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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"
    NetRuleRASCClass = "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"
    ProductRASMANImagePath = "%SystemRoot%\system32\rasman.exe"
    ProductRASMANSvcType = "service"
    NetRuleRASMANNClass = "classRasManager ""basic""
    NetRuleRASMANNType = "RasManager classRasManager"
    NetRuleRASMANNUse = $(ProductRASMANSvcType)
    NetRuleRASMANNBindForm = ""RasManager"" yes no container"
    NetRuleRASMANNBindable = ""
    !ProductRASARPName = "RasArp"
    !ProductRASARPImagePath = "\SystemRoot\system32\drivers\rasarp.sys"
    !ProductRASISNRIPName = "NwlnkRip"
    !ProductRASISNSAPName = "NwSapAgent"
    !ProductRASISNRIPImagePath = "\SystemRoot\system32\drivers\nwlnkrip.sys"

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!ProductRASISNSAPIImagePath = "%SystemRoot%\system32\services.exe"
!ProductRASAUTODIALName = "RasAuto"
!ProductRASAUTODIALImagePath = "%SystemRoot%\system32\rasman.exe"
!ProductRASAUTODIALSvcType = "service"
!ProductRASACDName = "RasAcd"
!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"
!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",+

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        "ipxTransport ndisWanAdapterDialInIP",+
        "lanmanWorkstation ndisWanAdapterDialInIP"}
!NetRuleHardwareDIALOUTType      = "ndiswandialout ndisWanAdapterDialOut"
!NetRuleHardwareDIALOUTClass     = {"ndisWanAdapterDialOut basic"}
!NetRuleHardwareDIALOUTBlock     = {"ipxTransport ndisWanAdapterDialOut"}
!NetRuleHardwareDIALOUTIPIType   = "ndiswandialoutIP"
ndisWanAdapterDialOutIP"
!NetRuleHardwareDIALOUTIPClass   = {"ndisWanAdapterDialOutIP basic"}
!NetRuleHardwareDIALOUTIPBlock   = {"ipxTransport ndisWanAdapterDialOutIP",
+
        "nbftTransport ndisWanAdapterDialOutIP"}
!NetRuleHardwareDIALINOUTIPXType = "ndiswandialinoutIPX"
ndisWanAdapterDialInOutIPX"
!NetRuleHardwareDIALINOUTIPXClass = {"ndisWanAdapterDialInOutIPX basic"}
!NetRuleHardwareDIALINOUTIPXBlock = {"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"
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)"\"$(!

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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"
    !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)

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[ReturnOptions]
    set Status          = STATUS_FAILED
    set OptionList      = {}
    set OptionTextList = {}
    set LanguageList = ^(LanguagesSupported, 1)
    Ifcontains(i) $(%) in $(LanguageList)
        goto returnoptions
    Else
        set Status = STATUS_NOLANGUAGE
        goto finish_ReturnOptions
    Endif
returnoptions = +
    set OptionList      = ^(Options, 1)
    set OptionTextList = ^(OptionsText$(%), 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" 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)

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        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)
    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)

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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 $(StartLabel)
InstallRas = +
StartWait
Debug-Output "In InstallRas Section"
Debug-Output "Origin is "$(!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)

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        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
    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 +=

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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
  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 $(subroutn.inf) 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 $(subroutn.inf) 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)

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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)
    endif
endif

```

```

        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
    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
  set RegistryErrorIndex = $($R0)
  Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"

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```

        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"
    goto ShellCodeError
endif
set RegistryErrorIndex = $($R0)
CloseRegKey $(SoftNetRuleKey)
Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
    CloseRegKey $(SoftServiceKey)

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        CloseRegKey $(SoftLinkageKey)
        CloseRegKey $(SoftParamsKey)
        Debug-Output "DoRasSvr: Registry Error "$(RegistryErrorIndex)
        goto fatalregistry
    endif
    set RasDependencies = {"LanmanServer","RasMan"}
    OpenRegKey $(!REG_H_LOCAL) "" $(!NTN_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},+
        {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),

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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 "" InstallRasAcService
ifint $(ShellCode) != $(SHELL_CODE_OK)
    Debug-Output "Error shelling InstallRasAcService"
    goto ShellCodeError
endif
ifstr(i) $($R0) != STATUS_SUCCESSFUL
    Debug-Output "Error from InstallRasAcService"
    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 $(SoftNetRuleKey)
    goto fatalregistry
endif
set NewValueList = +
(ThisOption)Class}},+
    {type,$(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

