSTALL_OUTCOME) != STF_SUCCESS
                goto filecopycancel
            endif
            Install InstallRasFiles
            ifstr(i) $(STF_INSTALL_OUTCOME) != STF_SUCCESS
                goto filecopycancel
            endif
            set fTcpIp = FALSE

```



```

Shell "" QuerySelectedProtocols
Ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "error returned by QuerySelectedProtocols."
endif
set fNetbeuiSelected = $($R1)
set fTcpIpSelected   = $($R2)
set fIpxSelected     = $($R3)
set fNetbeuiAllowed = $($R4)
set fTcpIpAllowed    = $($R5)
set fIpxAllowed      = $($R6)
ifstr(i) $(fTcpIpSelected) == TRUE
    set fTcpIp = "TRUE"
else-ifstr(i) $(fTcpIpAllowed) == TRUE
    set fTcpIp = "TRUE"
endif
ifstr(i) $(fTcpIp) == TRUE
    Shell "" RemoveServiceDependency "TCPIP" "RASARP"
    Shell "" RemoveRasArpService
    Shell "" InstallRasArpService
endif
Shell "" SetRestoreConnectionTo1
Shell "" RemoveServiceDependency "RemoteAccess" "NetLogon"
Shell "" AddServiceDependency "RasMan" "tapisrv"
Shell "" InstallSoftwareAndService RASAUTODIAL
Shell "" AddServiceDependency "RasAuto" "RasMan"
Shell "" RemoveRasAcdService
Shell "" InstallRasAcdService
OpenRegKey $(!REG_H_LOCAL) "" $(!RasManSvcKeyName) $(!MAXIMUM_ALLOWED)
KeyRasMan
ifstr $(KeyRasMan) == $(KeyNull)
    Debug-Output "OEMNSVRA.INF: could not open RasMan key"
else
    SetRegValue $(KeyRasMan) {Type, $(NoTitle), $(!REG_VT_DWORD), 32}
    CloseRegKey $(KeyRasMan)
endif
LoadLibrary "x" $(!STF_CWDDIR)rascfg.dll PORTSDLGHANDLE
LibraryProcedure Result, $(PORTSDLGHANDLE), RenameRasHubToNdisWan
Shell "" RenameRasHubToNdisWan
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "OEMNSVRA.INF:error shelling RenameRasHubToNdisWan."
    goto ShellCodeError
endif
Ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "OEMNSVRA.INF:error returned by
RenameRasHubToNdisWan."
    goto end
endif
Shell "" IsNdisWanBHAdapterInstalled
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "OEMNSVRA.INF:error shelling
IsNdisWanBHAdapterInstalled"
    goto ShellCodeError
endif
ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Shell "" InstallNdisWanBHAdapter
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "OEMNSVRA.INF:error shelling
InstallNdisWanBHAdapter"
        goto ShellCodeError

```

```

endif
ifstr(i) $($R0) != STATUS_SUCCESSFUL
    set RegistryErrorIndex = $($R0)
    Debug-Output "Error installing NdisWan Blood hound adapter"
    goto fatalregistry
endif
endif
Shell "" InstallNdisTapiService
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "Error shelling InstallNdisTapiService "
    goto ShellCodeError
endif
ifstr(i) $($R0) != STATUS_SUCCESSFUL
    set RegistryErrorIndex = $($R0)
    Debug-Output "Error installing NdisTapi Service"
    goto fatalregistry
endif
Shell "" UpdateAsyncMacNetRules
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "OEMNSVRA.INF:error shelling UpdateAsyncMacNetRules."
    goto ShellCodeError
endif
Ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "OEMNSVRA.INF:error returned by
UpdateAsyncMacNetRules."
    goto end
endif
Shell "" UpdateNdisWanInfo
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "OEMNSVRA.INF:error shelling UpdateNdisWanInfo."
    goto ShellCodeError
endif
Ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "OEMNSVRA.INF:error returned by UpdateNdisWanInfo."
    goto end
endif
Shell "" AddNDISWANToServiceGroupOrder
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "Cannot add NDISWAN to ServiceGroupOrder"
    goto ShellCodeError
endif
Shell "" UpdateAsyncMacParameters
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "OEMNSVRA.INF:error shelling
UpdateAsyncMacParameters."
    goto ShellCodeError
endif
Ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "OEMNSVRA.INF:error returned by
UpdateAsyncMacParameters."
    goto end
endif
Shell "" UpdateAsyncMacStartType
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "OEMNSVRA.INF:error shelling UpdateAsyncMacStartType."
    goto ShellCodeError
endif
Ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "OEMNSVRA.INF:error returned by

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UpdateAsyncMacStartType."
    goto end
endif
Shell "" UpgradeSelectedProtocols
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "OEMNSVRA.INF:error shelling
UpgradeSelectedProtocols."
    goto ShellCodeError
endif
Ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "OEMNSVRA.INF:error returned by
UpgradeSelectedProtocols."
    goto end
endif
ifstr(i) $(!STF_STANDARDSERVERUPGRADE) == "YES"
    OpenRegKey $(!REG_H_LOCAL) "" $(RasProtocolsKeyName) +
        $(!MAXIMUM_ALLOWED) KeyProtocols
    ifstr $(KeyProtocols) != $(KeyNull)
        set fDialin = FALSE
        set TmpList = {}
        GetRegValue $(KeyProtocols) "fNetbeuiAllowed" TmpList
        ifint $(RegLastError) == 0
            ifstr *$(TmpList), 4) == 1
                set fDialin = TRUE
            endif
        endif
        set TmpList = {}
        ifstr(i) $(fDialin) == FALSE
            GetRegValue $(KeyProtocols) "fTcpIpAllowed" TmpList
            ifint $(RegLastError) == 0
                ifstr *$(TmpList), 4) == 1
                    set fDialin = TRUE
                endif
            endif
        endif
        set TmpList = {}
        ifstr(i) $(fDialin) == FALSE
            GetRegValue $(KeyProtocols) "fIpxAllowed" TmpList
            ifint $(RegLastError) == 0
                ifstr *$(TmpList), 4) == 1
                    set fDialin = TRUE
                endif
            endif
        endif
        Debug-Output "OEMNSVRA.INF: Upgrade => Are dialin ports
configured? "$(fDialin)
        ifstr(i) $(fDialin) == TRUE
            OpenRegKey $(!REG_H_LOCAL) "" $(RasSvrKeyName) +
                $(!MAXIMUM_ALLOWED) KeySvr
            ifstr $(KeySvr) != $(KeyNull)
                set RasStartValue = 2
                GetRegValue $(KeySvr) "Start" StartList
                ifint $(RegLastError) == 0
                    set RasStartValue = *$(StartList), 4)
                endif
                ifint $(RasStartValue) != 4
                    Debug-Output "OEMNSVRA.INF: Changing RemoteAccess
Start value to 2"
                    SetRegValue $(KeySvr) {Start,$(NoTitle),$(!

```

```

REG_VT_DWORD), 2}
        endif
        CloseRegKey $(KeySvr)
    else
        Debug-Output "OEMNSVRA.INF: error opening RemoteAccess
service key"
        endif
    endif
    CloseRegKey $(KeyProtocols)
else
    Debug-Output "OEMNSVRA.INF: could not open RAS\Protocols key"
endif
OpenRegKey $(!REG_H_LOCAL) "" $(!NdisTapiKeyName)\Parameters" $(!
MAXIMUM_ALLOWED) ParamKey
Ifstr(i) $(ParamKey) != $(KeyNull)
    SetRegValue $(ParamKey) {AsyncEventQueueSize, 0, $(!
REG_VT_DWORD), 3072}
    CloseRegKey $(ParamKey)
EndIf
endif
Shell "" UpgradeIpxInfo $(PORTSDLGHANDLE)
Shell "" UpgradeIsdnInfo
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "OEMNSVRA.INF:error shelling UpgradeIsdnInfo."
    goto ShellCodeError
endif
Ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "OEMNSVRA.INF:error returned by UpgradeIsdnInfo."
    set Error = $(UpgradeIsdnInfoError)
    goto fatal
endif
Shell "" UpdatePerfmonInfo
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "OEMNSVRA.INF:error shelling UpdatePerfmonInfo."
    goto ShellCodeError
endif
Ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "OEMNSVRA.INF:error returned by UpdatePerfmonInfo."
    goto end
endif
Shell "" UpdateCPList
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "OEMNSVRA.INF:error shelling UpdateCPList."
    goto ShellCodeError
endif
Ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "OEMNSVRA.INF:error returned by UpdateCPList."
    goto end
endif
ifstr(i) $(!STF_PRODUCT) != "WINNT"
    OpenRegKey $(!REG_H_LOCAL) "" $(!NdisTapiKeyName)\Parameters" $(!
MAXIMUM_ALLOWED) ParamKey
    Ifstr(i) $(ParamKey) != $(KeyNull)
        SetRegValue $(ParamKey) {AsyncEventQueueSize, 0, $(!
REG_VT_DWORD), 3072}
        CloseRegKey $(ParamKey)
    EndIf
EndIf
Install RemoveRasGroup

```

```

        EndWait
        Ifint $(BillboardVisible) != 0
            Shell "subroutn.inf" PopBillboard
            Set BillboardVisible = 0
        Endif
    endif
    Shell "" UpdateSoftwareType
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "OEMNSVRA.INF:error shelling UpdateSoftwareType."
        goto ShellCodeError
    endif
    Ifstr(i) $($R0) != STATUS_SUCCESSFUL
        Debug-Output "OEMNSVRA.INF:error returned by UpdateSoftwareType."
        goto end
    endif
    SetRegValue $(KeyProduct) {MajorVersion,$(NoTitle),$(!REG_VT_DWORD),$(!
ProductMajorVersion)}
    SetRegValue $(KeyProduct) {MinorVersion,$(NoTitle),$(!REG_VT_DWORD),$(!
ProductMinorVersion)}
    SetRegValue $(KeyProduct) {Description,$(NoTitle),$(!REG_VT_SZ),$
(ProductRASDescription)}
    SetRegValue $(KeyProduct) {OperationsSupport,$(NoTitle),$(!REG_VT_DWORD),$
(ProductOpSupport)}
    CloseRegKey $(KeyProduct)
else
    Set RegistryErrorIndex = $($R0)
    goto fatalregistry
endif
goto end
successful = +
Ifstr(i) $(!NTN_InstallPhase) == primary
    goto installstep1
else-ifstr(i) $(!NTN_InstallMode) == configure
    goto installstep1
endif
ifint $(NewNumDialin) != 0
    ifstr(i) $(!STF_GUI_UNATTENDED) != YES
        read-syms SuccessfulInstall$(!STF_LANGUAGE)
        shell "subroutn.inf" SetupMessage $(!STF_LANGUAGE) "STATUS" $(Success)
    endif
endif
installstep1 = +
goto end
warning = +
Shell $(subroutninf) SetupMessage, $(!STF_LANGUAGE), "WARNING", $(Error)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    goto ShellCodeError
endif
ifstr(i) $($R1) == "OK"
    goto $(to)
else-ifstr(i) $($R1) == "CANCEL"
    goto $(from)
else
    Debug-Msg "Error Error Bad DLGEVENT"
    goto "end"
endif
nonfatal = +
Shell $(subroutninf) SetupMessage, $(!STF_LANGUAGE), "NONFATAL", $(Error)
ifint $($ShellCode) != $(!SHELL_CODE_OK)

```

```

        goto ShellCodeError
    endif
    ifstr(i) $($R1) == "OK"
        goto $(from)
    else
        goto "end"
    endif
fatalregistry = +
Shell $(!UtilityInf) RegistryErrorString $(RegistryErrorIndex)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "fatalregistry: shell to find RegistryErrorString failed."
    goto ShellCodeError
endif
ifstr(i) $(RasSpecificString) != ""
    set Error = $($R0)" - service "$(RasSpecificString)"."
else
    set Error = $($R0)
endif
read-syms AbortMessage$(!STF_LANGUAGE)
set Error = $(Error)$(!LF)$(!LF)$(AbortText)
goto fatal
fatal = +
Shell $(subroutninf) SetupMessage, $(!STF_LANGUAGE), "FATAL", $(Error)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "fatal: shell to SetupMessage failed."
    goto ShellCodeError
endif
goto setfailed
ShellCodeError = +
read-syms ShellCodeErrorMsg$(!STF_LANGUAGE)
ui start "Error Message"
goto setfailed
setfailed = +
set CommonStatus = STATUS_FAILED
ifstr(i) $(fRemoveRas) == TRUE
    set fRemoveRas = FALSE
    set from = setfailed
    set to = end
    goto RemoveRas
endif
goto end
filecopycancel =+
set CommonStatus = STATUS_USERCANCEL
ifstr(i) $(fRemoveRas) == TRUE
    set fRemoveRas = FALSE
    set from = setfailed
    set to = end
    goto RemoveRas
endif
end = +
ifstr(i) $(PORTSDLGHANDLE) != $(HandleNull)
    Debug-Output "Unloading RASCFG.DLL"
    FreeLibrary $(PORTSDLGHANDLE)
endif
Debug-Output "ending at last!!"
goto term
term = +
Debug-Output "OEMNSVRA.INF:term: CommonStatus "$$(CommonStatus)
Return $(CommonStatus)

```

```

[BindingsReview]
    set Option      = $($1)
    set SrcDir      = $($2)
    set AddCopy     = $($3)
    set DoCopy      = $($4)
    set DoConfig    = $($5)
    set Language    = $(!STF_LANGUAGE)
    set SaveInstallMode = $(!NTN_InstallMode)
    set !NTN_InstallMode = bind
    Shell "" InstallOption $(Language) $(Option) $(SrcDir) $(AddCopy) $(DoCopy) $(DoConfig)
    set !NTN_InstallMode = $(SaveInstallMode)
    set Status = $($R0)
    Return $(Status)
[SetRestoreConnectionTo1]
    Debug-Output "SetRestoreConnectionTo1 entry.."
    set KeyNull = ""
    set RestoreKeyName = "SYSTEM\CurrentControlSet\Control\networkprovider"
    OpenRegKey $(!REG_H_LOCAL) "" $(RestoreKeyName) $(!MAXIMUM_ALLOWED) KeyRestore
    Ifstr(i) $(KeyRestore) != $(KeyNull)
        SetRegValue $(KeyRestore) {RestoreConnection, 0, $(!REG_VT_DWORD), 1}
        CloseRegKey $(KeyRestore)
    else
        Debug-Output "SetRestoreConnectionTo1 error opening key. "$(RestoreKeyName)
    endif
    Debug-Output "SetRestoreConnectionTo1 exit."
    return
[InstallSoftwareAndService]
    set Status = STATUS_SUCCESSFUL
    set ThisOption = $($0)
    Debug-Output "InstallSoftwareAndService for "$(ThisOption)
    Shell $(!UtilityInf), AddSoftwareComponent, $(!Manufacturer), +
        $(!Product$(ThisOption)Name), $(!Product$(ThisOption)Name), +
        $(!Product$(ThisOption)DisplayName), +
        $(!RasInfName), $(!Product$(ThisOption)ImagePath), "autoserviceshare",+
        "", {}, "", $(!RasMsgDll), $(!RasEventTypeSupported)
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "InstallSoftware: AddSoftware bombed out for "$(ThisOption)
        goto InstallSoftwareError
    endif
    set RegistryErrorIndex = $($R0)
    Ifstr(i) $(RegistryErrorIndex) == SERVICE_ALREADY_EXISTS
        return $(Status)
    EndIf
    Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
        CloseRegKey $($R1)
        CloseRegKey $($R2)
        CloseRegKey $($R3)
        CloseRegKey $($R4)
        CloseRegKey $($R5)
        goto InstallSoftwareError
    endif
    Set SoftProductKey      = $($R1)
    CloseRegKey $($R2)
    CloseRegKey $($R3)
    CloseRegKey $($R4)
    CloseRegKey $($R5)
    set NewValueList = +
        {{Infname ,$(NoTitle),$(!REG_VT_SZ),$(!RasInfName)},+

```

```

    {ServiceName,$(NoTitle),$(!REG_VT_SZ),+
    $(!Product$(ThisOption)Name)},+
    {SoftwareType,$(NoTitle),$(!REG_VT_SZ),+
    $(!Product$(ThisOption)SvcType)},+
    {Title,$(NoTitle),$(!REG_VT_SZ),$(!Product$(ThisOption)Title)},+
    {Description,$(NoTitle),$(!REG_VT_SZ),+
    $(!Product$(ThisOption)Description)},+
    {PathName,$(NoTitle),$(!REG_VT_SZ),+
    $(!Product$(ThisOption)ImagePath)},+
    {MajorVersion,$(NoTitle),$(!REG_VT_DWORD),$(!ProductMajorVersion)},+
    {MinorVersion,$(NoTitle),$(!REG_VT_DWORD),$(!ProductMinorVersion)},+
    {InstallDate,$(NoTitle),$(!REG_VT_DWORD),*$(!CurrentDate),1},+
    {Hidden,$(NoTitle),$(!REG_VT_DWORD),$(!HideComponent)}}
Shell $(!UtilityInf), AddValueList, $(SoftProductKey), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "InstallSoftware: AddValueList bombed out for "$(ThisOption)
    goto InstallSoftwareError
endif
set RegistryErrorIndex = $($R0)
CloseRegKey $(SoftProductKey)
Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
    goto InstallSoftwareError
endif
goto InstallSoftwareEnd
InstallSoftwareError =+
read-syms ShellCodeErrorMsg$(!STF_LANGUAGE)
ui start "Error Message"
return STATUS_FAILED
InstallSoftwareEnd =+
return $(Status)
[AddInfToReviewProgramsList]
Debug-Output "AddInfToReviewPrograms: entry"
set Status = STATUS_FAILED
set KeyNull = ""
set NcpaKeyName = $(!NTN_SoftwareBase)"\Microsoft\Ncpa\CurrentVersion"
set newList = {"OEMNSVRA.INF"}
OpenRegKey $(!REG_H_LOCAL) "" $(NcpaKeyName) $(!MAXIMUM_ALLOWED) KeyNcpa
Ifstr(i) $(KeyNcpa) != $(KeyNull)
    GetRegValue $(KeyNcpa) "ReviewPrograms" TmpList
    ifint $(RegLastError) == 0
        Debug-Output "AddInf: old List "*($(TmpList), 4)
        ForListDo *($(TmpList),4)
            ifstr(i) $($) != "OEMNSVRA.INF"
                set newList = >$(newList), $($)
            endif
        EndForListDo
        Debug-Output "OEMNSVRA.INF: AddInf: new List "$(newList)
        SetRegValue $(KeyNcpa) {ReviewPrograms, 0, +
        $(!REG_VT_MULTI_SZ),$(newList)}
        CloseRegKey $(KeyNcpa)
        Set Status = STATUS_SUCCESSFUL
    endif
else
    Debug-Output "AddInfToReviewPrograms: error opening ncpa key."
endif
Debug-Output "AddInfToReviewPrograms: exit"
return $(Status)
[RemoveInfFromReviewPrograms]
Debug-Output "RemoveInfFromReviewPrograms: entry"

```



```

set Status = STATUS_FAILED
set KeyNull = ""
set NcpaKeyName = $(!NTN_SoftwareBase)\Microsoft\Ncpa\CurrentVersion"
set newList = {}
OpenRegKey $(!REG_H_LOCAL) "" $(NcpaKeyName) $(!MAXIMUM_ALLOWED) KeyNcpa
Ifstr(i) $(KeyNcpa) != $(KeyNull)
    GetRegValue $(KeyNcpa) "ReviewPrograms" TmpList
    ifint $(RegLastError) == 0
        Debug-Output "RemoveInf: old List "*($(TmpList), 4)
        ForListDo *($(TmpList),4)
            ifstr(i) $($) != "OEMNSVRA.INF"
                set newList = >$(newList), $($)
            endif
        EndForListDo
        Debug-Output "AddInf: new List "$(newList)
        SetRegValue $(KeyNcpa) {ReviewPrograms, 0, +
            $(!REG_VT_MULTI_SZ),$(newList)}
        CloseRegKey $(KeyNcpa)
        Set Status = STATUS_SUCCESSFUL
    endif
else
    Debug-Output "RemoveInfFromReviewPrograms: error opening ncpa key."
endif
Debug-Output "RemoveInfFromReviewPrograms: exit"
return $(Status)
[InstallResources]
set STF_VITAL = NO
Debug-Output "In Copying Files"
ifstr(i) $(AddCopy) == "YES"
    CreateDir $(RasDir)
    AddSectionFilesToCopyList Files-Resource $(SourceDir) $(!
STF_WINDOWSSYSPATH)
    AddSectionKeyFileToCopyList Files-Ras-Inf "rasico" $(SourceDir) $
(ProductPath)
    AddSectionKeyFileToCopyList Files-Ras-Inf "rasread" $(SourceDir) $
(ProductPath)
    ifstr(i) $(!NTN_InstallMode) == "Install"
        AddSectionKeyFileToCopyList Files-Ras-Inf "modem" $(SourceDir) $
(ProductPath)
        AddSectionKeyFileToCopyList Files-Ras-Inf "pad" $(SourceDir) $
(ProductPath)
        AddSectionKeyFileToCopyList Files-Ras-Inf "switch" $(SourceDir) $
(ProductPath)
        AddSectionKeyFileToCopyList Files-Ras-Scp "cis" $(SourceDir) $
(ProductPath)
        AddSectionKeyFileToCopyList Files-Ras-Scp "slip" $(SourceDir) $
(ProductPath)
        AddSectionKeyFileToCopyList Files-Ras-Scp "slipmenu" $(SourceDir) $
(ProductPath)
        AddSectionKeyFileToCopyList Files-Ras-Scp "pppmenu" $(SourceDir) $
(ProductPath)
        AddSectionKeyFileToCopyList Files-Ras-Scp "scriptdoc" $(SourceDir) $
(ProductPath)
    else-Ifstr(i) $(!NTN_InstallMode) == "Update"
        forlistdo {modem.new, pad.new, switch.new, cis.new, slip.new,
slipmenu.new, pppmenu.new, script.doc}
            LibraryProcedure Status, $(!LIBHANDLE), DelFile +
                $(!STF_WINDOWSSYSPATH)\RAS\"$(i)
        set STF_RENAME = "MODEM.NEW"