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```

        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)}, +

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        {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)}, +

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        {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
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) == $(!REG_ERROR_SUCCESS)
                    set MediaTypeValue = *$(MediaType),4)
                    set MediaValue = >$(MediaValue), $(MediaTypeValue))
                endif
                CloseRegKey $(KeyMedia)
            endif
        EndForListDo
        CloseRegKey $(KeyOtherMedia)
    else
        Debug-Output "oemnsvra.inf: Other Media not configured"
    endif
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)

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```

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
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)

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```

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 = $(!NetRuleHardwareDIALINIPClass)
    set AdapterBlock = $(!NetRuleHardwareDIALINIPBlock)
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 = $(!NetRuleHardwareDIALOUTIPClass)
    set AdapterBlock = $(!NetRuleHardwareDIALOUTIPBlock)
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 RemovedialinoutIpList = {}
    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) == $(!ProductNDISWANDIALINName)
    set RemoveDialinList = >$(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
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.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) == $(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.INF: shell Findservice failed"
    goto ShellCodeError
endif
ifstr(i) $($R0) != NO_ERROR
    Debug-Output "OEMNSVRA.INF: 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
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
    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
    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
    OpenRegKey $(!REG_H_LOCAL) "" +
        $(!NTN_ServiceBase)"\NWLNKIPX\Parameters" +
        $(!MAXIMUM_ALLOWED) KeyIpxParameters
    ifstr $(KeyIpxParameters) != $(KeyNull)
        GetRegValue $(KeyIpxParameters), "SingleNetworkActive" +
            SingleNetworkActive
    endif
endif

```

```

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
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
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
    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

```

```

key."
    Debug-Output "OEMNSVRA.INF: error opening SOFTWARE\RasMan\CurrentVersion
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 = {}

```



```

        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 "" RemoveRasAcadService
Shell "" InstallRasAcadService
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

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    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
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

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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)

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        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),$(!REG_VT_SZ),$

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(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)

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        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

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[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"

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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"

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        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 +
                    $(!STF_WINDOWSSYSPATH)"\RAS\""$($
                set STF_RENAME = "MODEM.NEW"
                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
    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))

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set RemoveList = >$(RemoveList), #(Files-RemoveList, RASSETUPHLP, 1))
set RenameList = >$(RenameList), #(Files-RemoveList, RASRESDDL, 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 "$(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 $(!
STF_WINDOWSSYSPATH)"\"$(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

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        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
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, RASCTRMNH, 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, RASMXSDDL, 1))
    set RemoveList = >($RemoveList, #(Files-RemoveList, RASSERDLL, 1))
    set RemoveList = >($RemoveList, #(Files-RemoveList, RASIPXCPDLL, 1))
    set RemoveList = >($RemoveList, #(Files-RemoveList, RASPPDLL, 1))
    set RemoveList = >($RemoveList, #(Files-RemoveList, RASPPENDLL, 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, 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, RASPPDLL, 1))
        set RemoveList = >$(RemoveList), #(Files-RemoveList, RASPPENDLL,
1))
        set RemoveList = >$(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 = >$(RemoveList), #(Files-RemoveList, RASCBCPDLL, 1))
        set RemoveList = >$(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 "$($)"
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
  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

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```

        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

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```

    ifint $(RegLastError) == 0
        set NbfNetAccess = *$(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 $(NetcardsList)
        set KeyName = *$(KeyNull),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) != $(!REG_ERROR_SUCCESS)
                Debug-Output "IsNdisWanBHAdapterInstalled: ProductName not
found."
            else
                set CardProductName = *$(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)},+
    {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)

```

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set TempProdName = """"$(!Product$(ThisOption)Name)$(AdapterNumber)""""
set TempBindForm = $(TempProdName)$(!NetRuleHardwareBHBindForm)
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), +
    $(!ProductRASARPImpagePath), +
    "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
  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)
[InstallRasAcdService]
set Status = STATUS_SUCCESSFUL
set KeyNull = ""
Debug-Output "InstallRasAcdService entry"
OpenRegKey $(!REG_H_LOCAL) "" $(!RasAcdKeyName) $(!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: InstallRasAcdService: Registry error
create service"
        return STATUS_FAILED
    endif
endif
Debug-Output "InstallRasArpService exit"
return $(Status)
[RemoveRasAcdService]
set Status = STATUS_SUCCESSFUL
set KeyNull = ""
Debug-Output "RemoveRasAcdService entry"
OpenRegKey $(!REG_H_LOCAL) "" $(!RasAcdKeyName) $(!MAXIMUM_ALLOWED)
KeyService
Ifstr(i) $(KeyService) != $(KeyNull)
    Shell "utility.inf", RemoveService $(!ProductRASACDName) "YES"
    ifint $($ShellCode) != $(!SHELL_CODE_OK)
        Debug-Output "OEMNSVRA.INF: RemoveRasAcdService : ShellCode error"
        return STATUS_FAILED
    endif
    set RegistryErrorIndex = $($R0)
    Ifstr(i) $(RegistryErrorIndex) != NO_ERROR
        Debug-Output "OEMNSVRA.INF: RemoveRasAcdService: Registry error: "

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        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

```



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        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 "oemnsrvr.inf" InstallOption $(!STF_LANGUAGE) "NWLNRIP" +
        $(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 "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 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
else
    Debug-Output "WritePPPPParameters: error opening RasMan key"
    goto UpdateCPListEnd
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
CloseRegKey $(KeyRasManPPP)
set Status = STATUS_SUCCESSFUL
WritePPPPParametersEnd =+
Debug-Output "WritePPPPParameters: exit"
return $(Status)
[UpdateCPList]
Debug-Output "UpdateCPList: entry"
Set Status = STATUS_FAILED
set KeyNull = ""
set RasManPPPKeyName = $(!NTN_ServiceBase)"\RasMan\PPP"
Shell "" WritePPPPParameters
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 $(CPList)
        ifcontains(i) $($) not-in $(CurrentCPList)
            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 "UpdateCPList:AddValueList bombed out"
                    goto UpdateCPListEnd
                endif
                set RegistryErrorIndex = $($R0)
                Ifstr(i) $(RegistryErrorIndex) != "NO_ERROR"
                    goto UpdateCPListEnd
                endif
                CloseRegKey $(KeyCp)
            else
                Debug-Output "UpdateCPList:error creating key"
            endif
        endif
    endforlistdo
    CloseRegKey $(KeyRasManPPP)
else
    Debug-Output "UpdateCPList:error opening RASMAN\PPP key"
    goto UpdateCPListEnd
endif
set Status = STATUS_SUCCESSFUL
UpdateCPListEnd =+
Debug-Output "UpdateCPList: 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 $(KeyCurrentVersion) == ""
    Debug-Output "OEMNSVRA.INF:UpdateSoftwareType: couldn't open "$

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```

(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) {EnabledDHCP, 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), {""}}
                endif
            endif
        EndForListDo
    endif
endif

```

```

        SetRegValue $(KeyNdisWan) {LLInterface, 0,+
                                $(!REG_VT_SZ), $(LLInterface)}
        SetRegValue $(KeyNdisWan) {EnabledDHCP, 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
    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), $(newGroup))
                        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", "nwlkipx"}
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)
                                        ifstr(i) $(CardProductName) != $(!ProductPCIMACName)
                                        GetRegValue $(Card), "Manufacturer" Manufacturer
                                        Ifint $(RegLastError) == $(!REG_ERROR_SUCCESS)
                                            ifstr(i) *$(Manufacturer), 4) != "Digiboard"
                                                Debug-Output "found installed netcard"

```



```

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 "Upgradeselectdprotocols: 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
    endif

```

```

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
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
  endif
endif

```

```

        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
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
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) $($R0) != 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) $($R0) == 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) $(i) != "ISDN"
            set NewMedias = >$(NewMedias), $(i)
        endif
    endforlistdo
    set NewMedias = >$(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

```



```

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) {InfOption, 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
        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 "SaveTcpipInfo: 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 "SaveTcpipInfo: 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)\$(%)
    set DependentName = $(%)
    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 = $($0)$($Ver)$($1)$($Text1)$($Ver)$($2)$($Text2)$($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"
    endif
endif

```