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```

        AddSectionKeyFileToCopyList Files-Ras-Inf "modem" $(SourceDir) $
(ProductPath)
        set STF_RENAME = "PAD.NEW"
        AddSectionKeyFileToCopyList Files-Ras-Inf "pad" $(SourceDir) $
(ProductPath)
        set STF_RENAME = "SWITCH.NEW"
        AddSectionKeyFileToCopyList Files-Ras-Inf "switch" $(SourceDir) $
(ProductPath)
        set STF_RENAME = "CIS.SCP"
        AddSectionKeyFileToCopyList Files-Ras-Scp "cis" $(SourceDir) $
(ProductPath)
        set STF_RENAME = "SLIP.SCP"
        AddSectionKeyFileToCopyList Files-Ras-Scp "slip" $(SourceDir) $
(ProductPath)
        set STF_RENAME = "SLIPMENU.SCP"
        AddSectionKeyFileToCopyList Files-Ras-Scp "slipmenu" $(SourceDir) $
(ProductPath)
        set STF_RENAME = "PPPMENU.SCP"
        AddSectionKeyFileToCopyList Files-Ras-Scp "pppmenu" $(SourceDir) $
(ProductPath)
        set STF_RENAME = "SCRIPT.DOC"
        AddSectionKeyFileToCopyList Files-Ras-Scp "scriptdoc" $(SourceDir) $
(ProductPath)
        set STF_RENAME = ""
    endif
endif
ifstr(i) $(!NTN_InstallMode) == "Update"
    set !STF_NCPA_FLUSH_COPYLIST = TRUE
    CopyFilesInCopyList
else-ifstr(i) $(DoCopy) == "YES"
    set !STF_NCPA_FLUSH_COPYLIST = TRUE
    CopyFilesInCopyList
endif
Debug-Output "Done Copying Files"
exit
[RemoveResources]
Debug-Output "In removing infs and dll"
set RemoveList = {}
set RenameList = {}
set RemoveList = >($(RemoveList), #(Files-RemoveList, MODEMINF, 1))
set RemoveList = >($(RemoveList), #(Files-RemoveList, PADINF, 1))
set RemoveList = >($(RemoveList), #(Files-RemoveList, SWITCHINF, 1))
set RemoveList = >($(RemoveList), #(Files-RemoveList, RASSETUPHLP, 1))
set RenameList = >($(RenameList), #(Files-RemoveList, RASRESDLL, 1))
set RenameList = >($(RenameList), #(Files-RemoveList, RASCFGDLL, 1))
set RenameList = >($(RenameList), #(Files-RemoveList, RASFIL32DLL, 1))
ForListDo $(RemoveList)
    Debug-Output "Removing "$($)"
    LibraryProcedure Status, $(!LIBHANDLE), DelFile $($)"
    Debug-Output "Status is "$($)"
EndForListDo
ForListDo $(RenameList)
    Split-String $($)"\" FilePath
    QueryListSize PathLen $(FilePath)
    Split-String *($$(FilePath),$(PathLen))"." FullFileName
    Set FileName = *($$(FullFileName),1)
    Debug-Output "FileName is "$($$(FileName))"
    LibraryProcedure STATUS, $(!LIBHANDLE), CheckFileExistance $(!
STF_WINDOWSSYSPATH)"\"$($$(FileName)).old"

```

```

    Debug-Output "CheckFile Status = "$(STATUS)
    ifstr(i) $(STATUS) == YES
        LibraryProcedure STATUS, $(!LIBHANDLE), DelFile $(!
STF_WINDOWSSYSPATH)"\"$(FileName)".old"
        Debug-Output "DelFile Status = "$(STATUS)
    endif
    Debug-Output "Renaming from "$($
    Debug-Output "Renaming to "$(!STF_WINDOWSSYSPATH)"\"$(FileName)".old"
    LibraryProcedure Status1 , $(!LIBHANDLE), RenFile $($), $(!
STF_WINDOWSSYSPATH)"\"$(FileName)".old"
    Debug-Output "Status is "$(Status1)
    AddFileToDeleteList $(!STF_WINDOWSSYSPATH)"\"$(FileName)".old"
EndForListDo
exit
[InstallRasFiles]
set STF_VITAL = NO
set STF_OVERWRITE = "VERIFYSOURCEOLDER"
Debug-Output "In InstallRasFiles Copying Files"
Debug-Output "ServerInstalled "$(ServerInstalled)
Debug-Output "ClientInstalled "$(ClientInstalled)
ifstr(i) $(DoAdmin) == TRUE
    AddSectionFilesToCopyList Files-Ras-Admin $(SourceDir) +
        $(!STF_WINDOWSSYSPATH)
    ifstr(i) $(DoAdminOnly) == TRUE
        goto InstallRasFiles1
    endif
endif
ifstr(i) $(DoClient) == TRUE
    AddSectionFilesToCopyList Files-Ras-Client $(SourceDir) +
        $(!STF_WINDOWSSYSPATH)
endif
ifstr(i) $(DoServer) == TRUE
    AddSectionFilesToCopyList Files-Ras-Server $(SourceDir) +
        $(!STF_WINDOWSSYSPATH)
endif
ifstr(i) $(!NTN_InstallMode) == "Update"
    AddSectionFilesToCopyList Files-Ras-Common $(SourceDir) +
        $(!STF_WINDOWSSYSPATH)
    AddSectionFilesToCopyList Files-Ras-Drivers $(SourceDir) +
        $(!STF_WINDOWSSYSPATH)\drivers
else
    ifstr(i) $(ServerInstalled) == FALSE
        ifstr(i) $(ClientInstalled) == FALSE
            AddSectionFilesToCopyList Files-Ras-Common $(SourceDir) +
                $(!STF_WINDOWSSYSPATH)
            AddSectionFilesToCopyList Files-Ras-Drivers $(SourceDir) +
                $(!STF_WINDOWSSYSPATH)\drivers
        endif
    endif
endif
InstallRasFiles1 = +
ifstr(i) $(!NTN_InstallMode) == "Update"
    set !STF_NCPA_FLUSH_COPYLIST = TRUE
    CopyFilesInCopyList
else
    ifstr(i) $(DoCopy) == "YES"
        set !STF_NCPA_FLUSH_COPYLIST = TRUE
        CopyFilesInCopyList
    endif
endif

```

```

endif
Debug-Output "Done Copying Files"
exit
[RemoveRasFiles]
ifstr(i) $(!NTN_InstallMode) == install
    ifstr(i) $(DoCopy) == "NO"
        Exit
    endif
endif
set RemoveList = {}
set RenameList = {}
set fCommonRemoved = FALSE
ifstr(i) $(DoServer) == TRUE
    set fCommonRemoved = TRUE
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASGTWYDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASGPRXYDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASSPRXYEXE, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASSRVEXE, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASCTRSDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASCTRSINI, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASCTRNMH, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASSAUTHDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASADMINDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASMANDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASMANEXE, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASMSGDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASMXSDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASSERDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASIPXCPDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASPPPDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASPPPENDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASPAPDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASCHAPDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASSPAPDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASIPCPDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASIPHLPDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASNBFCPDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASCCPDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASCBCPDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASNBIPCDLL, 1))
    set RenameList = >$(RenameList), #(Files-RemoveList, ASYNCMACSYS, 1))
    set RenameList = >$(RenameList), #(Files-RemoveList, NDISWANSYS, 1))
endif
ifstr(i) $(DoClient) == TRUE
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASDIALEXE, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASPHONEHLP, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASCAUTHDLL, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASAPI32DLL, 1))
    ifstr(i) $(fCommonRemoved) == FALSE
        set RemoveList = >$(RemoveList), #(Files-RemoveList, RASMANDLL, 1))
        set RemoveList = >$(RemoveList), #(Files-RemoveList, RASMANEXE, 1))
        set RemoveList = >$(RemoveList), #(Files-RemoveList, RASMSGDLL, 1))
        set RemoveList = >$(RemoveList), #(Files-RemoveList, RASMXSDLL, 1))
        set RemoveList = >$(RemoveList), #(Files-RemoveList, RASSERDLL, 1))
        set RemoveList = >$(RemoveList), #(Files-RemoveList, RASIPXCPDLL, 1))
        set RemoveList = >$(RemoveList), #(Files-RemoveList, RASPPPDLL, 1))
        set RemoveList = >$(RemoveList), #(Files-RemoveList, RASPPPENDLL, 1))
        set RemoveList = >$(RemoveList), #(Files-RemoveList, RASPAPDLL, 1))
        set RemoveList = >$(RemoveList), #(Files-RemoveList, RASCHAPDLL, 1))

```

```

        set RemoveList = >$(RemoveList), #(Files-RemoveList, RASSPAPDLL, 1))
        set RemoveList = >$(RemoveList), #(Files-RemoveList, RASIPCPDLL, 1))
        set RemoveList = >$(RemoveList), #(Files-RemoveList, RASIPHPDLL, 1))
        set RemoveList = >$(RemoveList), #(Files-RemoveList, RASNBFCPDLL, 1))
        set RemoveList = >$(RemoveList), #(Files-RemoveList, RASCCPDLL, 1))
        set RemoveList = >$(RemoveList), #(Files-RemoveList, RASCBPCDLL, 1))
        set RemoveList = >$(RemoveList), #(Files-RemoveList, RASNBIPCDLL, 1))
        set RenameList = >$(RenameList), #(Files-RemoveList, ASYNCMACSYS, 1))
        set RenameList = >$(RenameList), #(Files-RemoveList, NDISWANSYS, 1))
    endif
endif
ifstr(i) $(DoAdmin) == TRUE
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASADMINHLP, 1))
    set RemoveList = >$(RemoveList), #(Files-RemoveList, RASGLOSSHLP, 1))
endif
ForListDo $(RemoveList)
    Debug-Output "Removing "$($)"
    LibraryProcedure Status , $(!LIBHANDLE), DelFile $($)"
    Debug-Output "Status is "$(Status)"
EndForListDo
ForListDo $(RenameList)
    Split-String $($)"\" FilePath
    QueryListSize PathLen $(FilePath)"
    Split-String *($$(FilePath),$(PathLen)) "." FullFileName
    Set FileName = *($$(FullFileName),1)"
    Debug-Output "FileName is "$(FileName)"
    LibraryProcedure STATUS, $(!LIBHANDLE),CheckFileExistance $(!
STF_WINDOWSSYSPATH)"\DRIVERS\"$(FileName)".old"
    Debug-Output "CheckFile Status = "$(STATUS)"
    ifstr(i) $(STATUS) == YES
        LibraryProcedure STATUS, $(!LIBHANDLE), DelFile $(!
STF_WINDOWSSYSPATH)"\DRIVERS\"$(FileName)".old"
        Debug-Output "Delfile Status = "$(STATUS)"
    endif
    Debug-Output "Renaming from "$($)"
    Debug-Output "Renaming to "$(!STF_WINDOWSSYSPATH)"\DRIVERS\"$
(FileName)".old"
    LibraryProcedure Status1 , $(!LIBHANDLE), RenFile $($), $(!
STF_WINDOWSSYSPATH)"\DRIVERS\"$(FileName)".old"
    Debug-Output "Status is "$(Status1)"
    AddFileToDeleteList $(!STF_WINDOWSSYSPATH)"\DRIVERS\"$(FileName)".old"
EndForListDo
exit
[RemoveRasGroup]
    Debug-Output "Removing icons from "$(RasGroup)"
    CreateCommonProgManGroup $(RasGroup) ""
    RemoveCommonProgManGroup $(RasGroup)"
    exit
[AddNDISWANToServiceGroupOrder]
    set GroupOrderName = "SYSTEM\CurrentControlSet\Control\ServiceGroupOrder"
    OpenRegKey $(!REG_H_LOCAL) "" $(GroupOrderName) $(!MAXIMUM_ALLOWED) KeyGroup
    set OldList = {}
    Ifstr(i) $(KeyGroup) != $(KeyNull)"
        GetRegValue $(KeyGroup) "List" TmpList
        ifint $(RegLastError) == 0
            ForListDo *($$(TmpList), 4)"
                set OldList = >($$(OldList), $($)"
            EndForListDo
        endif
    endif

```

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Debug-Output "AddNDISWANToServiceGroupOrder current list "$(OldList)
Ifcontains(i) "NDISWAN" not-in $(OldList)
    set NewGroupList = {}
    ForListDo $(OldList)
        set NewGroupList = >($(NewGroupList), $($))
        ifstr(i) $($) == "NDIS"
            set NewGroupList = >($(NewGroupList), "NDISWAN" )
        endif
    EndForListDo
    Debug-Output "AddNDISWANToServiceGroupOrder new list "$(NewGroupList)
    SetRegValue $(KeyGroup) {List, 0,$(!REG_VT_MULTI_SZ),$NewGroupList}
endif
CloseRegKey $(KeyGroup)
else
    Debug-Output "AddNDISWANToServiceGroupOrder error opening ServiceGroupOrder
key."
endif
return
[CheckRasInstalled]
set MAXIMUM_ALLOWED = 33554432
set ProductKeyName = $(!NTN_SoftwareBase)"\Microsoft\RAS\CurrentVersion"
OpenRegKey $(!REG_H_LOCAL) "" $(ProductKeyName) $(MAXIMUM_ALLOWED) KeyProduct
Ifstr $(KeyProduct) != ""
    CloseRegKey $(KeyProduct)
    return "TRUE"
else
    return "FALSE"
[QueryComponentsInstalled]
Set Status = STATUS_FAILED
Set ValueName = ""
Set InstalledList = {}
Set InstalledFlags = {}
Set TmpList = {}
Set KeyNull = ""
Set NumberOfComps = 0
Set RasKeyName = $($0)
Debug-Output "QueryComponentsInstalled: "$(RasKeyName)
OpenRegKey $(!REG_H_LOCAL) "" $(RasKeyName) $(!MAXIMUM_ALLOWED) KeyProduct
Ifstr(i) $(KeyProduct) != $(KeyNull)
    GetRegValue $(KeyProduct) "RasComponents" TmpList
    Debug-Output "QueryComponentsInstalled: "$(TmpList)
    ForListDo *($TmpList),4)
        set InstalledList = >($(InstalledList), $($))
    EndForListDo
    CloseRegKey $(KeyProduct)
    Ifcontains(i) "Server" in $(InstalledList)
        Set InstalledFlags = >($(InstalledFlags), TRUE)
    else
        Set InstalledFlags = >($(InstalledFlags), FALSE)
    endif
    Ifcontains(i) "Client" in $(InstalledList)
        Set InstalledFlags = >($(InstalledFlags), TRUE)
    else
        Set InstalledFlags = >($(InstalledFlags), FALSE)
    endif
    Ifcontains(i) "Admin" in $(InstalledList)
        Set InstalledFlags = >($(InstalledFlags), TRUE)
    else
        Set InstalledFlags = >($(InstalledFlags), FALSE)

```

```

endif
QueryListSize NumberOfComps $(InstalledList)
ifint $(NumberOfComps) == 1
    Ifcontains(i) "Server" in $(InstalledList)
        Set InstalledFlags = >$(InstalledFlags), TRUE)
    else
        Set InstalledFlags = >$(InstalledFlags), FALSE)
    endif
    Ifcontains(i) "Client" in $(InstalledList)
        Set InstalledFlags = >$(InstalledFlags), TRUE)
    else
        Set InstalledFlags = >$(InstalledFlags), FALSE)
    endif
    Ifcontains(i) "Admin" in $(InstalledList)
        Set InstalledFlags = >$(InstalledFlags), TRUE)
    else
        Set InstalledFlags = >$(InstalledFlags), FALSE)
    endif
else
    Set InstalledFlags = >$(InstalledFlags), FALSE)
    Set InstalledFlags = >$(InstalledFlags), FALSE)
    Set InstalledFlags = >$(InstalledFlags), FALSE)
endif
Set Status = STATUS_SUCCESSFUL
Else
    Set Status = STATUS_NOT_FOUND
EndIf
Debug-Output "QueryComponentsInstalled: "$(InstalledList)
Return $(Status) $(InstalledList) $(InstalledFlags)
[UpdateComponentsInstalled]
Set Status = STATUS_FAILED
Set InstalledList = $($0)
Set RasKeyName = $($1)
Set KeyNull = ""
Debug-Output "UpdateComponentsInstalled: "$(RasKeyName)
OpenRegKey $(!REG_H_LOCAL) "" $(RasKeyName) $(!MAXIMUM_ALLOWED) KeyProduct
Ifstr(i) $(KeyProduct) != $(KeyNull)
    SetRegValue $(KeyProduct) {RasComponents, 0,$(!REG_VT_MULTI_SZ),$
(InstalledList)}
    CloseRegKey $(KeyProduct)
    Set Status = STATUS_SUCCESSFUL
else
    Set Status = STATUS_FAILED
endif
return $(Status)
[GetNetworkAccess]
set Status = STATUS_SUCCESSFUL
Set KeyNull = ""
set NbfNetAccess = 0
set TcpIpNetAccess = 0
set IpxNetAccess = 0
set RasProtocolsKeyName = $(!NTN_SoftwareBase)"\Microsoft\RAS\PROTOCOLS"
Debug-Output "GetNetworkAccess entry"
set ProtocolKeyName = $(RasProtocolsKeyName)"\NBF"
OpenRegKey $(!REG_H_LOCAL) "" $(ProtocolKeyName) $(!MAXIMUM_ALLOWED)
KeyProtocol
Ifstr(i) $(KeyProtocol) != $(KeyNull)
    GetRegValue $(KeyProtocol), "NetBiosGatewayEnabled" NetworkAccess
    ifint $(RegLastError) == 0

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        set NbfNetAccess = *$(NetworkAccess), 4)
    endif
    CloseRegKey $(KeyProtocol)
else
    Debug-Output "GetNetworkAccess:error opening key "$(ProtocolKeyName)
endif
set ProtocolKeyName = $(RasProtocolsKeyName)"\IP"
OpenRegKey $(!REG_H_LOCAL) "" $(ProtocolKeyName) $(!MAXIMUM_ALLOWED)
KeyProtocol
Ifstr(i) $(KeyProtocol) != $(KeyNull)
    GetRegValue $(KeyProtocol), "AllowNetworkAccess" NetworkAccess
    ifint $(RegLastError) == 0
        set TcpIpNetAccess = *$(NetworkAccess), 4)
    endif
    CloseRegKey $(KeyProtocol)
else
    Debug-Output "GetNetworkAccess:error opening key "$(ProtocolKeyName)
endif
set ProtocolKeyName = $(RasProtocolsKeyName)"\IPX"
OpenRegKey $(!REG_H_LOCAL) "" $(ProtocolKeyName) $(!MAXIMUM_ALLOWED)
KeyProtocol
Ifstr(i) $(KeyProtocol) != $(KeyNull)
    GetRegValue $(KeyProtocol), "AllowNetworkAccess" NetworkAccess
    ifint $(RegLastError) == 0
        set IpxNetAccess = *$(NetworkAccess), 4)
    endif
    CloseRegKey $(KeyProtocol)
else
    Debug-Output "GetNetworkAccess:error opening key "$(ProtocolKeyName)
endif
Debug-Output "GetNetworkAccess exit"
return $(Status) $(NbfNetAccess) $(TcpIpNetAccess) $(IpxNetAccess)
[IsNdisWanBHAdapterInstalled]
set Status = STATUS_FAILED
Set KeyNull = ""
Debug-Output "IsNdisWanBHAdapterInstalled entry"
set NetworkCardKey = $(KeyNull)
OpenRegKey $(!REG_H_LOCAL) "" $(!NetworkCardKeyName) $(!MAXIMUM_ALLOWED)
NetworkCardKey
Ifstr(i) $(NetworkCardKey) != $(KeyNull)
    set NetcardsList = {}
    EnumRegKey $(NetworkCardKey) NetcardsList
    Ifint $(RegLastError) != $(!REG_ERROR_SUCCESS)
        Debug-Output "IsNdisWanBHAdapterInstalled: EnumRegKey failed."
        goto IsNdisWanBHAdapterInstalledEnd
    endif
    ForListDo $(NetcardsList)
        set KeyName = *$(($),1)
        set Card = $(KeyNull)
        OpenRegKey $(NetworkCardKey) "" $(KeyName) $(!MAXIMUM_ALLOWED) Card
        ifstr $(Card) == $(KeyNull)
            Debug-Output "IsNdisWanBHAdapterInstalled: could not open netcard
key "$(KeyName)
        else
            GetRegValue $(Card), "ProductName" ProductNameInfo
            Ifint $(RegLastError) != $(!REG_ERROR_SUCCESS)
                Debug-Output "IsNdisWanBHAdapterInstalled: ProductName not
found."
            else

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        set CardProductName = *$(ProductNameInfo), 4)
        Debug-Output "IsNdisWanBHAdapterInstalled: ProductName. "$
(CardProductName)
        ifstr(i) $(CardProductName) == $(!ProductNDISWANName)
        set Status = STATUS_SUCCESSFUL
        CloseRegKey $(Card)
        goto IsNdisWanBHAdapterInstalledEnd
    endif
endif
CloseRegKey $(Card)
endif
EndForListDo
else
    Debug-Output "IsNdisWanBHAdapterInstalled: failed to open "$(!
NetworkCardKeyName)
endif
IsNdisWanBHAdapterInstalledEnd +=
ifstr(i) $(NetworkCardKey) != $(KeyNull)
    CloseRegKey $(NetworkCardKey)
endif
Debug-Output "IsNdisWanBHAdapterInstalled exit"
Return $(Status)
[InstallNdisWanBHAdapter]
set Status = STATUS_FAILED
set ThisOption = NDISWAN
Debug-Output "InstallNdisWanBHAdapter entry"
Shell "utility.inf", AddHardwareComponent, +
    $(!Product$(ThisOption)Name),$(!RasInfName),+
    $(!Product$(ThisOption)KeyName)
ifint $(R4) != -1
    Set !NETCARD_LIST = >$(!NETCARD_LIST), +
        {$(!Product$(ThisOption)Name),+
        $(!NetworkCardKeyName)"\"$(R4)}
endif
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "InstallNdisWanBHAdapter:Shell error"
    goto InstallNdisWanBHAdapterEnd
endif
set RegistryErrorIndex = $(R0)
Ifstr(i) $(RegistryErrorIndex) != NO_ERROR
    Debug-Output "InstallNdisWanBHAdapter:Registry error: add hardware
component"
    CloseRegKey $(R1)
    CloseRegKey $(R2)
    CloseRegKey $(R3)
    goto InstallNdisWanBHAdapterEnd
endif
set KeyNetcard = $(R1)
set KeyParameters = $(R3)
set KeyAdapterRules = $(R2)
set AdapterNumber = $(R4)
set NewValueList = +
    {{Manufacturer,$(NoTitle),$(!REG_VT_SZ),$(!Manufacturer)},+
    {Title,$(NoTitle),$(!REG_VT_SZ),+
    "["$(R4)""] "$(!Product$(ThisOption)Title)},+
    {Description,$(NoTitle),$(!REG_VT_SZ),+
    $(!Product$(ThisOption)Description)},+
    {ProductName,$(NoTitle),$(!REG_VT_SZ),+
    $(!Product$(ThisOption)Name)},+

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        {ServiceName,$(NoTitle),$(!REG_VT_SZ),$(R5)},+
        {InstallDate,$(NoTitle),$(!REG_VT_DWORD),*$(!CurrentDate),1}},+
        {Hidden,$(NoTitle),$(!REG_VT_DWORD),1}}
Shell "utility.inf", AddValueList, $(KeyNetcard), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "InstallNdisWanBHAdapter: ShellCode error"
    goto InstallNdisWanBHAdapterEnd
endif
CloseRegKey $(KeyNetcard)
set TempProdName = """"$(!Product$(ThisOption)Name$(AdapterNumber)""""
set TempBindForm = $(TempProdName)$(!NetRuleHardwareBHBBindForm)
set NewValueList = +
    {{type,$(NoTitle),$(!REG_VT_SZ),+
        $(!NetRuleHardwareBHType)},+
    {bindform,$(NoTitle),$(!REG_VT_SZ),$(TempBindForm)}, +
    {class,$(NoTitle),$(!REG_VT_MULTI_SZ),+
        $(!NetRuleHardwareBHClass)}, +
    {InfOption,$(NoTitle),$(!REG_VT_SZ),$(ThisOption)}, +
    {Infname ,$(NoTitle),$(!REG_VT_SZ),$(!RasInfName)}}}
Shell "utility.inf", AddValueList, $(KeyAdapterRules), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "InstallNdisWanBHAdapter: ShellCode error"
    goto InstallNdisWanBHAdapterEnd
endif
set RegistryErrorIndex = $(R0)
Ifstr(i) $(RegistryErrorIndex) != NO_ERROR
    Debug-Output "InstallNdisWanBHAdapter:Registry error: add hardware
component"
    CloseRegKey $(KeyParameters)
    CloseRegKey $(KeyAdapterRules)
    goto InstallNdisWanBHAdapterEnd
endif
CloseRegKey $(KeyAdapterRules)
CloseRegKey $(KeyParameters)
set Status = STATUS_SUCCESSFUL
InstallNdisWanBHAdapterEnd +=
    Debug-Output "InstallNdisWanBHAdapter exit"
    return $(Status)
[InstallRasArpService]
set Status = STATUS_SUCCESSFUL
set KeyNull = ""
Debug-Output "InstallRasArpService entry"
OpenRegKey $(!REG_H_LOCAL) "" $(!RasArpKeyName) $(!MAXIMUM_ALLOWED) KeyService
Ifstr(i) $(KeyService) == $(KeyNull)
    Shell "utility.inf", CreateService, $(!ProductRASARPName), +
        $(!ProductRASARPDDisplayName), +
        $(!ProductRASARPImagePath), +
        "kernelautostart", "PNP_TDI", {"TCPIP"}, ""
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "OEMNSVRA.INF: InstallRasArpService : ShellCode error"
        return STATUS_FAILED
    endif
set RegistryErrorIndex = $(R0)
CloseRegKey $(R1)
CloseRegKey $(R2)
CloseRegKey $(R3)
Ifstr(i) $(RegistryErrorIndex) == SERVICE_ALREADY_EXISTS
    return $(Status)
EndIf

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        Ifstr(i) $(RegistryErrorIndex) != NO_ERROR
            Debug-Output "OEMNSVRA.INF: InstallRasArpService: Registry error create
service"
                return STATUS_FAILED
            endif
        endif
    Ifstr(i) $(KeyService) != $(KeyNull)
        CloseRegKey $(KeyService)
    endif
    Debug-Output "InstallRasArpService exit"
    return $(Status)
[RemoveRasArpService]
    set Status = STATUS_SUCCESSFUL
    set KeyNull = ""
    Debug-Output "RemoveRasArpService entry"
    OpenRegKey $(!REG_H_LOCAL) "" $(!RasArpKeyName) $(!MAXIMUM_ALLOWED) KeyService
    Ifstr(i) $(KeyService) != $(KeyNull)
        Shell "utility.inf", RemoveService $(!ProductRASARPName) "YES"
        ifint $($ShellCode) != $(!SHELL_CODE_OK)
            Debug-Output "OEMNSVRA.INF: RemoveRasArpService : ShellCode error"
            return STATUS_FAILED
        endif
        set RegistryErrorIndex = $($R0)
        Ifstr(i) $(RegistryErrorIndex) != NO_ERROR
            Debug-Output "OEMNSVRA.INF: RemoveRasArpService: Registry error: "
            return STATUS_FAILED
        endif
        CloseRegKey $(KeyService)
    endif
    Debug-Output "RemoveRasArpService exit"
    return $(Status)
[InstallRasAcidService]
    set Status = STATUS_SUCCESSFUL
    set KeyNull = ""
    Debug-Output "InstallRasAcidService entry"
    OpenRegKey $(!REG_H_LOCAL) "" $(!RasAcidKeyName) $(!MAXIMUM_ALLOWED) KeyService
    Ifstr(i) $(KeyService) == $(KeyNull)
        Shell "utility.inf", CreateService, $(!ProductRASACDName), +
            $(!ProductRASACDDisplayName), +
            $(!ProductRASACDImagePath), +
            "kernelautostart", "Streams Drivers", {}, ""
        ifint $($ShellCode) != $(!SHELL_CODE_OK)
            Debug-Output "OEMNSVRA.INF: InstallRasArpService : ShellCode error"
            return STATUS_FAILED
        endif
        set RegistryErrorIndex = $($R0)
        CloseRegKey $($R1)
        CloseRegKey $($R2)
        CloseRegKey $($R3)
        Ifstr(i) $(RegistryErrorIndex) == SERVICE_ALREADY_EXISTS
            return $(Status)
        EndIf
        Ifstr(i) $(RegistryErrorIndex) != NO_ERROR
            Debug-Output "OEMNSVRA.INF: InstallRasAcidService: Registry error create
service"
                return STATUS_FAILED
            endif
        endif
    Debug-Output "InstallRasArpService exit"

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```

return $(Status)
[RemoveRasAcidService]
set Status = STATUS_SUCCESSFUL
set KeyNull = ""
Debug-Output "RemoveRasAcidService entry"
OpenRegKey $(!REG_H_LOCAL) "" $(!RasAcidKeyName) $(!MAXIMUM_ALLOWED) KeyService
Ifstr(i) $(KeyService) != $(KeyNull)
    Shell "utility.inf", RemoveService $(!ProductRASACDName) "YES"
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "OEMNSVRA.INF: RemoveRasAcidService : ShellCode error"
        return STATUS_FAILED
    endif
    set RegistryErrorIndex = $($R0)
    Ifstr(i) $(RegistryErrorIndex) != NO_ERROR
        Debug-Output "OEMNSVRA.INF: RemoveRasAcidService: Registry error: "
        return STATUS_FAILED
    endif
    CloseRegKey $(KeyService)
endif
Debug-Output "RemoveRasAcidService exit"
return $(Status)
[InstallNdisTapiService]
set Status = STATUS_SUCCESSFUL
set KeyNull = ""
Debug-Output "InstallNdisTapiService entry"
OpenRegKey $(!REG_H_LOCAL) "" $(!NdisTapiKeyName) $(!MAXIMUM_ALLOWED)
KeyService
Ifstr(i) $(KeyService) == $(KeyNull)
    Shell "utility.inf", CreateService, $(!ProductNDISTAPIName), +
        $(!ProductNDISTAPIDisplayName), +
        $(!ProductNDISTAPIImagePath), +
        "kernelauto", "NDIS", {}, ""
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "OEMNSVRA.INF: InstallNdisTapiService : ShellCode error"
        return STATUS_FAILED
    endif
    set RegistryErrorIndex = $($R0)
    set ParamKey = $($R2)
    CloseRegKey $($R1)
    CloseRegKey $($R3)
    Ifstr(i) $(RegistryErrorIndex) == SERVICE_ALREADY_EXISTS
        return $(Status)
    EndIf
    Ifstr(i) $(RegistryErrorIndex) != NO_ERROR
        Debug-Output "OEMNSVRA.INF: InstallNdisTapiService: Registry error
create service"
        return STATUS_FAILED
    endif
    ifstr(i) $(!STF_PRODUCT) != "WINNT"
        SetRegValue $(ParamKey) {AsyncEventQueueSize, 0, $(!REG_VT_DWORD),
3072}
    else
        SetRegValue $(ParamKey) {AsyncEventQueueSize, 0, $(!REG_VT_DWORD), 768}
    endif
    CloseRegKey $(ParamKey)
endif
Ifstr(i) $(KeyService) != $(KeyNull)
    CloseRegKey $(KeyService)
endif

```

```

    Debug-Output "InstallNdisTapiService exit"
    return $(Status)
[RemoveNdisTapiService]
    set Status = STATUS_SUCCESSFUL
    set KeyNull = ""
    Debug-Output "RemoveNdisTapiService entry"
    OpenRegKey $(!REG_H_LOCAL) "" $(!NdisTapiKeyName) $(!MAXIMUM_ALLOWED)
KeyService
    Ifstr(i) $(KeyService) != $(KeyNull)
        Shell "utility.inf", RemoveService $(!ProductNDISTAPIName) "YES"
        ifint $($ShellCode) != $(!SHELL_CODE_OK)
            Debug-Output "OEMNSVRA.INF: RemoveNdisTapiService : ShellCode error"
            return STATUS_FAILED
        endif
        set RegistryErrorIndex = $($R0)
        Ifstr(i) $(RegistryErrorIndex) != NO_ERROR
            Debug-Output "OEMNSVRA.INF: RemoveNdisTapiService: Registry error: "
            return STATUS_FAILED
        endif
        CloseRegKey $(KeyService)
    endif
    Debug-Output "RemoveNdisTapiService exit"
    return $(Status)
[InstallNwlnkRipService]
    Debug-Output "InstallNwlnkRipService entry"
    set Status = STATUS_FAILED
    set KeyNull = ""
    Set SrcDir = $(!STF_SRCDIR)
    ifstr(i) $(!NTN_InstallMode) == "install"
        set !STF_SRCDIR_OVERRIDE = $(SrcDir)
    endif
    set AddCopy = YES
    set DoCopy = YES
    set DoConfig = YES
    set SaveNTN_InstallMode = $(!NTN_InstallMode)
    set !NTN_InstallMode = install
    Shell "oemnsvrr.inf" InstallOption $(!STF_LANGUAGE) "NWLNK RIP" +
        $(SrcDir) $(AddCopy) $(DoCopy) $(DoConfig) "RAS"
    set !NTN_InstallMode = $(SaveNTN_InstallMode)
    Ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "Error installing NWLNKRIP service"
        Goto InstallNwlnkRipServiceEnd
    Endif
    Set InstallStatus = $($R0)
    Ifstr(i) $(InstallStatus) != STATUS_SUCCESSFUL
        Ifstr(i) $(InstallStatus) != STATUS_USERCANCEL
            Debug-Output "InstallNwlnkRipService returned "$(InstallStatus)
            Goto InstallNwlnkRipServiceEnd
        Endif
    Endif
    OpenRegKey $(!REG_H_LOCAL) "" $(!RasIsnRipKeyName) $(!MAXIMUM_ALLOWED)
KeyService
    ifstr $(KeyService) != ""
        OpenRegKey $(KeyService) "" "Parameters" $(!MAXIMUM_ALLOWED) KeyParams
        ifstr(i) $(KeyParams) != ""
            GetRegValue $(KeyParams), "NetbiosRouting", NetbiosRoutingInfo
            Ifint $(RegLastError) == $(!REG_ERROR_SUCCESS)
                set NetbiosRouting = *$(NetbiosRoutingInfo), 4)
            else

```

```

        set NetbiosRouting = 2
    endif
    ifint $(NetbiosRouting) == 0
        set NetbiosRouting = 2
    else-ifint $(NetbiosRouting) == 1
        set NetbiosRouting = 3
    endif
    SetRegValue $(KeyParams) {NetbiosRouting, $(NoTitle), $(!REG_VT_DWORD),
$(NetbiosRouting)}
    CloseRegKey $(KeyParams)
    endif
    CloseRegKey $(KeyService)
    endif
    Shell "" AddServiceDependency "RemoteAccess" $(!ProductRASISNRIPName)
    ifstr(i) $($R0) == STATUS_FAILED
        Debug-Output "InstallNwlnkRipService: error adding service dependency"
    endif
    set Status = STATUS_SUCCESSFUL
InstallNwlnkRipServiceEnd =+
    Debug-Output "InstallNwlnkRipService exit"
    return $(Status)
[RemoveNwlnkRipService]
    Debug-Output "RemoveNwlnkRipService entry"
    set Status = STATUS_FAILED
    set KeyNull = ""
    Set SrcDir = $(!STF_SRCDIR)
    set AddCopy = YES
    set DoCopy = YES
    set DoConfig = YES
    set SaveNTN_InstallMode = $(!NTN_InstallMode)
    set !NTN_InstallMode = deinstall
    Shell "oemsvrr.inf" InstallOption $(!STF_LANGUAGE) "NWLNRIP" +
        $(SrcDir) $(AddCopy) $(DoCopy) $(DoConfig) "RAS"
    set !NTN_InstallMode = $(SaveNTN_InstallMode)
    Ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "Error removing NWLNKRIP service"
        Goto RemoveNwlnkRipServiceEnd
    Endif
    Set RemoveStatus = $($R0)
    Ifstr(i) $(RemoveStatus) != STATUS_SUCCESSFUL
        Ifstr(i) $(RemoveStatus) != STATUS_USERCANCEL
            Debug-Output "RemoveNwlnkRipService returned "$(RemoveStatus)
            Goto RemoveNwlnkRipServiceEnd
        Endif
    Endif
    Shell "" RemoveServiceDependency "RemoteAccess" $(!ProductRASISNRIPName)
    ifstr(i) $($R0) == STATUS_FAILED
        Debug-Output "RemoveNwlnkRipService: error removing service dependency"
    endif
    set Status = STATUS_SUCCESSFUL
RemoveNwlnkRipServiceEnd =+
    Debug-Output "RemoveNwlnkRipService exit"
    return $(Status)
[InstallIsnSapService]
    Debug-Output "InstallIsnSapService entry"
    set Status = STATUS_FAILED
    set KeyNull = ""
    Set SrcDir = $(!STF_SRCDIR)
    ifstr(i) $(!NTN_InstallMode) == "install"

```

```

        set !STF_SRCDIR_OVERRIDE = $(SrcDir)
    endif
    set AddCopy = YES
    set DoCopy = YES
    set DoConfig = YES
    set SaveNTN_InstallMode = $(!NTN_InstallMode)
    set !NTN_InstallMode = install
    Shell "oemnsvsa.inf" InstallOption $(!STF_LANGUAGE) "SAP" +
        $(SrcDir) $(AddCopy) $(DoCopy) $(DoConfig) "RAS"
    set !NTN_InstallMode = $(SaveNTN_InstallMode)
    Ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "Error installing SAP agent"
        Goto InstallIsnSapServiceEnd
    Endif
    Set InstallStatus = $($R0)
    Ifstr(i) $(InstallStatus) != STATUS_SUCCESSFUL
        Ifstr(i) $(InstallStatus) != STATUS_USERCANCEL
            Debug-Output "InstallSapService returned "$(InstallStatus)
            Goto InstallIsnSapServiceEnd
        Endif
    Endif
    Shell "" AddServiceDependency "RemoteAccess" $(!ProductRASISNSAPName)
    ifstr(i) $($R0) == STATUS_FAILED
        Debug-Output "InstallIsnSapService: error adding service dependency"
    endif
    set Status = STATUS_SUCCESSFUL
InstallIsnSapServiceEnd =+
    Debug-Output "InstallIsnSapService exit"
    return $(Status)
[RemoveIsnSapService]
    Debug-Output "RemoveIsnSapService entry"
    set Status = STATUS_FAILED
    set KeyNull = ""
    Set SrcDir = $(!STF_SRCDIR)
    set AddCopy = YES
    set DoCopy = YES
    set DoConfig = YES
    set SaveNTN_InstallMode = $(!NTN_InstallMode)
    set !NTN_InstallMode = deinstall
    Shell "oemnsvsa.inf" InstallOption $(!STF_LANGUAGE) "SAP" +
        $(SrcDir) $(AddCopy) $(DoCopy) $(DoConfig) "RAS"
    set !NTN_InstallMode = $(SaveNTN_InstallMode)
    Ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "Error removing SAP agent"
        Goto RemoveIsnSapServiceEnd
    Endif
    Set RemoveStatus = $($R0)
    Ifstr(i) $(RemoveStatus) != STATUS_SUCCESSFUL
        Ifstr(i) $(RemoveStatus) != STATUS_USERCANCEL
            Debug-Output "RemoveIsnSapService returned "$(RemoveStatus)
            Goto RemoveIsnSapServiceEnd
        Endif
    Endif
    Shell "" RemoveServiceDependency "RemoteAccess" $(!ProductRASISNSAPName)
    ifstr(i) $($R0) == STATUS_FAILED
        Debug-Output "RemoveIsnSapService: error removing service dependency"
    endif
    set Status = STATUS_SUCCESSFUL
RemoveIsnSapServiceEnd =+

```

```

Debug-Output "RemoveIsnSapService exit"
return $(Status)
[WritePPPPParameters]
Debug-Output "WritePPPPParameters: entry"
Set Status = STATUS_FAILED
set KeyNull = ""
set RasManKeyName = $(!NTN_ServiceBase)\RasMan"
set RasManPPPKeyName = $(!NTN_ServiceBase)\RasMan\PPP"
set RasProtocolsKeyName = $(!NTN_SoftwareBase)\Microsoft\RAS\PROTOCOLS"
OpenRegKey $(!REG_H_LOCAL) "" $(RasManKeyName) $(!MAXIMUM_ALLOWED) KeyRasMan
ifstr $(KeyRasMan) != $(KeyNull)
    OpenRegKey $(KeyRasMan) "" "PPP" $(!MAXIMUM_ALLOWED) KeyRasManPPP
    set NewValueList = {}
    ifstr $(KeyRasManPPP) != $(KeyNull)
        EnumRegValue $(KeyRasManPPP) NewValueList
    else
        CreateRegKey $(KeyRasMan) +
            {"PPP",0,GenericClass} "" $(!MAXIMUM_ALLOWED) "" KeyRasManPPP
        CloseRegKey $(KeyRasMan)
        ifstr $(KeyRasManPPP) == $(KeyNull)
            Debug-Output "WritePPPPParameters: error creating RasMan\ppp key"
            goto WritePPPPParametersEnd
        endif
    endif
endif
else
    Debug-Output "WritePPPPParameters: error opening RasMan key"
    goto UpdateCPLListEnd
endif
ifstr(i) $(NewValueList) == {}
    set NewValueList = {{MaxConfigure, 0, $(!REG_VT_DWORD), 10}, +
        {MaxTerminate, 0, $(!REG_VT_DWORD), 2}, +
        {MaxFailure, 0, $(!REG_VT_DWORD), 10}. +
        {MaxReject, 0, $(!REG_VT_DWORD), 5}. +
        {NegotiateTime, 0, $(!REG_VT_DWORD), 150}, +
        {Logging, 0, $(!REG_VT_DWORD), 0}, +
        {RestartTimer, 0, $(!REG_VT_DWORD), 3}}
endif
forlistdo $(NewValueList)
    SetRegValue $(KeyRasManPPP) $($ )
endforlistdo
set ForceEncryptedPassword = 2
set ForceEncryptedData = 0
OpenRegKey $(!REG_H_LOCAL) "" $(RasProtocolsKeyName) $(!MAXIMUM_ALLOWED)
KeyRasProtocols
ifstr $(KeyRasProtocols) != $(KeyNull)
    GetRegValue $(KeyRasProtocols) "ForceEncryptedPassword" ForceValue
    ifint $(RegLastError) == 0
        set ForceEncryptedPassword = *$(ForceValue), 4)
    endif
    GetRegValue $(KeyRasProtocols) "ForceEncryptedData" ForceValue
    ifint $(RegLastError) == 0
        set ForceEncryptedData = *$(ForceValue), 4)
    endif
    SetRegValue $(KeyRasManPPP) {ForceEncryptedPassword, 0, +
        $(!REG_VT_DWORD),$(ForceEncryptedPassword)}
    SetRegValue $(KeyRasManPPP) {ForceEncryptedData, 0, +
        $(!REG_VT_DWORD),$(ForceEncryptedData)}
    CloseRegKey $(KeyRasProtocols)
endif
endif

```



```

CloseRegKey $(KeyRasManPPP)
set Status = STATUS_SUCCESSFUL
WritePPPParametersEnd =+
  Debug-Output "WritePPPParameters: exit"
  return $(Status)
[UpdateCPList]
  Debug-Output "UpdateCPList: entry"
  Set Status = STATUS_FAILED
  set KeyNull = ""
  set RasManPPPKeyName = $(!NTN_ServiceBase)"\RasMan\PPP"
  Shell "" WritePPPParameters
  Shell "" QuerySelectedProtocols
  ifstr(i) $($R0) == STATUS_SUCCESSFUL
    set fNetbeuiSelected = $($R1)
    set fTcpIpSelected = $($R2)
    set fIpxSelected = $($R3)
    set fNetbeuiAllowed = $($R4)
    set fTcpIpAllowed = $($R5)
    set fIpxAllowed = $($R6)
  else
    Debug-Output "UpdateCPList: error QuerySelectedProtocols"
    goto UpdateCPListEnd
  endif
  OpenRegKey $(!REG_H_LOCAL) "" $(RasManPPPKeyName) $(!MAXIMUM_ALLOWED)
KeyRasManPPP
  ifstr $(KeyRasManPPP) != $(KeyNull)
    EnumRegKey $(KeyRasManPPP) OldCPList
    ifstr(i) $(fNetbeuiSelected) == TRUE
      set fNetbeuiChosen = TRUE
    else
      set fNetbeuiChosen = $(fNetbeuiAllowed)
    endif
    ifstr(i) $(fTcpIpSelected) == TRUE
      set fTcpIpChosen = TRUE
    else
      set fTcpIpChosen = $(fTcpIpAllowed)
    endif
    ifstr(i) $(fIpxSelected) == TRUE
      set fIpxChosen = TRUE
    else
      set fIpxChosen = $(fIpxAllowed)
    endif
    set CPList = {"PAP", "CHAP", "SPAP", "CBCP", "COMPCP"}
    ifstr(i) $(fNetbeuiChosen) == TRUE
      set CPList = >$(CPList), "NBFCP"
    endif
    ifstr(i) $(fTcpIpChosen) == TRUE
      set CPList = >$(CPList), "IPCP"
    endif
    ifstr(i) $(fIpxChosen) == TRUE
      set CPList = >$(CPList), "IPXCP"
    endif
    set CurrentCPList = {}
    ForListDo $(OldCPList)
      set CPName = *($($),1)
      ifcontains(i) $(CPName) not-in $(CPList)
        DeleteRegTree $(KeyRasManPPP) $(CPName)
      else
        set CurrentCPList = >$(CurrentCPList), $(CPName))

```

```

endif
EndForListDo
forlistdo $(CPLList)
  ifcontains(i) $($ ) not-in $(CurrentCPLList)
    CreateRegKey $(KeyRasManPPP) +
      {$( ),0,GenericClass} "" $(!MAXIMUM_ALLOWED) "" KeyCp
    set path = #(CP-List, $( ), 1)
    set NewValueList = {{Path, 0, $(!REG_VT_EXPAND_SZ), $(path)}}
    ifstr $(KeyCp) != $(KeyNull)
      Shell "utility.inf", AddValueList, $(KeyCp), +
        $(NewValueList)
      ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "UpdateCPLList:AddValueList bombed out"
        goto UpdateCPLListEnd
      endif
      set RegistryErrorIndex = $($R0)
      Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
        goto UpdateCPLListEnd
      endif
      CloseRegKey $(KeyCp)
    else
      Debug-Output "UpdateCPLList:error creating key"
    endif
  endif
endforlistdo
CloseRegKey $(KeyRasManPPP)
else
  Debug-Output "UpdateCPLList:error opening RASMAN\PPP key"
  goto UpdateCPLListEnd
endif
set Status = STATUS_SUCCESSFUL
UpdateCPLListEnd =+
  Debug-Output "UpdateCPLList: exit"
  return $(Status)
[UpdateSoftwareType]
  Debug-Output "UpdateSoftwareType: entry"
  set ProductKeyName = $(!NTN_SoftwareBase)"\Microsoft\RAS\CurrentVersion"
  set Status = STATUS_FAILED
  set KeyCurrentVersion = ""
  OpenRegKey $(!REG_H_LOCAL) "" $(ProductKeyName) $(!MAXIMUM_ALLOWED)
KeyCurrentVersion
  ifstr $(KeyCurrentVersion) == ""
    Debug-Output "OEMNSVRA.INF:UpdateSoftwareType: couldn't open "$
(ProductKeyName)
    goto UpdateSoftwareTypeEnd
  endif
  SetRegValue $(KeyCurrentVersion) {SoftwareType, 0, $(!REG_VT_SZ), "service" }
  CloseRegKey $(KeyCurrentVersion)
  set Status = STATUS_SUCCESSFUL
UpdateSoftwareTypeEnd=+
  Debug-Output "UpdateSoftwareType: exit"
  return $(Status)
[UpdateLLInterface]
  Debug-Output "UpdateLLInterface: entry"
  set Status = STATUS_FAILED
  set KeyNull = ""
  set LLInterface = "\Device\RASARP"
  set IPLinkageKeyName = $(!NTN_ServiceBase)"\TCPIP\Linkage"
  OpenRegKey $(!REG_H_LOCAL) "" $(IPLinkageKeyName) $(!MAXIMUM_ALLOWED)

```

```

KeyIpLinkage
  ifstr $(KeyIpLinkage) == $(KeyNull)
    Debug-Output "OEMNSVRA.INF:UpdateLLInterface: couldn't open IP Linkage key"
    goto UpdateLLInterfaceEnd
  endif
  set NdisWanList = {}
  GetRegValue $(KeyIpLinkage) "Bind" TmpList
  ForListDo *($TmpList),4)
    Split-String $($), "\", BindList
    QueryListSize ListSize $(BindList)
    set ServiceName = *($BindList), $(ListSize))
    LibraryProcedure Result $(!LIBHANDLE) SetupStrncmp $(ServiceName) "NdisWan"
7
    ifint $(Result) == 0
      set NdisWanList = >($NdisWanList), $(ServiceName))
    endif
  EndForListDo
  CloseRegKey $(KeyIpLinkage)
  QueryListSize ListSize $(NdisWanList)
  ifint $(ListSize) >= 1
    ForListDo $(NdisWanList)
      set ServiceKeyName = $(!NTN_ServiceBase)"\"$($)"\Parameters\TCPIP"
      OpenRegKey $(!REG_H_LOCAL) "" $(ServiceKeyName) $(!MAXIMUM_ALLOWED)
KeyNdisWan
      ifstr $(KeyNdisWan) != $(KeyNull)
        SetRegValue $(KeyNdisWan) {IPAddress, 0, +
          $(!REG_VT_MULTI_SZ), {"0.0.0.0"}}
        SetRegValue $(KeyNdisWan) {SubnetMask, 0, +
          $(!REG_VT_MULTI_SZ), {"0.0.0.0"}}
        SetRegValue $(KeyNdisWan) {DefaultGateway, 0, +
          $(!REG_VT_MULTI_SZ), {""}}
        SetRegValue $(KeyNdisWan) {LLInterface, 0,+
          $(!REG_VT_SZ), $(LLInterface)}
        SetRegValue $(KeyNdisWan) {EnableDHCP, 0, +
          $(!REG_VT_DWORD), 0}
      else
        CreateRegKey $(!REG_H_LOCAL) +
          {$(ServiceKeyName),0,GenericClass} "" +
          $(!MAXIMUM_ALLOWED) "" KeyNdisWan
        ifstr $(KeyNdisWan) != $(KeyNull)
          SetRegValue $(KeyNdisWan) {IPAddress, 0, +
            $(!REG_VT_MULTI_SZ), {"0.0.0.0"}}
          SetRegValue $(KeyNdisWan) {SubnetMask, 0, +
            $(!REG_VT_MULTI_SZ), {"0.0.0.0"}}
          SetRegValue $(KeyNdisWan) {DefaultGateway, 0, +
            $(!REG_VT_MULTI_SZ), {""}}
          SetRegValue $(KeyNdisWan) {LLInterface, 0,+
            $(!REG_VT_SZ), $(LLInterface)}
          SetRegValue $(KeyNdisWan) {EnableDHCP, 0, +
            $(!REG_VT_DWORD), 0}
          SetRegValue $(KeyNdisWan) {UseZeroBroadcast, 0, +
            $(!REG_VT_DWORD), 0}
        else
          Debug-Output "OEMNSVRA.INF:UpdateLLInterface: couldn't create
NdisWan params-tcpip key"
          goto UpdateLLInterfaceEnd
        endif
      endif
    EndForListDo
  CloseRegKey $(KeyNdisWan)

```

```

        EndForListDo
    endif
    set Status = STATUS_SUCCESSFUL
UpdateLLInterfaceEnd =+
    Debug-Output "UpdateLLInterface: exit"
    return $(Status)
[SetRasArpBindValueFromTcpIP]
    Debug-Output "SetRasArpBindValueFromTcpIP: entry"
    set Status = STATUS_FAILED
    set KeyNull = ""
    set IPLinkageKeyName = $(!NTN_ServiceBase)"\TCPIP\Linkage"
    OpenRegKey $(!REG_H_LOCAL) "" $(IPLinkageKeyName) $(!MAXIMUM_ALLOWED)
KeyIpLinkage
    ifstr $(KeyIpLinkage) == $(KeyNull)
        Debug-Output "OEMNSVRA.INF:SetRasArpBindValueFromTcpIP: couldn't open IP
Linkage key"
        goto SetRasArpBindValueFromTcpIPEnd
    endif
    set NdisWanList = {}
    GetRegValue $(KeyIpLinkage) "Bind" TmpList
    ForListDo *($TmpList),4
        Split-String $($), "\", BindList
        QueryListSize ListSize $(BindList)
        set ServiceName = *($BindList), $(ListSize)
        LibraryProcedure Result $(!LIBHANDLE) SetupStrncmp $(ServiceName) "NdisWan"
7
        ifint $(Result) == 0
            set NdisWanList = >($NdisWanList), $($)
        endif
    EndForListDo
    set RasArpLinkageKeyName = $(!NTN_ServiceBase)"\RASARP\Linkage"
    OpenRegKey $(!REG_H_LOCAL) "" $(RasArpLinkageKeyName) $(!MAXIMUM_ALLOWED)
KeyRasArpLinkage
    ifstr $(KeyRasArpLinkage) != $(KeyNull)
        SetRegValue $(KeyRasArpLinkage) {Bind, 0, $(!REG_VT_MULTI_SZ), $
(NdisWanList)}
        CloseRegKey $(KeyRasArpLinkage)
    endif
    CloseRegKey $(KeyIpLinkage)
    set Status = STATUS_SUCCESSFUL
SetRasArpBindValueFromTcpIPEnd=+
    Debug-Output "SetRasArpBindValueFromTcpIP: entry"
    return $(Status)
[UpdateNetGroupDependency]
    Set Status = STATUS_SUCCESSFUL
    set KeyNull = ""
    set fNetbeuiInstalled = $($0)
    set fTcpIpInstalled = $($1)
    set fIpxInstalled = $($2)
    Debug-Output "UpdateNetGroupDependency entry"
    set ServiceList = {}
    ifstr(i) $(fNetbeuiInstalled) == TRUE
        set ServiceList = >($ServiceList), "nbf"
    endif
    ifstr(i) $(fTcpIpInstalled) == TRUE
        set ServiceList = >($ServiceList), "tcpip"
    endif
    ifstr(i) $(fIpxInstalled) == TRUE
        set ServiceList = >($ServiceList), "nwlkipx")

```

```

endif
ForListDo $(ServiceList)
    set Service = $($ )
    Debug-Output "OEMNSVRA.INF: Changing group dependency of "$(Service)
    OpenRegKey $(!REG_H_LOCAL) "" $(!NTN_ServiceBase)"\"$(Service) +
        $(!MAXIMUM_ALLOWED) KeyService
    ifstr $(KeyService) != $(KeyNull)
        set newGroupList = {"+NDIS", "+NDISWAN"}
        GetRegValue $(KeyService) "DependOnGroup" GrpList
        ifint $(RegLastError) == 0
            Debug-Output "UpdateNetGroupDependency: old group List "*(
(GrpList), 4)
                ForListDo *($GrpList),4)
                    ifstr(i) $($ ) != "NDIS"
                        ifstr(i) $($ ) != "NDISWAN"
                            set newGroup = "+"$($ )
                            set newGroupList = >($newGroupList), $($ )
                        endif
                    endif
                EndForListDo
            endif
            GetRegValue $(KeyService) "DependOnService" ServiceList
            ifint $(RegLastError) == 0
                Debug-Output "UpdateNetGroupDependency: old service List "*(
(ServiceList), 4)
                    ForListDo *($ServiceList),4)
                        set newGroupList = >($newGroupList), $($ )
                    EndForListDo
                endif
                Debug-Output "OEMNSVRA.INF: UpdateNetGroupDependency: new depend List
"$newGroupList)
                LibraryProcedure Result, $(!LIBHANDLE), SetupChangeServiceConfig, $
(Service) $(!SERVICE_NO_CHANGE), $(!SERVICE_NO_CHANGE), $(!SERVICE_NO_CHANGE), "",
"", $newGroupList), "", "", ""
                CloseRegKey $(KeyService)
            else
                Debug-Output "UpdateNetGroupDependency: failed to open service linkage
key"$($Service)
            endif
        EndForListDo
        Debug-Output "UpdateNetGroupDependency exit"
        return $(Status)
[RemoveNetGroupDependency]
Set Status = STATUS_SUCCESSFUL
set KeyNull = ""
set fNetbeuiInstalled = $($0)
set fTcpIpInstalled = $($1)
set fIpxInstalled = $($2)
Debug-Output "UpdateNetGroupDependency entry"
set ServiceList = {"nbf", "tcpip", "nwlnkipx"}
ForListDo $(ServiceList)
    set Service = $($ )
    Debug-Output "OEMNSVRA.INF: Changing group dependency of "$(Service)
    OpenRegKey $(!REG_H_LOCAL) "" $(!NTN_ServiceBase)"\"$(Service) +
        $(!MAXIMUM_ALLOWED) KeyService
    ifstr $(KeyService) != $(KeyNull)
        set DeleteFlag = ""
        GetRegValue $(KeyService), "DeleteFlag", DeleteFlagInfo
        set DeleteFlag = *($DeleteFlagInfo), 4)

```

```

ifint $(DeleteFlag) != 1
set newGroupList = {}
GetRegValue $(KeyService) "DependOnGroup" GrpList
ifint $(RegLastError) == 0
    Debug-Output "UpdateNetGroupDependency: old List "*($(GrpList), 4)
    ForListDo *$(GrpList),4)
        ifstr(i) $($) != "NDISWAN"
            set newGroup = "+"$(%)
            set newGroupList = >$(newGroupList), $(newGroup))
        endif
    EndForListDo
endif
GetRegValue $(KeyService) "DependOnService" ServiceList
ifint $(RegLastError) == 0
    Debug-Output "UpdateNetGroupDependency: old service List "*(
(ServiceList), 4)
    ForListDo *$(ServiceList),4)
        set newGroupList = >$(newGroupList), $(%)
    EndForListDo
endif
    Debug-Output "OEMNSVRA.INF: UpdateNetGroupDependency: new depend List
"$(newGroupList)
    LibraryProcedure Result, $(!LIBHANDLE), SetupChangeServiceConfig, $
(Service) $(!SERVICE_NO_CHANGE), $(!SERVICE_NO_CHANGE), $(!SERVICE_NO_CHANGE), "",
"", $(newGroupList), "", "", ""
    CloseRegKey $(KeyService)
endif
else
    Debug-Output "UpdateNetGroupDependency: failed to open service linkage
key"$(Service)
endif
EndForListDo
Debug-Output "UpdateNetGroupDependency exit"
return $(Status)
[UpdateIPRouterInfo]
set EnableRouter = $($0)
set KeyNull = ""
Debug-Output "UpdateIPRouterInfo entry"
OpenRegKey $(!REG_H_LOCAL) "" $(!NTN_ServiceBase)"\TCPIP\parameters" $(!
MAXIMUM_ALLOWED) KeyIpParams
ifstr $(KeyIpParams) != $(KeyNull)
    SetRegValue $(KeyIpParams) {IPEnableRouter, 0,+
$(!REG_VT_DWORD), $(EnableRouter)}
    CloseRegKey $(KeyIpParams)
endif
Debug-Output "UpdateIPRouterInfo exit"
return STATUS_SUCCESSFUL
[UpdateIPXRouterInfo]
set Status = STATUS_FAILED
set EnableRouter = $($0)
set KeyNull = ""
Debug-Output "UpdateIPXRouterInfo entry"
OpenRegKey $(!REG_H_LOCAL) "" $(!NTN_ServiceBase)"\NWLNKIPX\NetConfig" $(!
MAXIMUM_ALLOWED) KeyIpxNetConfig
ifstr $(KeyIpxNetConfig) != $(KeyNull)
    EnumRegKey $(KeyIpxNetConfig) DriverList
    ForListDo $(DriverList)
        set DriverName = *$(%),1)
        OpenRegKey $(KeyIpxNetConfig) "" $(DriverName) $(!MAXIMUM_ALLOWED)

```

```

Driver
    ifstr $(Driver) == $(KeyNull)
        Debug-Output "UpdateIPXRouterInfo: could not open key ipx\
netconfig\"$(DriverName)
        CloseRegKey $(KeyIpxNetConfig)
        return $(Status)
    endif
    SetRegValue $(Driver) {EnableWanRouter, 0,+
        $(!REG_VT_DWORD), $(EnableRouter)}
    CloseRegKey $(Driver)
EndForListDo
CloseRegKey $(KeyIpxNetConfig)
set Status = STATUS_SUCCESSFUL
else
    Debug-Output "UpdateIPXRouterInfo: error opening ipx\netconfig key"
endif
Debug-Output "UpdateIPXRouterInfo exit"
return $(Status)
[IsNetcardInstalled]
Set Status = STATUS_FAILED
Set fNetcardInstalled = FALSE
Set KeyNull = ""
set ProductRASASYMACName = "AsyncMac"
set NetworkCardKey = $(KeyNull)
OpenRegKey $(!REG_H_LOCAL) "" $(!NetworkCardKeyName) $(!MAXIMUM_ALLOWED)
NetworkCardKey
Ifstr(i) $(NetworkCardKey) != $(KeyNull)
    set NetcardsList = {}
    EnumRegKey $(NetworkCardKey) NetcardsList
    Ifint $(RegLastError) != $(!REG_ERROR_SUCCESS)
        Debug-Output "IsNetcardInstalled: EnumRegKey failed."
        goto IsNetcardInstalledEnd
    endif
    ForListDo $(NetcardsList)
        set KeyName = *($($),1)
        set Card = $(KeyNull)
        OpenRegKey $(NetworkCardKey) "" $(KeyName) $(!MAXIMUM_ALLOWED) Card
        ifstr $(Card) == $(KeyNull)
            Debug-Output "IsNetcardInstalled: could not open netcard key "$
(KeyName)
        else
            GetRegValue $(Card), "ProductName" ProductNameInfo
            Ifint $(RegLastError) != $(!REG_ERROR_SUCCESS)
                Debug-Output "IsNetcardInstalled: ProductName not found."
            else
                set CardProductName = *$(ProductNameInfo), 4)
                Debug-Output "IsNetcardInstalled: ProductName. "$
(CardProductName)
                ifstr(i) $(CardProductName) != $(!ProductNDISWANName)
                ifstr(i) $(CardProductName) != $(!ProductNDISWANDIALINName)
                ifstr(i) $(CardProductName) != $(!
ProductNDISWANDIALOUTName)
                ifstr(i) $(CardProductName) != $(!
ProductNDISWANDIALINIPName)
                ifstr(i) $(CardProductName) != $(!
ProductNDISWANDIALOUTIPName)
                ifstr(i) $(CardProductName) != $(!
ProductNDISWANDIALINOUTIPXName)
                ifstr(i) $(CardProductName) != $(ProductRASASYMACName)

```



```

endif
set status = STATUS_SUCCESSFUL
Debug-Output "IsNetworkConfigured exit"
Return $(status) $(WkstaConfigured) $(SrvrConfigured)
[QueryInstalledProtocols]
Debug-Output "QueryInstalledProtocols entry "
set NbfKeyName = $(!NTN_ServiceBase)\Nbf"
set TcpIpKeyName = $(!NTN_ServiceBase)\TcpIp"
set IpxKeyName = $(!NTN_ServiceBase)\NWLNKIPX"
set AppleTalkKeyName = $(!NTN_ServiceBase)\AppleTalk"
Set KeyNull = ""
Set status = STATUS_FAILED
Set NbfInstalled = FALSE
Set TcpIpInstalled = FALSE
Set IpxInstalled = FALSE
Set AppleTalkInstalled = FALSE
set KeyService = $(KeyNull)
set DeleteFlag = 0
set DeleteFlagInfo = {}
OpenRegKey $(!REG_H_LOCAL) "" $(NbfKeyName) $(!MAXIMUM_ALLOWED) KeyService
Ifstr(i) $(KeyService) != $(KeyNull)
    GetRegValue $(KeyService),"DeleteFlag", DeleteFlagInfo
    set DeleteFlag = *$(DeleteFlagInfo), 4)
    ifint $(DeleteFlag) != 1
        set NbfInstalled = TRUE
    endif
    CloseRegKey $(KeyService)
endif
set KeyService = $(KeyNull)
set DeleteFlag = 0
set DeleteFlagInfo = {}
OpenRegKey $(!REG_H_LOCAL) "" $(TcpIpKeyName) $(!MAXIMUM_ALLOWED) KeyService
Ifstr(i) $(KeyService) != $(KeyNull)
    GetRegValue $(KeyService),"DeleteFlag", DeleteFlagInfo
    set DeleteFlag = *$(DeleteFlagInfo), 4)
    ifint $(DeleteFlag) != 1
        set TcpIpInstalled = TRUE
    endif
    CloseRegKey $(KeyService)
endif
set KeyService = $(KeyNull)
set DeleteFlag = 0
set DeleteFlagInfo = {}
OpenRegKey $(!REG_H_LOCAL) "" $(IpxKeyName) $(!MAXIMUM_ALLOWED) KeyService
Ifstr(i) $(KeyService) != $(KeyNull)
    GetRegValue $(KeyService),"DeleteFlag", DeleteFlagInfo
    set DeleteFlag = *$(DeleteFlagInfo), 4)
    ifint $(DeleteFlag) != 1
        set IpxInstalled = TRUE
    endif
    CloseRegKey $(KeyService)
endif
set KeyService = $(KeyNull)
set DeleteFlag = 0
set DeleteFlagInfo = {}
OpenRegKey $(!REG_H_LOCAL) "" $(AppleTalkKeyName) $(!MAXIMUM_ALLOWED)
KeyService
Ifstr(i) $(KeyService) != $(KeyNull)
    GetRegValue $(KeyService),"DeleteFlag", DeleteFlagInfo

```

```

        set DeleteFlag = *$(DeleteFlagInfo), 4)
        ifint $(DeleteFlag) != 1
            set AppleTalkInstalled = TRUE
        endif
        CloseRegKey $(KeyService)
    endif
    set status = STATUS_SUCCESSFUL
    Debug-Output "QueryInstalledProtocols exit"
    Return $(status) $(NbfInstalled) $(TcpIpInstalled) $(IpXInstalled) +
        $(AppleTalkInstalled)
[ProtocolInfo]
NETBEUI          = "OEMNXPNB.INF", "NBF", 1
TCPIP            = "OEMNXPTC.INF", "TC", 2
IPX              = "OEMNXPIP.INF", "NWLNKIPX", 3
[InstallProtocol]
Set Status          = STATUS_FAILED
Set KeyNull         = ""
set Protocol        = $($0)
Debug-Output "OEMNSVRA.INF: Label: InstallProtocol"
Set ThisInfName = #(ProtocolInfo, $(Protocol), 1)
Set InfOption = #(ProtocolInfo, $(Protocol), 2)
Set BbIndex = #(ProtocolInfo, $(Protocol), 3)
Debug-Output "OEMNSVRA.INF: Installing "$(ThisInfName)
Ifint $(BbIndex) != 0
    read-syms Billboard$(BbIndex)$(!STF_LANGUAGE)
    Shell "subroutn.inf" PushBillboard NETSTATUSDLG $(Status)
    Set BillboardVisible = 1
Else-ifint $(BillboardVisible) != 0
    Shell "subroutn.inf" PopBillboard
    Set BillboardVisible = 0
Endif
set AddCopy = YES
set DoCopy = YES
set DoConfig = YES
set InvokedByRas = YES
set SaveNTN_InstallMode = $(!NTN_InstallMode)
set SaveSTF_INSTALL_MODE = $(!STF_INSTALL_MODE)
set !NTN_InstallMode = install
set !STF_INSTALL_MODE = EXPRESS
Shell $(ThisInfName) InstallOption $(!STF_LANGUAGE) $(InfOption) $(!STF_SRCDIR)
$(AddCopy) $(DoCopy) $(DoConfig) $(InvokedByRas)
set !NTN_InstallMode = $(SaveNTN_InstallMode)
set !STF_INSTALL_MODE = $(SaveSTF_INSTALL_MODE)
Ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "OEMNSVRA.INF: INF "$(ThisInfName)" SHELL ERROR!"
    Goto InstallProtocolEscape
Endif
Set InstallProtocolStatus = $($R0)
Ifstr(i) $(InstallProtocolStatus) != STATUS_SUCCESSFUL
    Ifstr(i) $(InstallProtocolStatus) != STATUS_USERCANCEL
        Debug-Output "OEMNSVRA.INF: INF "$(ThisInfName)" returned "$
(InstallProtocolStatus)
        Goto InstallProtocolEscape
    Endif
Endif
InstallProtocolEscape = +
    set Status = $(InstallProtocolStatus)
    return $(Status)
[UpgradeSelectedProtocols]

```

```

Debug-Output "UpgradeSelectedProtocols entry."
set Status = STATUS_FAILED
Set KeyNull = ""
set RasKeyName = $(!NTN_SoftwareBase)\Microsoft\Ras"
set RasProtocolName = $(!NTN_SoftwareBase)\Microsoft\Ras\Protocols"
set RasServiceParmName = $(!NTN_ServiceBase)\Remoteaccess\Parameters"
set AsyMacServiceParmName = $(!NTN_ServiceBase)\AsyncMac\Parameters"
set RasManPPPName = $(!NTN_ServiceBase)\RasMan\PPP"
set GtwyEnabled = 1
OpenRegKey $(!REG_H_LOCAL) "" $(RasServiceParmName) $(!MAXIMUM_ALLOWED)
KeyParam
ifstr $(KeyParam) != $(KeyNull)
    GetRegValue $(KeyParam), "NetBiosGatewayEnabled", GtwyEnabledList
    ifint $(RegLastError) == 0
        set GtwyEnabled = *$(GtwyEnabledList), 4)
    endif
    CloseRegKey $(KeyParam)
else
    Debug-Output "UpgradeSelectedProtocols: error opening RemoteAccess\
Parameters key"
endif
set DialinNBF = 0
set DialinIP = 0
set DialoutNBF = 0
set DialoutIP = 0
set DialinoutIPX = 0
OpenRegKey $(!REG_H_LOCAL) "" $(AsyMacServiceParmName) $(!MAXIMUM_ALLOWED)
KeyParam
ifstr $(KeyParam) != $(KeyNull)
    GetRegValue $(KeyParam), "DialinNBF", DialinNBFList
    ifint $(RegLastError) == 0
        set DialinNBF = *$(DialinNBFList), 4)
    endif
    GetRegValue $(KeyParam), "DialinIP", DialinIPList
    ifint $(RegLastError) == 0
        set DialinIP = *$(DialinIPList), 4)
    endif
    GetRegValue $(KeyParam), "DialoutNBF", DialoutNBFList
    ifint $(RegLastError) == 0
        set DialoutNBF = *$(DialoutNBFList), 4)
    endif
    GetRegValue $(KeyParam), "DialoutIP", DialoutIPList
    ifint $(RegLastError) == 0
        set DialoutIP = *$(DialoutIPList), 4)
    endif
    GetRegValue $(KeyParam), "DialinoutIPX", DialinoutIPXList
    ifint $(RegLastError) == 0
        set DialinoutIPX = *$(DialinoutIPXList), 4)
    endif
    CloseRegKey $(KeyParam)
else
    Debug-Output "UpgradeSelectedProtocols: error opening AsyncMac\Parameters
key"
endif
set fDownLevel = FALSE
OpenRegKey $(!REG_H_LOCAL) "" $(RasProtocolName) $(!MAXIMUM_ALLOWED)
RasProtocolKey
ifstr $(RasProtocolKey) == $(KeyNull)
    set fDownLevel = TRUE

```

```

        OpenRegKey $(!REG_H_LOCAL) "" $(RasKeyName) $(!MAXIMUM_ALLOWED) RasKey
        CreateRegKey $(RasKey) {"Protocols",0,GenericClass} "" $(!MAXIMUM_ALLOWED)
"" RasProtocolKey
        OpenRegKey $(RasKey) "" "Protocols" $(!MAXIMUM_ALLOWED) RasProtocolKey
        CloseRegKey $(RasKey)
    endif
    ifstr $(RasProtocolKey) != $(KeyNull)
        set MultilinkList = {}
        GetRegValue $(RasProtocolKey), "Multilink", MultiLinkList
        ifint $(RegLastError) != 0
            Debug-Output "Upgradeselectedprotocols: defaulting Multilink to 0"
            SetRegValue $(RasProtocolKey) {Multilink, 0, $(!REG_VT_DWORD), 0}
        endif
        set NetbeuiSelected = 0
        set NetbeuiAllowed = 0
        set TcpIpSelected = 0
        set TcpIpAllowed = 0
        set IpxSelected = 0
        set IpxAllowed = 0
        ifint $(DialoutNBF) != 0
            set NetbeuiSelected = 1
        endif
        ifint $(GtwyEnabled) == 1
            ifint $(DialinNBF) != 0
                set NetbeuiAllowed = 1
            endif
        else
            ifint $(DialoutNBF) != 0
                set NetbeuiAllowed = 1
            endif
        endif
        ifstr(i) $(fDownLevel) != TRUE
            ifint $(DialoutIP) != 0
                set TcpIpSelected = 1
            endif
            ifint $(DialinIP) != 0
                set TcpIpAllowed = 1
            endif
            ifint $(DialinoutIPX) != 0
                set IpxSelected = 1
                set IpxAllowed = 1
            endif
        endif
        set ItemList = {}
        GetRegValue $(RasProtocolKey), "fNetbeuiSelected", ItemList
        ifint $(RegLastError) != 0
            SetRegValue $(RasProtocolKey) {fNetbeuiSelected, 0,+
                $(!REG_VT_DWORD),$(NetbeuiSelected)}
        endif
        GetRegValue $(RasProtocolKey), "fTcpIpSelected", ItemList
        ifint $(RegLastError) != 0
            SetRegValue $(RasProtocolKey) {fTcpIpSelected, 0,+
                $(!REG_VT_DWORD),$(TcpIpSelected)}
        endif
        GetRegValue $(RasProtocolKey), "fIpxSelected", ItemList
        ifint $(RegLastError) != 0
            SetRegValue $(RasProtocolKey) {fIpxSelected, 0,+
                $(!REG_VT_DWORD),$(IpxSelected)}
        endif
    endif

```

```

GetRegValue $(RasProtocolKey), "fNetbeuiAllowed", ItemList
ifint $(RegLastError) != 0
    SetRegValue $(RasProtocolKey) {fNetbeuiAllowed, 0,+
                                   $(!REG_VT_DWORD),$(NetbeuiAllowed)}
endif
GetRegValue $(RasProtocolKey), "fTcpIpAllowed", ItemList
ifint $(RegLastError) != 0
    SetRegValue $(RasProtocolKey) {fTcpIpAllowed, 0,+
                                   $(!REG_VT_DWORD),$(TcpIpAllowed)}
endif
GetRegValue $(RasProtocolKey), "fIpxAllowed", ItemList
ifint $(RegLastError) != 0
    SetRegValue $(RasProtocolKey) {fIpxAllowed, 0,+
                                   $(!REG_VT_DWORD),$(IpxAllowed)}
endif
OpenRegKey $(RasProtocolKey) "" "NBF" $(!MAXIMUM_ALLOWED) NbfKey
ifstr $(NbfKey) == $(KeyNull)
    CreateRegKey $(RasProtocolKey) {"NBF",0,GenericClass} "" $(!
MAXIMUM_ALLOWED) "" NbfKey
    SetRegValue $(NbfKey) {NetBiosGatewayEnabled, 0,+
                           $(!REG_VT_DWORD),$(GtwyEnabled)}
    CloseRegKey $(NbfKey)
endif
ifstr(i) $(fDownLevel) != TRUE
    OpenRegKey $(RasProtocolKey) "" "IP" $(!MAXIMUM_ALLOWED) IpKey
    ifstr $(IpKey) != $(KeyNull)
        GetRegValue $(IpKey), "AllowNetworkAccess", ItemList
        ifint $(RegLastError) != 0
            SetRegValue $(IpKey) {AllowNetworkAccess, 0,+
                                   $(!REG_VT_DWORD),$(GtwyEnabled)}
        endif
        CloseRegKey $(IpKey)
    endif
    OpenRegKey $(RasProtocolKey) "" "IPX" $(!MAXIMUM_ALLOWED) IpxKey
    ifstr $(IpxKey) != $(KeyNull)
        GetRegValue $(IpxKey), "AllowNetworkAccess", ItemList
        ifint $(RegLastError) != 0
            SetRegValue $(IpxKey) {AllowNetworkAccess, 0,+
                                   $(!REG_VT_DWORD),$(GtwyEnabled)}
        endif
        CloseRegKey $(IpxKey)
    endif
endif
set ForceEncryptedPassword = 2
set ForceEncryptedData = 0
ifstr(i) $(fDownLevel) != TRUE
    GetRegValue $(RasProtocolKey), "ForceEncryptedData", DataList
    ifint $(RegLastError) != 0
        GetRegValue $(RasProtocolKey), "ForceEncryptedPassword", PasswdList
        ifint $(RegLastError) == 0
            set ForceEncryptedPassword = *$(PasswdList), 4)
            ifint $(ForceEncryptedPassword) == 1
                set ForceEncryptedPassword = 2
            endif
        endif
    else
        goto UpgradeSelectedProtocolsEnd
    endif
endif
endif

```

```

        SetRegValue $(RasProtocolKey) {ForceEncryptedPassword, 0,+
                                $(!REG_VT_DWORD), $(ForceEncryptedPassword)}
        SetRegValue $(RasProtocolKey) {ForceEncryptedData, 0,+
                                $(!REG_VT_DWORD), $(ForceEncryptedData)}
UpgradeSelectedProtocolsEnd =+
    CloseRegKey $(RasProtocolKey)
    set Status = STATUS_SUCCESSFUL
    else
        Debug-Output "UpgradeSelectedProtocols: error opening Ras\protocols key"
    endif
    Debug-Output "UpgradeSelectedProtocols exit."
    return $(Status)
[SaveSelectedProtocols]
    Debug-Output "SaveSelectedProtocols entry."
    set Status = STATUS_FAILED
    Set KeyNull = ""
    ifstr(i) $($0) == TRUE
        set NetbeuiSelected = 1
    else
        set NetbeuiSelected = 0
    endif
    ifstr(i) $($1) == TRUE
        set TcpIpSelected = 1
    else
        set TcpIpSelected = 0
    endif
    ifstr(i) $($2) == TRUE
        set IpxSelected = 1
    else
        set IpxSelected = 0
    endif
    ifstr(i) $($3) == TRUE
        set NetbeuiAllowed = 1
    else
        set NetbeuiAllowed = 0
    endif
    ifstr(i) $($4) == TRUE
        set TcpIpAllowed = 1
    else
        set TcpIpAllowed = 0
    endif
    ifstr(i) $($5) == TRUE
        set IpxAllowed = 1
    else
        set IpxAllowed = 0
    endif
    set RasKeyName = $(!NTN_SoftwareBase)\Microsoft\Ras"
    set RasProtocolName = $(!NTN_SoftwareBase)\Microsoft\Ras\Protocols"
    OpenRegKey $(!REG_H_LOCAL) "" $(RasProtocolName) $(!MAXIMUM_ALLOWED)
RasProtocolKey
    ifstr $(RasProtocolKey) == $(KeyNull)
        OpenRegKey $(!REG_H_LOCAL) "" $(RasKeyName) $(!MAXIMUM_ALLOWED) RasKey
        CreateRegKey $(RasKey) {"Protocols",0,GenericClass} "" $(!MAXIMUM_ALLOWED)
"" RasProtocolKey
        OpenRegKey $(RasKey) "" "Protocols" $(!MAXIMUM_ALLOWED) RasProtocolKey
        CloseRegKey $(RasKey)
    endif
    ifstr $(RasProtocolKey) != $(KeyNull)
        SetRegValue $(RasProtocolKey) {fNetbeuiSelected, 0,+

```

```

        $(!REG_VT_DWORD),$(NetbeuiSelected)}
SetRegValue $(RasProtocolKey) {fTcpIpSelected, 0,+
        $(!REG_VT_DWORD),$(TcpIpSelected)}
SetRegValue $(RasProtocolKey) {fIpxSelected, 0,+
        $(!REG_VT_DWORD),$(IpxSelected)}
SetRegValue $(RasProtocolKey) {fNetbeuiAllowed, 0,+
        $(!REG_VT_DWORD),$(NetbeuiAllowed)}
SetRegValue $(RasProtocolKey) {fTcpIpAllowed, 0,+
        $(!REG_VT_DWORD),$(TcpIpAllowed)}
SetRegValue $(RasProtocolKey) {fIpxAllowed, 0,+
        $(!REG_VT_DWORD),$(IpxAllowed)}
CloseRegKey $(RasProtocolKey)
set Status = STATUS_SUCCESSFUL
else
    Debug-Output "error opening Ras\protocols key"
endif
Debug-Output "SaveSelectedProtocols exit."
return $(Status)
[QuerySelectedProtocols]
Debug-Output "QuerySelectedProtocols: entry"
set Status = STATUS_FAILED
Set KeyNull = ""
set fNetbeuiSelected = FALSE
set fTcpIpSelected = FALSE
set fIpxSelected = FALSE
set fNetbeuiAllowed = FALSE
set fTcpIpAllowed = FALSE
set fIpxAllowed = FALSE
set NetbeuiSelected = {}
set TcpIpSelected = {}
set IpxSelected = {}
set NetbeuiAllowed = {}
set TcpIpAllowed = {}
set IpxAllowed = {}
set RasKeyName = $(!NTN_SoftwareBase)"\Microsoft\Ras\Protocols"
OpenRegKey $(!REG_H_LOCAL) "" $(RasKeyName) $(!MAXIMUM_ALLOWED) RasKey
ifstr $(RasKey) != $(KeyNull)
    GetRegValue $(RasKey), "fNetbeuiSelected", NetbeuiSelected
    ifint *$(NetbeuiSelected), 4) == 1
        set fNetbeuiSelected = TRUE
    else
        set fNetbeuiSelected = FALSE
    endif
    GetRegValue $(RasKey), "fTcpIpSelected", TcpIpSelected
    ifint *$(TcpIpSelected), 4) == 1
        set fTcpIpSelected = TRUE
    else
        set fTcpIpSelected = FALSE
    endif
    GetRegValue $(RasKey), "fIpxSelected", IpxSelected
    ifint *$(IpxSelected), 4) == 1
        set fIpxSelected = TRUE
    else
        set fIpxSelected = FALSE
    endif
    GetRegValue $(RasKey), "fNetbeuiAllowed", NetbeuiAllowed
    ifint *$(NetbeuiAllowed), 4) == 1
        set fNetbeuiAllowed = TRUE
    else

```

```

        set fNetbeuiAllowed = FALSE
    endif
    GetRegValue $(RasKey), "fTcpIpAllowed", TcpIpAllowed
    ifint *$(TcpIpAllowed), 4) == 1
        set fTcpIpAllowed = TRUE
    else
        set fTcpIpAllowed = FALSE
    endif
    GetRegValue $(RasKey), "fIpxAllowed", IpxAllowed
    ifint *$(IpxAllowed), 4) == 1
        set fIpxAllowed = TRUE
    else
        set fIpxAllowed = FALSE
    endif
    CloseRegKey $(RasKey)
    set Status = STATUS_SUCCESSFUL
else
    Debug-Output "error opening Ras\protocols key"
endif
Debug-Output "QuerySelectedProtocols: exit"
return $(Status) $(fNetbeuiSelected) $(fTcpIpSelected) $(fIpxSelected) +
        $(fNetbeuiAllowed) $(fTcpIpAllowed) $(fIpxAllowed)
[UpdateSelectedProtocols]
Debug-Output "UpdateSelectedProtocols: entry"
set Status = STATUS_FAILED
Shell "" QuerySelectedProtocols
ifint $$ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "error shelling QuerySelectedProtocols."
    goto UpdateSelectedProtocolsEnd
endif
Ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "error returned by QuerySelectedProtocols."
    goto UpdateSelectedProtocolsEnd
endif
set fNetbeuiSelected = $($R1)
set fTcpIpSelected = $($R2)
set fIpxSelected = $($R3)
set fNetbeuiAllowed = $($R4)
set fTcpIpAllowed = $($R5)
set fIpxAllowed = $($R6)
Debug-Output "UpdateSelectedProtocols: Selected protocols NBF IP IPX "$
(fNetbeuiSelected)" "$ (fTcpIpSelected)" "$ (fIpxSelected)
shell "" QueryInstalledProtocols
ifint $$ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "error shelling QueryInstalledProtocols."
    goto UpdateSelectedProtocolsEnd
endif
Ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "error returned by QueryInstalledProtocols."
    goto UpdateSelectedProtocolsEnd
endif
set fNetbeuiInstalled = $($R1)
set fTcpIpInstalled = $($R2)
set fIpxInstalled = $($R3)
Debug-Output "UpdateSelectedProtocols: Installed Protocols NBF IP IPX "$
(fNetbeuiInstalled)" "$ (fTcpIpInstalled)" "$ (fIpxInstalled)
set fNetbeuiSelectedNew = $(fNetbeuiSelected)
set fTcpIpSelectedNew = $(fTcpIpSelected)
set fIpxSelectedNew = $(fIpxSelected)

```



```

set fNetbeuiAllowedNew = $(fNetbeuiAllowed)
set fTcpIpAllowedNew   = $(fTcpIpAllowed)
set fIpxAllowedNew     = $(fIpxAllowed)
ifstr(i) $(fNetbeuiSelectedNew) == TRUE
    set fNetbeuiChosen = TRUE
else
    set fNetbeuiChosen = $(fNetbeuiAllowedNew)
endif
ifstr(i) $(fTcpIpSelectedNew) == TRUE
    set fTcpIpChosen = TRUE
else
    set fTcpIpChosen = $(fTcpIpAllowedNew)
endif
ifstr(i) $(fIpxSelectedNew) == TRUE
    set fIpxChosen = TRUE
else
    set fIpxChosen = $(fIpxAllowedNew)
endif
ifstr(i) $(fNetbeuiInstalled) == FALSE
    set fNetbeuiSelectedNew = FALSE
    set fNetbeuiAllowedNew = FALSE
endif
ifstr(i) $(fTcpIpInstalled) == FALSE
    set fTcpIpSelectedNew = FALSE
    set fTcpIpAllowedNew = FALSE
endif
ifstr(i) $(fIpxInstalled) == FALSE
    set fIpxSelectedNew = FALSE
    set fIpxAllowedNew = FALSE
endif
ifstr(i) $(fNetbeuiSelectedNew) == $(fNetbeuiSelected)
    ifstr(i) $(fTcpIpSelectedNew) == $(fTcpIpSelected)
        ifstr(i) $(fIpxSelectedNew) == $(fIpxSelected)
            ifstr(i) $(fNetbeuiAllowedNew) == $(fNetbeuiAllowed)
                ifstr(i) $(fTcpIpAllowedNew) == $(fTcpIpAllowed)
                    ifstr(i) $(fIpxAllowedNew) == $(fIpxAllowed)
                        set Status = STATUS_SUCCESSFUL
                        Debug-Output "UpdateSelectedProtocols: Nothing changed"
                        goto UpdateSelectedProtocolsEnd
                    endif
                endif
            endif
        endif
    endif
endif
Shell "" SaveSelectedProtocols $(fNetbeuiSelectedNew) $(fTcpIpSelectedNew) +
                                     $(fIpxSelectedNew) $(fNetbeuiAllowedNew) +
                                     $(fTcpIpAllowedNew) $(fIpxAllowedNew)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "error shelling SaveSelectedProtocols."
    goto UpdateSelectedProtocolsEnd
endif
Ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "error returned by SaveSelectedProtocols."
    goto UpdateSelectedProtocolsEnd
endif
ifstr(i) $(fNetbeuiSelectedNew) == TRUE
    set fNetbeuiChosen = TRUE
else

```

```

        set fNetbeuiChosen = $(fNetbeuiAllowedNew)
    endif
    ifstr(i) $(fTcpIpSelectedNew) == TRUE
        set fTcpIpChosen = TRUE
    else
        set fTcpIpChosen = $(fTcpIpAllowedNew)
    endif
    ifstr(i) $(fIpXSelectedNew) == TRUE
        set fIpXChosen = TRUE
    else
        set fIpXChosen = $(fIpXAllowedNew)
    endif
    Shell "" UpdateNetCardInfo $(fNetbeuiChosen) $(fTcpIpChosen) +
        $(fIpXChosen)
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "error shelling UpdateNetCardInfo."
        goto UpdateSelectedProtocolsEnd
    endif
    Ifstr(i) $($?0) != STATUS_SUCCESSFUL
        Debug-Output "error returned by UpdateNetCardInfo."
        goto UpdateSelectedProtocolsEnd
    endif
    set Status = STATUS_SUCCESSFUL
    ifstr(i) $(fNetbeuiAllowedNew) == FALSE
        Debug-Output "UpdateSelectedProtocols: Removing RemoteAccess NBF
dependency"
        Shell "" RemoveServiceDependency "RemoteAccess" "NBF"
    endif
    ifstr(i) $(fTcpIpChosen) == FALSE
        Debug-Output "UpdateSelectedProtocols: Removing RasArp service"
        shell "" RemoveRasArpService
    endif
    ifstr(i) $(fIpXAllowedNew) == FALSE
        Debug-Output "UpdateSelectedProtocols: Removing IPX router and SAP"
        shell "" RemoveNwlnkRipService
        shell "" RemoveIsnSapService
        Shell "" RemoveServiceDependency "RemoteAccess" "NWLNKIPX"
        ifstr(i) $($?0) == STATUS_FAILED
            Debug-Output "UpdateSelectedProtocols: error removing service
dependency of RemoteAccess on NWLNKIPX"
        endif
    endif
UpdateSelectedProtocolsEnd = +
    Debug-Output "UpdateSelectedProtocols: exit"
    return $(Status) $(fNetbeuiChosen) $(fTcpIpChosen) $(fIpXChosen)
[UpgradeIsdnInfo]
    Debug-Output "UpgradeIsdnInfo entry."
    set Status = STATUS_FAILED
    Set KeyNull = ""
    set RasKeyName = $(!NTN_SoftwareBase)"\Microsoft\Ras"
    set TapiName = $(!NTN_SoftwareBase)"\Microsoft\Ras\Tapi Devices"
    set RasIsdnName = $(!NTN_SoftwareBase)"\Microsoft\Ras\MEDIA\ISDN"
    set RasManParamName = $(!NTN_ServiceBase)"\RasMan\Parameters"
    set PcimapName = "HARDWARE\DEVICEMAP\TAPI DEVICES\PCIMAC"
    set KeyIsdn = $(KeyNull)
    OpenRegKey $(!REG_H_LOCAL) "" $(RasIsdnName) $(!MAXIMUM_ALLOWED) KeyIsdn
    ifstr $(KeyIsdn) != $(KeyNull)
        EnumRegKey $(KeyIsdn) PortList
        ifint $(RegLastError) != 0

```

```

        Debug-Output "UpgradeIsdnInfo: error enumerating MEDIAS\ISDN key."
        CloseRegKey $(KeyIsdn)
        set Status = STATUS_SUCCESSFUL
        goto UpgradeIsdnInfoEnd
    endif
    QueryListSize IsdnPorts $(PortList)
    ifint $(IsdnPorts) == 0
        set Status = STATUS_SUCCESSFUL
        CloseRegKey $(KeyIsdn)
        goto UpgradeIsdnInfoEnd
    endif
    set MediaType = "ISDN"
    set Addresses = {}
    OpenRegKey $(!REG_H_LOCAL) "" $(PcimapName) +
                                                $(!MAXIMUM_ALLOWED) KeyPcimap

    ifstr $(KeyPcimap) != $(KeyNull)
        GetRegValue $(KeyPcimap), "Address", AddressList
        ifint $(RegLastError) == 0
            set Addresses = *$(AddressList), 4
        endif
        GetRegValue $(KeyPcimap), "Media Type", MediaValue
        ifint $(RegLastError) == 0
            set MediaType = *$(MediaValue), 4
        endif
        CloseRegKey $(KeyPcimap)
    else
        Debug-Output "UpgradeIsdnInfo: error opening DEVICEMAP\TAPI DEVICES\
PCIMAC key."
        CloseRegKey $(KeyIsdn)
        goto UpgradeIsdnInfoEnd
    endif
    set AddressList = {}
    set NameList = {}
    set UsageList = {}
    set index = 1
    forlistdo $(PortList)
        set Address = *$(Addresses), $(index)
        set-add index = $(index), 1
        set AddressList = >$(AddressList), $(Address)
        set PortName = *$(index), 1
        set NameList = >$(NameList), Pcimap$(PortName)
        OpenRegKey $(KeyIsdn) "" $(PortName) $(!MAXIMUM_ALLOWED) KeyPort
        ifstr $(KeyPort) != $(KeyNull)
            GetRegValue $(KeyPcimap), "Usage", UsageValue
            ifint $(RegLastError) == 0
                set Usage = *$(UsageValue), 4
                set UsageList = >$(UsageList), $(Usage)
            else
                Debug-Output "UpgradeIsdnInfo: error reading usage "$(PortName)
                set UsageList = >$(UsageList), "Client"
            endif
            CloseRegKey $(KeyPort)
        else
            Debug-Output "UpgradeIsdnInfo: error opening key "$(PortName)
            set UsageList = >$(UsageList), "Client"
        endif
    endforlistdo
    set KeyTapi = $(KeyNull)
    CreateRegKey $(!REG_H_LOCAL) +

```

```

        {$(TapiName),$(NoTitle),GenericClass} +
        "" $(!MAXIMUM_ALLOWED) "" KeyTapi
ifstr $(KeyTapi) != $(KeyNull)
    CreateRegKey $(KeyTapi) +
        {"Pcimac" ,$(NoTitle),GenericClass} +
        "" $(!MAXIMUM_ALLOWED) "" KeyPcimac
    ifstr $(KeyPcimac) != $(KeyNull)
        Debug-Output "UpgradeIsdnInfo: MediaType "$(MediaType)
        Debug-Output "UpgradeIsdnInfo: Addresses "$(AddressList)
        Debug-Output "UpgradeIsdnInfo: Names "$(NameList)
        Debug-Output "UpgradeIsdnInfo: Usage "$(UsageList)
        SetRegValue $(KeyPcimac) {"Media Type", 0, +
            $(!REG_VT_SZ),$(MediaType)}
        SetRegValue $(KeyPcimac) {"Address", 0, +
            $(!REG_VT_MULTI_SZ),$(AddressList)}
        SetRegValue $(KeyPcimac) {"Friendly Name", 0, +
            $(!REG_VT_MULTI_SZ),$(NameList)}
        SetRegValue $(KeyPcimac) {"Usage", 0, +
            $(!REG_VT_MULTI_SZ),$(UsageList)}
        CloseRegKey $(KeyPcimac)
    else
        Debug-Output "UpgradeIsdnInfo: error creating RAS\TAPI DEVICES\
Pcimac key"
    endif
else
    Debug-Output "UpgradeIsdnInfo: error creating RAS\TAPI DEVICES key"
endif
CloseRegKey $(KeyIsdn)
OpenRegKey $(!REG_H_LOCAL) "" $(RasKeyName) +
    $(!MAXIMUM_ALLOWED) KeyRas
ifstr $(KeyRas) != $(KeyNull)
    DeleteRegTree $(KeyRas) "Media"
    CloseRegKey $(KeyRas)
endif
set KeyRasman = $(KeyNull)
OpenRegKey $(!REG_H_LOCAL) "" $(RasManParamName) +
    $(!MAXIMUM_ALLOWED) KeyRasman
ifstr $(KeyRasman) != $(KeyNull)
    GetRegValue $(KeyRasman), "Medias", MediaList
    ifint $(RegLastError) == 0
        set Medias = *$(MediaList), 4)
    else
        Debug-Output "UpgradeIsdnInfo: error reading Medias value "
    endif
    set NewMedias = {}
    forlistdo $(Medias)
        ifstr(i) $($) != "ISDN"
            set NewMedias = >$(NewMedias), $($)
        endif
    endforlistdo
    set NewMedias = >$(NewMedias), "rastapi"
    Debug-Output "UpgradeIsdnInfo: NewMedias "$(NewMedias)
    SetRegValue $(KeyRasman) {"Medias", 0, +
        $(!REG_VT_MULTI_SZ),$(NewMedias)}
    CloseRegKey $(KeyRasman)
else
    Debug-Output "UpgradeIsdnInfo: error opening Services\Rasman\Parameters
key"
    goto UpgradeIsdnInfoEnd

```

```

        endif
        set Status = STATUS_SUCCESSFUL
    else
        set Status = STATUS_SUCCESSFUL
    endif
UpgradeIsdnInfoEnd = +
    Debug-Output "UpgradeIsdnInfo exit."
    return $(Status)
[UpdateNetCardInfo]
    Debug-Output "UpdateNetCardInfo: entry"
    set Status = STATUS_FAILED
    Set KeyNull = ""
    set fNetbeuiChosen = $($0)
    set fTcpIpChosen = $($1)
    set fIpxChosen = $($2)
    set RasAsyMacParamKeyName = $(!NTN_ServiceBase)\AsyncMac\Parameters"
    OpenRegKey $(!REG_H_LOCAL) "" $(!NetworkCardKeyName) $(!MAXIMUM_ALLOWED)
KeyNetcards
    ifstr $(KeyNetcards) == $(KeyNull)
        Debug-Output "UpdateNetCardInfo: could not open Netcards key"
        goto UpdateNetCardInfoEnd
    endif
    EnumRegKey $(KeyNetcards) NetcardsList
    set RemoveList = {}
    ForListDo $(NetcardsList)
        set KeyName = *($($),1)
        OpenRegKey $(KeyNetcards) "" $(KeyName) $(!MAXIMUM_ALLOWED) Card
        ifstr $(Card) == $(KeyNull)
            Debug-Output "OEMNSVRA.INF: could not open netcard key"
            CloseRegKey $(KeyNetcards)
            goto UpdateNetCardInfoEnd
        endif
        GetRegValue $(Card), "ProductName" ProductNameInfo
        set CardProductName = *($($ProductNameInfo), 4)
        ifstr(i) $(fNetbeuiChosen) == FALSE
            ifstr(i) $(CardProductName) == $(!ProductNDISWANDIALINName)
                set RemoveList = >($($RemoveList), +
                    {$(!ProductNDISWANName),+
                    {$(!NetworkCardKeyName)"\"$(KeyName)}})
            else-ifstr(i) $(CardProductName) == $(!ProductNDISWANDIALOUTName)
                set RemoveList = >($($RemoveList), +
                    {$(!ProductNDISWANName),+
                    {$(!NetworkCardKeyName)"\"$(KeyName)}})
            endif
        endif
        ifstr(i) $(fTcpIpChosen) == FALSE
            ifstr(i) $(CardProductName) == $(!ProductNDISWANDIALINIPName)
                set RemoveList = >($($RemoveList), +
                    {$(!ProductNDISWANName),+
                    {$(!NetworkCardKeyName)"\"$(KeyName)}})
            else-ifstr(i) $(CardProductName) == $(!ProductNDISWANDIALOUTIPName)
                set RemoveList = >($($RemoveList), +
                    {$(!ProductNDISWANName),+
                    {$(!NetworkCardKeyName)"\"$(KeyName)}})
            endif
        endif
        ifstr(i) $(fIpxChosen) == FALSE
            ifstr(i) $(CardProductName) == $(!ProductNDISWANDIALINOUTIPXName)
                set RemoveList = >($($RemoveList), +

```

```

        {$(!ProductNDISWANName), +
          $(!NetworkCardKeyName)"\"$(KeyName)}})
    endif
  endif
  CloseRegKey $(Card)
EndForListDo
CloseRegKey $(KeyNetcards)
QueryListSize NetCards $(RemoveList)
ifint $(NetCards) != 0
  ForListDo $(RemoveList)
    debug-output "Removing hardware component: "$($
    Shell "utility.inf", RemoveHardwareComponent, +
      $(!Manufacturer), *($($),1), *($($),2)
  EndForListDo
endif
OpenRegKey $(!REG_H_LOCAL) "" $(RasAsyMacParamKeyName) $(!MAXIMUM_ALLOWED)
KeyMacParams
ifstr $(KeyMacParams) == $(KeyNull)
  Debug-Output "UpdateNetCardInfo: could not open AsyncMac Params key"
  goto UpdateNetCardInfoEnd
endif
set NewValueList = {}
ifstr(i) $(fNetbeuiChosen) == FALSE
  set NewValueList = >($NewValueList), +
    {DialinNBF, $(NoTitle), $(!REG_VT_DWORD), 0})
  set NewValueList = >($NewValueList), +
    {DialoutNBF, $(NoTitle), $(!REG_VT_DWORD), 0})
endif
ifstr(i) $(fTcpIpChosen) == FALSE
  set NewValueList = >($NewValueList), +
    {DialinIP, $(NoTitle), $(!REG_VT_DWORD), 0 }
  set NewValueList = >($NewValueList), +
    {DialoutIP, $(NoTitle), $(!REG_VT_DWORD), 0 }
endif
ifstr(i) $(fIpxChosen) == FALSE
  set NewValueList = >($NewValueList), +
    {DialinoutIPX, $(NoTitle), $(!REG_VT_DWORD), 0})
endif
Shell "utility.inf", AddValueList, $(KeyMacParams), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
  Debug-Output "UpdateNetCardInfo:AddValueList bombed out"
  goto UpdateNetCardInfoEnd
endif
set RegistryErrorIndex = $($R0)
CloseRegKey $(KeyMacParams)
Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
  goto UpdateNetCardInfoEnd
endif
set Status = STATUS_SUCCESSFUL
UpdateNetCardInfoEnd +=
  Debug-Output "UpdateNetcardInfo: Exit"
  return $(Status)
[UpdateNdisWanInfo]
  Debug-Output "UpdateNdisWanNetInfo: entry"
  set Status = STATUS_FAILED
  Set KeyNull = ""
  set NdisWanName = $(!NTN_SoftwareBase)"\Microsoft\NdisWan\CurrentVersion"
  set NdisWanRulesName = $(!NTN_SoftwareBase)"\Microsoft\NdisWan\CurrentVersion\
NetRules"

```

```

set NdisWanSvcName = $(!NTN_ServiceBase)"\NdisWan"
set RasManLinkageName = $(!NTN_ServiceBase)"\RasMan\Linkage"
OpenRegKey $(!REG_H_LOCAL) "" $(NdisWanName) $(!MAXIMUM_ALLOWED) KeyNdisWan
ifstr $(KeyNdisWan) != $(KeyNull)
    SetRegValue $(KeyNdisWan) {Description, 0, +
        $(!REG_VT_SZ),$(!ProductNDISWANDescription)}
    SetRegValue $(KeyNdisWan) {PathName, 0, +
        $(!REG_VT_SZ),$(!ProductNDISWANImagePath)}
    SetRegValue $(KeyNdisWan) {ServiceName, 0, +
        $(!REG_VT_SZ),$(!ProductNDISWANName)}
    SetRegValue $(KeyNdisWan) {Title, 0, +
        $(!REG_VT_SZ),$(!ProductNDISWANTitle)}
    CloseRegKey $(KeyNdisWan)
else
    Debug-Output "UpdateNdisWanInfo: could not open NdisWan key"
endif
OpenRegKey $(!REG_H_LOCAL) "" $(NdisWanRulesName) $(!MAXIMUM_ALLOWED) KeyRules
ifstr $(KeyRules) != $(KeyNull)
    SetRegValue $(KeyRules) {bindable, 0, +
        $(!REG_VT_MULTI_SZ),$(!NetRuleNDISWANBindable)}
    SetRegValue $(KeyRules) {bindform, 0, +
        $(!REG_VT_SZ),$(!NetRuleNDISWANBindForm)}
    SetRegValue $(KeyRules) {class, 0, +
        $(!REG_VT_MULTI_SZ),$(!NetRuleNDISWANClass)}
    SetRegValue $(KeyRules) {type, 0, +
        $(!REG_VT_SZ),$(!NetRuleNDISWANType)}
    SetRegValue $(KeyRules) {InfOption, 0, +
        $(!REG_VT_SZ), "NDISWAN"}
    CloseRegKey $(KeyRules)
else
    Debug-Output "UpdateNdisWanInfo: could not open NdisWan NetRules key"
endif
OpenRegKey $(!REG_H_LOCAL) "" $(NdisWanSvcName) $(!MAXIMUM_ALLOWED) KeyService
ifstr $(KeyService) != $(KeyNull)
    SetRegValue $(KeyService) {DisplayName, 0, +
        $(!REG_VT_SZ),$(!ProductNDISWANDisplayName)}
    SetRegValue $(KeyService) {ImagePath, 0, +
        $(!REG_VT_EXPAND_SZ),$(!ProductNDISWANImagePath)}
    SetRegValue $(KeyService) {Start, 0, $(!REG_VT_DWORD),2}
    SetRegValue $(KeyService) {Group, 0, $(!REG_VT_SZ), "NDISWAN"}
    DeleteRegValue $(KeyService) "DependOnService"
    DeleteRegValue $(KeyService) "DependOnGroup"
    OpenRegKey $(KeyService) "" "Linkage" $(!MAXIMUM_ALLOWED) KeyLinkage
    ifstr $(KeyLinkage) != $(KeyNull)
        DeleteRegValue $(KeyLinkage) "OtherDependencies"
        CloseRegKey $(KeyLinkage)
    endif
    CloseRegKey $(KeyService)
else
    Debug-Output "UpdateNdisWanInfo: could not open NdisWan services key"
endif
Shell "" RemoveServiceDependency "RasMan" "RasHub"
set Status = STATUS_SUCCESSFUL
UpdateNdisWanInfoEnd +=
    Debug-Output "UpdateNdisWanInfo: Exit"
    return $(Status)
[UpdateAsyncMacNetRules]
    Debug-Output "UpdateAsyncMacNetRules: entry"
    set Status = STATUS_FAILED

```

```

Set KeyNull = ""
set AsyncMacRulesName = $(!NTN_SoftwareBase)"\Microsoft\AsyncMac\
CurrentVersion\NetRules"
OpenRegKey $(!REG_H_LOCAL) "" $(AsyncMacRulesName) $(!MAXIMUM_ALLOWED) KeyRules
ifstr $(KeyRules) != $(KeyNull)
    set Status = STATUS_SUCCESSFUL
    SetRegValue $(KeyRules) {bindable, 0, +
        $(!REG_VT_MULTI_SZ),$(!NetRuleRASASYMACBindable)}
    CloseRegKey $(KeyRules)
else
    Debug-Output "UpdateAsyncMacNetRules: could not open Ndiswan NetRules
key"
endif
Debug-Output "UpdateAsyncMacNetRules: Exit"
return $(Status)
[UpdateAsyncMacParameters]
Debug-Output "UpdateAsyncMacParameters: entry"
set Status = STATUS_SUCCESSFUL
Set KeyNull = ""
set RasAsyMacParamKeyName = $(!NTN_ServiceBase)"\AsyncMac\Parameters"
OpenRegKey $(!REG_H_LOCAL) "" $(RasAsyMacParamKeyName) $(!MAXIMUM_ALLOWED)
KeyMacParams
ifstr $(KeyMacParams) != $(KeyNull)
    GetRegValue $(KeyMacParams), "DialinNBF" DialinNBFInfo
    Ifint $(RegLastError) != $(!REG_ERROR_SUCCESS)
        GetRegValue $(KeyMacParams), "Dialin" DialinNBFInfo
        set PrevNumDialinNBF = *$(DialinNBFInfo), 4)
        SetRegValue $(KeyMacParams) {DialinNBF, 0, +
            $(!REG_VT_DWORD),$(PrevNumDialinNBF)}
        Ifint $(RegLastError) == $(!REG_ERROR_SUCCESS)
            Debug-Output "UpdateAsyncMacParameters: deleting dialin key"
            DeleteRegValue $(KeyMacParams) "Dialin"
        endif
    endif
    GetRegValue $(KeyMacParams), "DialoutNBF" DialoutNBFInfo
    Ifint $(RegLastError) != $(!REG_ERROR_SUCCESS)
        GetRegValue $(KeyMacParams), "Dialout" DialoutNBFInfo
        set PrevNumDialoutNBF = *$(DialoutNBFInfo), 4)
        SetRegValue $(KeyMacParams) {DialoutNBF, 0, +
            $(!REG_VT_DWORD),$(PrevNumDialoutNBF)}
        Ifint $(RegLastError) == $(!REG_ERROR_SUCCESS)
            Debug-Output "UpdateAsyncMacParameters: deleting dialout key"
            DeleteRegValue $(KeyMacParams) "Dialout"
        endif
    endif
    CloseRegKey $(KeyMacParams)
else
    Debug-Output "OEMNSVRA.INF: could not open AsyncMac Params key"
endif
Debug-Output "UpdateAsyncMacParameters: Exit"
return $(Status)
[UpdateAsyncMacStartType]
Debug-Output "UpdateAsyncMacStartType: entry"
set Status = STATUS_SUCCESSFUL
Set KeyNull = ""
set RasAsyMacKeyName = $(!NTN_ServiceBase)"\AsyncMac"
OpenRegKey $(!REG_H_LOCAL) "" $(RasAsyMacKeyName) $(!MAXIMUM_ALLOWED) KeyMac
ifstr $(KeyMac) != $(KeyNull)
    GetRegValue $(KeyMac), "Start" StartValue

```



```

    Ifint $(RegLastError) == $(!REG_ERROR_SUCCESS)
        set Start = *$(StartValue), 4)
        ifint $(Start) == 3
            set Start = 2
            SetRegValue $(KeyMac) {Start, 0, $(!REG_VT_DWORD), $(Start)}
        endif
    endif
    CloseRegKey $(KeyMac)
else
    Debug-Output "OEMNSVRA.INF: could not open AsyncMac key"
endif
Debug-Output "UpdateAsyncMacStartType: Exit"
return $(Status)
[UpdatePerfmonInfo]
Debug-Output "UpdatePerfmonInfo: entry"
set Status = STATUS_FAILED
Set KeyNull = ""
set RemoteAccessService = $(!NTN_ServiceBase)"\RemoteAccess"
OpenRegKey $(!REG_H_LOCAL) "" $(RemoteAccessService) $(!MAXIMUM_ALLOWED)
KeyService
ifstr $(KeyService) != $(KeyNull)
    Shell "" UpdatePerfmonInfoHelper $(KeyService)
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "error shelling UpdatePerfmonInfoHelper."
        goto UpdatePerfmonInfoEnd
    endif
    Ifstr(i) $($R0) != STATUS_SUCCESSFUL
        Debug-Output "error returned by UpdatePerfmonInfo."
        goto UpdatePerfmonInfoEnd
    endif
    CloseRegKey $(KeyService)
    set Status = STATUS_SUCCESSFUL
else
    Debug-Output "UpdatePerfmonInfo: error opening RemoteAccess service key"
endif
UpdatePerfmonInfoEnd +=
Debug-Output "UpdatePerfmonInfo: Exit"
return $(Status)
[UpdatePerfmonInfoHelper]
Debug-Output "UpdatePerfmonInfoHelper: entry"
set Status = STATUS_FAILED
Set KeyNull = ""
set ServiceKey = $($0)
set KeyPerformance = $(KeyNull)
OpenRegKey $(ServiceKey) "" $(!RasPerfKeyName) $(!MAXIMUM_ALLOWED)
KeyPerformance
ifstr $(KeyPerformance) == $(KeyNull)
    CreateRegKey $(ServiceKey) {$(!RasPerfKeyName),$(NoTitle),GenericClass} ""
$(!MAXIMUM_ALLOWED) "" KeyPerformance
    OpenRegKey $(ServiceKey) "" $(!RasPerfKeyName) $(!MAXIMUM_ALLOWED)
KeyPerformance
ifstr $(KeyPerformance) == $(KeyNull)
    Debug-Output "Error creating Performance key"
    goto UpdatePerfmonInfoHelperEnd
endif
endif
set NewValueList = +
    {{Library ,$(NoTitle),$(!REG_VT_SZ),$(!RasPerfLibraryName)},+
    {Open, $(NoTitle),$(!REG_VT_SZ),$(!RasPerfOpenFunction)},+

```

```

        {Close, $(NoTitle),$(!REG_VT_SZ),$(!RasPerfCloseFunction)},+
        {Collect, $(NoTitle),$(!REG_VT_SZ),$(!RasPerfCollectFunction)}}
Shell "Utility.Inf", AddValueList, $(KeyPerformance), $(NewValueList)
ifint $($ShellCode) != $(!SHELL_CODE_OK)
    Debug-Output "UpdatePerfmonInfoHelper: error shelling AddValueList"
    goto UpdatePerfmonInfoHelperEnd
endif
set RegistryErrorIndex = $($R0)
Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
    Debug-Output "UpdatePerfmonInfoHelper: AddValueList bombed out"
    goto UpdatePerfmonInfoHelperEnd
endif
CloseRegKey $(KeyPerformance)
set Status = STATUS_SUCCESSFUL
UpdatePerfmonInfoHelperEnd +=
    Debug-Output "UpdatePerfmonInfoHelper: Exit"
    return $(Status)
[RenameRasHubToNdisWan]
    Debug-Output "RenameRasHubToNdisWan: entry"
    set Status = STATUS_FAILED
    Set KeyNull = ""
    OpenRegKey $(!REG_H_LOCAL) "" $(!NetworkCardKeyName) $(!MAXIMUM_ALLOWED)
KeyNetcards
    ifstr $(KeyNetcards) == $(KeyNull)
        Debug-Output "RenameRasHubToNdisWan: could not open Netcards key"
        goto RenameRasHubToNdisWanEnd
    endif
EnumRegKey $(KeyNetcards) NetcardsList
ForListDo $(NetcardsList)
    set KeyName = *($($),1)
    OpenRegKey $(KeyNetcards) "" $(KeyName) $(!MAXIMUM_ALLOWED) Card
    ifstr $(Card) == $(KeyNull)
        Debug-Output "RenameRasHubToNdisWan: could not open netcard key"
        CloseRegKey $(KeyNetcards)
        goto RenameRasHubToNdisWanEnd
    endif
    GetRegValue $(Card), "ProductName" ProductNameInfo
    set CardProductName = *$(ProductNameInfo), 4)
    ifstr(i) $(CardProductName) == $(!ProductRASHUBDIALINName)
        set ThisOption = DIALIN
    else-ifstr(i) $(CardProductName) == $(!ProductRASHUBDIALOUTName)
        set ThisOption = DIALOUT
    else-ifstr(i) $(CardProductName) == $(!ProductRASHUBDIALINIPName)
        set ThisOption = DIALINIP
    else-ifstr(i) $(CardProductName) == $(!ProductRASHUBDIALOUTIPName)
        set ThisOption = DIALOUTIP
    else-ifstr(i) $(CardProductName) == $(!ProductRASHUBDIALINOUTIPXName)
        set ThisOption = DIALINOUTIPX
    else
        goto endloop
    endif
    SetRegValue $(Card) {ProductName, 0, +
        $(!REG_VT_SZ),$(!ProductNDISWAN$(ThisOption)Name)}
    SetRegValue $(Card) {Description, 0, +
        $(!REG_VT_SZ),$(!ProductNDISWANDescription)}
    SetRegValue $(Card) {ServiceName, 0, $(!REG_VT_SZ), +
        $(!ProductNDISWANName)$(KeyName)}
    SetRegValue $(Card) {Title, 0, $(!REG_VT_SZ),+
        "["$(KeyName)"] "$(!ProductNDISWANTitle)}

```

```

OpenRegKey $(Card) "" "NetRules" $(!MAXIMUM_ALLOWED) NetRules
ifstr $(NetRules) == $(KeyNull)
    CloseRegKey $(KeyNetCards)
    CloseRegKey $(Card)
    Debug-Output "RenameRasHubToNdisWan: could not open "$(KeyName)"\
NetRules key"
    goto RenameRasHubToNdisWanEnd
endif
SetRegValue $(NetRules) {InfoOption, 0, +
    $(!REG_VT_SZ), "NDISWAN"}
SetRegValue $(NetRules) {block, 0, +
    $(!REG_VT_MULTI_SZ), $(!NetRuleHardware$
(ThisOption)Block)}
SetRegValue $(NetRules) {class, 0, +
    $(!REG_VT_MULTI_SZ), $(!NetRuleHardware$
(ThisOption)Class)}
SetRegValue $(NetRules) {type, 0, +
    $(!REG_VT_SZ), $(!NetRuleHardware$(ThisOption)Type)}
Set TempProdName = """"$(!ProductNDISWANName)$(KeyName)""""
Set TempBindForm = $(TempProdName)$(!NetRuleHardwareNDISWANBindForm)
SetRegValue $(NetRules) {bindform, 0, $(!REG_VT_SZ), $(TempBindForm)}
CloseRegKey $(NetRules)
endloop=+
    CloseRegKey $(Card)
EndForListDo
CloseRegKey $(KeyNetcards)
set Status = STATUS_SUCCESSFUL
RenameRasHubToNdisWanEnd =+
    Debug-Output "RenameRasHubToNdisWan: Exit"
    return $(Status)
[UpgradeIpxInfo]
Debug-Output "UpgradeIpxInfo: entry"
set PORTSDLGHANDLE = $($0)
set RasProtocolsName = $(!NTN_SoftwareBase)"\Microsoft\Ras\Protocols"
set SapAgentName = $(!NTN_SoftwareBase)"\Microsoft\NWSAPAGENT"
set NwlnkRipName = $(!NTN_SoftwareBase)"\Microsoft\NWLNRIP"
set IpxRouterName = $(!NTN_ServiceBase)"\IpxRouter"
OpenRegKey $(!REG_H_LOCAL) "" +
    $(RasProtocolsName) $(!MAXIMUM_ALLOWED) KeyProtocols
ifstr $(KeyProtocols) != ""
    set fIpxAllowed = 0
    GetRegValue $(KeyProtocols) "fIpxAllowed" IpxList
    ifint $(RegLastError) == 0
        set fIpxAllowed = *$(IpxList), 4)
    endif
    ifint $(fIpxAllowed) != 0
        Debug-Output "UpgradeIpxInfo: RAS is configured for IPX dialin"
        set KeyRouter = ""
        OpenRegKey $(!REG_H_LOCAL) "" +
            $(IpxRouterName) $(!MAXIMUM_ALLOWED) KeyRouter
        ifstr $(KeyRouter) != ""
            CloseRegKey $(KeyRouter)
            Debug-Output "Renaming IpxRouter to NwlnkRip..."
            LibraryProcedure Result $(PORTSDLGHANDLE)
RenameIpxRouterToNwlnkRip
            Shell "" RemoveServiceDependency "RemoteAccess" "IpxRouter"
            Shell "" AddServiceDependency "RemoteAccess" "NwlnkRip"
            Debug-Output "Renaming IpxRouter to NwlnkRip done..."
        endif
    endif
endif

```

```

OpenRegKey $(!REG_H_LOCAL) "" $(!RasIsnRipKeyName) +
$(!MAXIMUM_ALLOWED) KeyService
ifstr $(KeyService) != ""
  OpenRegKey $(KeyService) "" "Parameters" +
$(!MAXIMUM_ALLOWED) KeyParams
  ifstr(i) $(KeyParams) != ""
    GetRegValue $(KeyParams) "NetbiosRouting" NetbiosRoutingInfo
    Ifint $(RegLastError) == $(!REG_ERROR_SUCCESS)
      set NetbiosRouting = *$(NetbiosRoutingInfo), 4)
    else
      set NetbiosRouting = 2
    endif
    set NetbiosRouting = *$(NetbiosRoutingInfo), 4)
    ifint $(NetbiosRouting) == 0
      set NetbiosRouting = 2
    else-ifint $(NetbiosRouting) == 1
      set NetbiosRouting = 3
    endif
    SetRegValue $(KeyParams) {"NetbiosRouting" , 0, $(!
REG_VT_DWORD), $(NetbiosRouting)}
  endif
  OpenRegKey $(KeyService) "" "Parameters\UseRef" +
$(!MAXIMUM_ALLOWED) KeyUseRef
  ifstr(i) $(KeyUseRef) == ""
    ifstr(i) $(KeyParams) != ""
      CreateRegKey $(KeyParams) {"UseRef", 0, GenericClass} +
"" $(!MAXIMUM_ALLOWED) "" KeyUseRef
      CloseRegKey $(KeyParams)
    endif
  endif
  ifstr(i) $(KeyUseRef) != ""
    SetRegValue $(KeyUseRef) {"RAS" , 0, $(!REG_VT_SZ), "1"}
    CloseRegKey $(KeyUseRef)
  endif
  CloseRegKey $(KeyService)
endif
OpenRegKey $(!REG_H_LOCAL) "" $(SapAgentName) +
$(!MAXIMUM_ALLOWED) KeyService
ifstr $(KeyService) == ""
  OpenRegKey $(!REG_H_LOCAL) "" $(!RasIsnSapKeyName) +
$(!MAXIMUM_ALLOWED) KeySap
  Ifstr(i) $(KeySap) != ""
    Shell "utility.inf", RemoveService +
$(!ProductRASISNSAPName) "YES"
    Shell "" InstallIsnSapService
  endif
  CloseRegKey $(KeySap)
else
  CloseRegKey $(KeyService)
endif
OpenRegKey $(!REG_H_LOCAL) "" $(NwlnkRipName) +
$(!MAXIMUM_ALLOWED) KeyService
ifstr $(KeyService) == ""
  OpenRegKey $(!REG_H_LOCAL) "" $(!RasIsnRipKeyName) +
$(!MAXIMUM_ALLOWED) KeyRip
  Ifstr(i) $(KeyRip) != ""
    Shell "" InstallNwlnkRipService
  CloseRegKey $(KeyRip)
else

```

```

        CloseRegKey $(KeyService)
    endif
    OpenRegKey $(!REG_H_LOCAL) "" +
        $(!NTN_ServiceBase)"\NWLNKIPX\Parameters" +
        $(!MAXIMUM_ALLOWED) KeyIpxParameters
    ifstr $(KeyIpxParameters) != $(KeyNull)
        GetRegValue $(KeyIpxParameters), "SingleNetworkActive" +
            SingleNetworkActive
        ifint $(RegLastError) != $(!REG_ERROR_SUCCESS)
            SetRegValue $(KeyIpxParameters) +
                {SingleNetworkActive, 0, $(!REG_VT_DWORD), 1}
        endif
        GetRegValue $(KeyIpxParameters), "DisableDialoutSap" +
            DisableDialoutSap
        ifint $(RegLastError) != $(!REG_ERROR_SUCCESS)
            SetRegValue $(KeyIpxParameters) +
                {DisableDialoutSap, 0, $(!REG_VT_DWORD), 1}
        endif
        GetRegValue $(KeyIpxParameters), "DisableDialinNetbios" +
            DisableDialinNetbios
        ifint $(RegLastError) != $(!REG_ERROR_SUCCESS)
            SetRegValue $(KeyIpxParameters) +
                {DisableDialinNetbios, 0, $(!REG_VT_DWORD), 1}
        endif
        CloseRegKey $(KeyIpxParameters)
    Endif
    else
        Debug-Output "OEMNSVRA.INF: error opening NWLNKIPX\Parameters key"
    endif
endif
CloseRegKey $(KeyProtocols)
else
    Debug-Output "UpgradeIpxInfo: error opening RAS\Protocols key"
endif
Debug-Output "UpgradeIpxInfo: exit"
return
[SaveTcpipInfo]
Debug-Output "SaveTcpipInfo: entry - AddIpInfo = "$($0)
set AddTcpInfo = $($0)
set Status = STATUS_FAILED
Set KeyNull = ""
set RasIpKeyName = $(!NTN_SoftwareBase)"\Microsoft\Ras\Protocols\Ip"
set RasSvrParamKeyName = $(!NTN_ServiceBase)"\RemoteAccess\Parameters"
OpenRegKey $(!REG_H_LOCAL) "" $(RasIpKeyName) $(!MAXIMUM_ALLOWED) RasIpKey
ifstr $(RasIpKey) != $(KeyNull)
    OpenRegKey $(!REG_H_LOCAL) "" $(RasSvrParamKeyName) $(!MAXIMUM_ALLOWED)
KeySrvParams
    ifstr $(KeySrvParams) == $(KeyNull)
        Debug-Output "SaveTcpipInfo: could not open RasSvr Params key"
        CloseRegKey $(RasIpKey)
        return $(Status)
    endif
    ifstr(i) $(AddTcpInfo) == TRUE
        CreateRegKey $(KeySrvParams) {"Ip",$(NoTitle),GenericClass} "" $(!
MAXIMUM_ALLOWED) "" RemoteIpKey
        OpenRegKey $(KeySrvParams) "" "Ip" $(!MAXIMUM_ALLOWED) RemoteIpKey
        ifstr $(RemoteIpKey) != $(KeyNull)
            EnumRegValue $(RasIpKey) NewValueList
            Shell "utility.inf", AddValueList, $(RemoteIpKey), $(NewValueList)

```

```

        CloseRegKey $(RemoteIpKey)
    endif
else
    Debug-Output "SaveTpcipInfo: removing ip info"
    DeleteRegTree $(KeySrvParams) "IP"
endif
CloseRegKey $(RasIpKey)
CloseRegKey $(KeySrvParams)
endif
Debug-Output "SaveTcipipInfo: exit"
set Status = STATUS_SUCCESSFUL
return $(Status)
[SaveIpxInfo]
Debug-Output "SaveIpxInfo: entry RouterInstalled= "$($0)" AddIpxInfo = "$($1)
set RouterInstalled = $($0)
set AddIpxInfo      = $($1)
set Status          = STATUS_FAILED
Set KeyNull        = ""
set RasIpxKeyName  = $(!NTN_SoftwareBase)"\Microsoft\Ras\Protocols\Ipx"
set RasSvrParamKeyName = $(!NTN_ServiceBase)"\RemoteAccess\Parameters"
OpenRegKey $(!REG_H_LOCAL) "" $(RasIpxKeyName) $(!MAXIMUM_ALLOWED) RasIpxKey
ifstr $(RasIpxKey) != $(KeyNull)
    OpenRegKey $(!REG_H_LOCAL) "" $(RasSvrParamKeyName) +
        $(!MAXIMUM_ALLOWED) KeySrvParams
    ifstr $(KeySrvParams) == $(KeyNull)
        Debug-Output "SaveTcipipInfo: could not open RasSvr Params key"
        CloseRegKey $(RasIpxKey)
        return $(Status) $(fRouterInstalled)
    endif
    ifstr(i) $(AddIpxInfo) == TRUE
        CreateRegKey $(KeySrvParams) {"Ipx",$(NoTitle),GenericClass} "" $(!
MAXIMUM_ALLOWED) "" RemoteIpxKey
        OpenRegKey $(KeySrvParams) "" "Ipx" $(!MAXIMUM_ALLOWED) RemoteIpxKey
        ifstr $(RemoteIpxKey) != $(KeyNull)
            EnumRegValue $(RasIpxKey) NewValueList
            Shell "utility.inf", AddValueList, $(RemoteIpxKey), $(NewValueList)
            SetRegValue $(RemoteIpxKey) {RouterInstalled, 0,$(!REG_VT_DWORD), $
(RouterInstalled)}
            CloseRegKey $(RemoteIpxKey)
        endif
    else
        Debug-Output "SaveIpxInfo: removing ipx info"
        DeleteRegTree $(KeySrvParams) "IPX"
    endif
    CloseRegKey $(KeySrvParams)
    CloseRegKey $(RasIpxKey)
endif
Debug-Output "SaveIpxInfo: exit"
set Status = STATUS_SUCCESSFUL
return $(Status)
[AddServiceDependency]
Debug-Output "AddServiceDependency: entry"
set Status = STATUS_FAILED
Set KeyNull = ""
set DependentService = $(!NTN_ServiceBase)\$(($0))
set DependentName = $($0)
set DependOn = $($1)
set ServiceKey = $(KeyNull)
OpenRegKey $(!REG_H_LOCAL) "" $(DependentService)"\Linkage" $(!MAXIMUM_ALLOWED)

```

```

ServiceKey
  ifstr(i) $(ServiceKey) != $(KeyNull)
    GetRegValue $(ServiceKey) "OtherDependencies" ServicesList
    ifint $(RegLastError) != 0
      set ServiceValues = {}
    else
      set ServiceValues = *$(ServicesList),4)
    endif
    debug-output "AddServiceDependency: Old OtherDependencies: "$
(ServiceValues)
    ifstr(i) $(ServiceValues) == {}
      Set ServiceValues = {$(DependOn)}
    else-ifstr(i) $(ServiceValues) == ""
      Set ServiceValues = {$(DependOn)}
    else-ifcontains(i) $(DependOn) in $(ServiceValues)
      return STATUS_SUCCESSFUL
    else
      Set ServiceValues = >$(ServiceValues), $(DependOn))
    endif
    debug-output "AddServiceDependency: New OtherDependencies: "$
(ServiceValues)
    SetRegValue $(ServiceKey) {OtherDependencies, 0,+
      $(!REG_VT_MULTI_SZ), $(ServiceValues)}
    CloseRegKey $(ServiceKey)
    set Status = STATUS_SUCCESSFUL
  else
    Debug-Output "AddServiceDependency: error opening service "$
(DependentService)"\Linkage"
  endif
  set KeyService = $(KeyNull)
  OpenRegKey $(!REG_H_LOCAL) "" $(DependentService) $(!MAXIMUM_ALLOWED)
KeyService
  ifstr $(KeyService) != $(KeyNull)
    set newDependList = {$(DependOn)}
    GetRegValue $(KeyService) "DependOnService" ServiceList
    ifint $(RegLastError) == 0
      Debug-Output "AddServiceDependency: old DependOnService List "$
(ServiceList), 4)
      ForListDo *$(ServiceList),4)
        ifstr(i) $($) != $(DependOn)
          set newDependList = >$(newDependList), $($))
        endif
      EndForListDo
    endif
    GetRegValue $(KeyService) "DependOnGroup" GrpList
    ifint $(RegLastError) == 0
      Debug-Output "AddServiceDependency: old DependOnGroup List "$
(GrpList), 4)
      ForListDo *$(GrpList),4)
        set grp = "+"$($)
        set newDependList = >$(newDependList), $(grp))
      EndForListDo
    endif
    Debug-Output "OEMNSVRA.INF: AddServiceDependency: new Dependency List "$
(newDependList)
    LibraryProcedure Result, $(!LIBHANDLE), SetupChangeServiceConfig, $
(DependentName) $(!SERVICE_NO_CHANGE), $(!SERVICE_NO_CHANGE), $(!
SERVICE_NO_CHANGE), "", "", $(newDependList), "", "", ""
    CloseRegKey $(KeyService)

```

```

else
    Debug-Output "AddServiceDependency: failed to open service linkage key"$
(DependentService)
endif
    Debug-Output "AddServiceDependency: exit"
    return $(Status)
[RemoveServiceDependency]
    Debug-Output "RemoveServiceDependency: entry"
    set Status = STATUS_FAILED
    Set KeyNull = ""
    set DependentService = $(!NTN_ServiceBase)\$(($0))
    set DependentName = $(($0))
    set DependOn = $(($1))
    OpenRegKey $(!REG_H_LOCAL) "" $(DependentService)\Linkage" $(!MAXIMUM_ALLOWED)
ServiceKey
    ifstr(i) $(ServiceKey) != $(KeyNull)
        GetRegValue $(ServiceKey) "OtherDependencies" ServicesList
        ifint $(RegLastError) != 0
            set ServiceValues = {}
        else
            set ServiceValues = *$(ServicesList),4)
        endif
        debug-output "RemoveServiceDependency: old OtherDependencies list:"$
(ServicesList)
        set ServiceValues = *$(ServicesList),4)
        debug-output "ServiceValues: "$(ServiceValues)
        ifcontains(i) $(DependOn) in $(ServiceValues)
            set NewServiceValues = {}
            ForListDo $(ServiceValues)
                ifstr(i) $($) != $(DependOn)
                    set NewServiceValues = >$(NewServiceValues), $($))
                endif
            EndForListDo
            debug-output "RemoveServiceDependency: new OtherDependencies list: "$
(NewServiceValues)
            SetRegValue $(ServiceKey) {OtherDependencies, 0,+
                $(!REG_VT_MULTI_SZ), $(NewServiceValues)}
        else
            endif
        CloseRegKey $(ServiceKey)
        set Status = STATUS_SUCCESSFUL
    else
        Debug-Output "RemoveServiceDependency: error opening service "$
(DependentService)\Linkage"
    endif
    set KeyService = $(KeyNull)
    OpenRegKey $(!REG_H_LOCAL) "" $(DependentService) $(!MAXIMUM_ALLOWED)
KeyService
    ifstr $(KeyService) != $(KeyNull)
        set newDependList = {}
        GetRegValue $(KeyService) "DeleteFlag" DeleteFlagValue
        ifint $(RegLastError) != 0
            GetRegValue $(KeyService) "DependOnService" ServiceList
            ifint $(RegLastError) == 0
                Debug-Output "RemoveServiceDependency: old DependOnService List
"*$(ServiceList), 4)
                ifcontains(i) $(DependOn) in *$(ServiceList),4)
                    ForListDo *$(ServiceList),4)
                        ifstr(i) $($) != $(DependOn)

```



```

        set newDependList = >$(newDependList), $(%)
    endif
EndForListDo
GetRegValue $(KeyService) "DependOnGroup" GrpList
ifint $(RegLastError) == 0
    ForListDo *$(GrpList),4)
        set grp = "+"$(%)
        set newDependList = >$(newDependList), $(grp))
    EndForListDo
endif
Debug-Output "OEMNSVRA.INF:RemoveServiceDependency: new
DependOnService List "$(newDependList)
LibraryProcedure Result, $(!LIBHANDLE), +
    SetupChangeServiceConfig, $(DependentName) +
    $(!SERVICE_NO_CHANGE), $(!SERVICE_NO_CHANGE), +
    $(!SERVICE_NO_CHANGE), "", "", +
    $(newDependList), "", "", ""
endif
endif
endif
CloseRegKey $(KeyService)
else
    Debug-Output "RemoveServiceDependency: failed to open service linkage key"$
(DependentService)
endif
    Debug-Output "RemoveServiceDependency: exit"
    return $(Status)
[QueryUserQuit]
    set Status      = STATUS_FAILED
    set UserAction = CANCEL
    set STF_MB_TEXT = "The changes will not be saved. "+
        "Are you sure you want to exit Setup."
    read-syms ExitWarningDlg$(!STF_LANGUAGE)
    ui start "ExitWarning"
    ifstr(i) $(DLGEVENT) == "YES"
        set Status      = STATUS_SUCCESSFUL
        set UserAction = "OK"
    else-ifstr(i) $(DLGEVENT) == "NO"
        set Status      = STATUS_SUCCESSFUL
        set UserAction = "CANCEL"
    else
    endif
fin_QueryUserQuit = +
    Return $(Status) $(UserAction)
[QueryRasUpgrade]
    set Status      = STATUS_FAILED
    set UserAction = CANCEL
    read-syms RasUpgrade$(!STF_LANGUAGE)
    set Text = $(%)$(Ver)$(%)$(Text1)$(Ver)$(%)$(Text2)$(Text3)
    set STF_MB_TEXT = $(Text)
    read-syms ExitWarningDlg$(!STF_LANGUAGE)
    ui start "RasUpgrade"
    ifstr(i) $(DLGEVENT) == "YES"
        set Status      = STATUS_SUCCESSFUL
        set UserAction = "OK"
    else-ifstr(i) $(DLGEVENT) == "NO"
        set Status      = STATUS_SUCCESSFUL
        set UserAction = "CANCEL"
    else

```

```

endif
fin_QueryRasUpgrade = +
Return $(Status) $(UserAction)
[CP-List]
NBFCP      = "%SystemRoot%\SYSTEM32\RASNBFCP.DLL"
IPCP       = "%SystemRoot%\SYSTEM32\RASIPCP.DLL"
IPXCP      = "%SystemRoot%\SYSTEM32\RASIPXCP.DLL"
PAP        = "%SystemRoot%\SYSTEM32\RASPAP.DLL"
CHAP       = "%SystemRoot%\SYSTEM32\RASCHAP.DLL"
SPAP       = "%SystemRoot%\SYSTEM32\RASSPAP.DLL"
CBCP       = "%SystemRoot%\SYSTEM32\RASCBCP.DLL"
COMPCP     = "%SystemRoot%\SYSTEM32\RASCCP.DLL"
[Files-RemoveList]
RASADMINDLL = $(!STF_WINDOWSSYSPATH)\RASADMIN.DLL
RASGTWYDLL  = $(!STF_WINDOWSSYSPATH)\RASGTWY.DLL
RASGPRXYDLL = $(!STF_WINDOWSSYSPATH)\RASGPRXY.DLL
RASSRVEXE   = $(!STF_WINDOWSSYSPATH)\RASSRV.EXE
RASCTRSDLL  = $(!STF_WINDOWSSYSPATH)\RASCTRS.DLL
RASCTRSINI  = $(!STF_WINDOWSSYSPATH)\RASCTRS.INI
RASCTRMH    = $(!STF_WINDOWSSYSPATH)\RASCTRM.H
RASSPRXYEXE = $(!STF_WINDOWSSYSPATH)\RASSPRXY.EXE
RASSAUTHDLL = $(!STF_WINDOWSSYSPATH)\RASSAUTH.DLL
RASDIALEXE  = $(!STF_WINDOWSSYSPATH)\RASDIAL.EXE
RASPHONEHLP = $(!STF_WINDOWSSYSPATH)\RASPHONE.HLP
RASGLOSSHLP = $(!STF_WINDOWSSYSPATH)\RASGLOSS.HLP
RASAPI32DLL = $(!STF_WINDOWSSYSPATH)\RASAPI32.DLL
RASCAUTHDLL = $(!STF_WINDOWSSYSPATH)\RASCAUTH.DLL
RASADMINHLP = $(!STF_WINDOWSSYSPATH)\RASADMIN.HLP
RASMANDLL   = $(!STF_WINDOWSSYSPATH)\RASMAN.DLL
RASMANEXE   = $(!STF_WINDOWSSYSPATH)\RASMAN.EXE
RASMSGDLL   = $(!STF_WINDOWSSYSPATH)\RASMSG.DLL
RASMXSHELL = $(!STF_WINDOWSSYSPATH)\RASMXS.DLL
RASSERDLL   = $(!STF_WINDOWSSYSPATH)\RASSER.DLL
RASIPXCPDLL = $(!STF_WINDOWSSYSPATH)\RASIPXCP.DLL
RASPPPDLL   = $(!STF_WINDOWSSYSPATH)\RASPPP.DLL
RASPPPENDLL = $(!STF_WINDOWSSYSPATH)\RASPPPEN.DLL
RASPAPDLL   = $(!STF_WINDOWSSYSPATH)\RASPAP.DLL
RASCHAPDLL  = $(!STF_WINDOWSSYSPATH)\RASCHAP.DLL
RASSPAPDLL  = $(!STF_WINDOWSSYSPATH)\RASSPAP.DLL
RASIPCPDLL  = $(!STF_WINDOWSSYSPATH)\RASIPCP.DLL
RASIPHLPDLL = $(!STF_WINDOWSSYSPATH)\RASIPHLP.DLL
RASNBFCPDLL = $(!STF_WINDOWSSYSPATH)\RASNBFCP.DLL
RASNBIPCDLL = $(!STF_WINDOWSSYSPATH)\RASNBIPC.DLL
RASCCPDLL   = $(!STF_WINDOWSSYSPATH)\RASCCP.DLL
RASCBCPDLL  = $(!STF_WINDOWSSYSPATH)\RASCBCP.DLL
ASYNCMACSYS = $(!STF_WINDOWSSYSPATH)\DRIVERS\ASYNCMAC.SYS
NDISWANSYS  = $(!STF_WINDOWSSYSPATH)\DRIVERS\NDISWAN.SYS
RASARPSYS   = $(!STF_WINDOWSSYSPATH)\DRIVERS\RASARP.SYS
[Source Media Descriptions]
1 = "Windows NT Workstation CD-ROM" , TAGFILE = cdrom_w.40
[Signature]
FileType = MICROSOFT_FILE
[GetSignature]
read-syms Signature
return $(FileType)
[ProductType]
STF_PRODUCT = WinNT
STF_PLATFORM = Alpha
[Files-Ras-Admin]

```

1,RASADMIN.EXE , SIZE=434688 , NODELETESOURCE
1,RASSAPI.DLL , SIZE=61952 , NODELETESOURCE
1,RASADMIN.CNT , SIZE=1330
1,RASADMIN.HLP , SIZE=42084
[Files-Ras-Client]
1,RASPHONE.EXE , SIZE=247808 , NODELETESOURCE
1,RASSHELL.DLL , SIZE=68096 , NODELETESOURCE
1,RASAPI16.DLL , SIZE=4512
1,RASAPI32.DLL , SIZE=474624
1,RASCAUTH.DLL , SIZE=93696
1,RASCPL.CPL , SIZE=22016
1,RASDIAL.EXE , SIZE=35328
1,RASGLOSS.CNT , SIZE=2310
1,RASGLOSS.HLP , SIZE=23767
1,RASMON.EXE , SIZE=450560
1,RASPHONE.CNT , SIZE=7381
1,RASPHONE.HLP , SIZE=289828
1,RASSCRPT.DLL , SIZE=221696
[Files-Ras-Common]
1,RASADHLP.DLL , SIZE=23040
1,RASAUTO.DLL , SIZE=295936
1,RASAUTOU.EXE , SIZE=35328
1,RASCBCP.DLL , SIZE=22528
1,RASCCP.DLL , SIZE=28672
1,RASCHAP.DLL , SIZE=73216
1,RASDLG.DLL , SIZE=1073152
1,RASIPCP.DLL , SIZE=50688
1,RASIPHLP.DLL , SIZE=95232
1,RASIPXCP.DLL , SIZE=54272
1,RASMAN.DLL , SIZE=225280
1,RASMAN.EXE , SIZE=22528
1,RASMSG.DLL , SIZE=33280
1,RASMXS.DLL , SIZE=71168
1,RASNBFCP.DLL , SIZE=48128
1,RASNBIPC.DLL , SIZE=17920
1,RASPAP.DLL , SIZE=39424
1,RASPPPEN.DLL , SIZE=169472
1,RASSER.DLL , SIZE=50688
1,RASSPAP.DLL , SIZE=45568
1,RASTAPI.DLL , SIZE=101376
[Files-Ras-Drivers]
1,ASYNCMAC.SYS , SIZE=130208
1,NDISTAPI.SYS , SIZE=22432
1,NDISWAN.SYS , SIZE=181728
1,RASACD.SYS , SIZE=31328
1,RASARP.SYS , SIZE=46432
[Files-Ras-Inf]
modem = 1,MODEM.INF , SIZE=999 , NODELETESOURCE
pad = 1,PAD.INF , SIZE=999 , NODELETESOURCE
rasico = 1,RAS.ICO , SIZE=999 , NODELETESOURCE
rasread = 1,RASREAD.TXT , SIZE=999 , NODELETESOURCE
switch = 1,SWITCH.INF , SIZE=999 , NODELETESOURCE
[Files-Ras-Scp]
cis = 1,CIS.SCP , SIZE=999 , NODELETESOURCE
pppmenu = 1,PPPMENU.SCP , SIZE=999 , NODELETESOURCE
scriptdoc = 1,SCRIPT.DOC , SIZE=999 , NODELETESOURCE
slip = 1,SLIP.SCP , SIZE=999 , NODELETESOURCE
slipmenu = 1,SLIPMENU.SCP , SIZE=999 , NODELETESOURCE
[Files-Ras-Server]