```

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
RASCTRNMH   = $(!STF_WINDOWSSYSPATH)\RASCTRNM.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
RASSAPDLL   = $(!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 = I386
[Files-Ras-Admin]
1,RASADMIN.EXE , SIZE=126224 , NODELETESOURCE
1,RASAPI.DLL , SIZE=22800 , NODELETESOURCE
1,RASADMIN.CNT , SIZE=1330
1,RASADMIN.HLP , SIZE=42084

```

[Files-Ras-Client]

1,RASPHONE.EXE , SIZE=52496 , NODELETESOURCE  
1,RASSHELL.DLL , SIZE=18704 , NODELETESOURCE  
1,RASAPI16.DLL , SIZE=4512  
1,RASAPI32.DLL , SIZE=127248  
1,RASCAUTH.DLL , SIZE=28432  
1,RASCPL.CPL , SIZE=10512  
1,RASDIAL.EXE , SIZE=17168  
1,RASGLOSS.CNT , SIZE=2310  
1,RASGLOSS.HLP , SIZE=23767  
1,RASMON.EXE , SIZE=117520  
1,RASPHONE.CNT , SIZE=7381  
1,RASPHONE.HLP , SIZE=289828  
1,RASSCRPT.DLL , SIZE=54544

[Files-Ras-Common]

1,RASADHLP.DLL , SIZE=10000  
1,RASAUTO.DLL , SIZE=73488  
1,RASAUTOU.EXE , SIZE=12048  
1,RASCBCP.DLL , SIZE=9488  
1,RASCCP.DLL , SIZE=11024  
1,RASCHAP.DLL , SIZE=24848  
1,RASDLG.DLL , SIZE=347408  
1,RASIPCP.DLL , SIZE=16656  
1,RASIPHLP.DLL , SIZE=27920  
1,RASIPXCP.DLL , SIZE=22800  
1,RASMAN.DLL , SIZE=61200  
1,RASMAN.EXE , SIZE=8976  
1,RASMSG.DLL , SIZE=28944  
1,RASMXS.DLL , SIZE=26896  
1,RASNBFCP.DLL , SIZE=15632  
1,RASNBIPC.DLL , SIZE=8976  
1,RASPAP.DLL , SIZE=13584  
1,RASPPPEN.DLL , SIZE=49936  
1,RASSER.DLL , SIZE=16656  
1,RASSPAP.DLL , SIZE=15120  
1,RASTAPI.DLL , SIZE=33040

[Files-Ras-Drivers]

1,ASYNCMAC.SYS , SIZE=39152  
1,NDISTAPI.SYS , SIZE=8496  
1,NDISWAN.SYS , SIZE=57104  
1,RASACD.SYS , SIZE=8112  
1,RASARP.SYS , SIZE=12912

[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]

1,RASADMIN.DLL , SIZE=18192  
1,RASCTRS.DLL , SIZE=15120  
1,RASGPRXY.DLL , SIZE=15120  
1,RASGTWY.DLL , SIZE=47888  
1,RASSAUTH.DLL , SIZE=28432  
1,RASSPRXY.EXE , SIZE=9488  
1,RASSRV.EXE , SIZE=69392

[Files-Resource]

1,RASCFG.DLL , SIZE=154384 , NODELETESOURCE

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1,RASFIL32.DLL , SIZE=12560 , NODELETESOURCE
1,RASSETUP.CNT , SIZE=99 , NODELETESOURCE
1,RASSETUP.HLP , SIZE=16757 , NODELETESOURCE
[LanguagesSupported]
    ENG
[OptionsTextENG]
    RAS = "Remote Access Service"
[FileConstantsENG]
    RasGroup      = "Remote Access Service"
    RasPhone      = "Remote Access"
    RasMon         = "Remote Access Monitor"
    RasAdmin       = "Remote Access Admin"
    ReadMe         = "Read Me"
    RasInternet   = "Remote Access and the Internet"
    RasHelp        = "Remote Access Help"
    ProCaption     = "Remote Access Service Setup"
    ProCancel      = "Cance&l"
    ProCancelMsg   = "Remote Access Service is not correctly installed. "+
                    "Are you sure you want to cancel copying files?"
    ProCancelCap   = "Remote Access Service Setup Message"
    ProText1       = "Copying:"
    ProText2       = "To:"
    Error          = "Unable to determine proper source disk location; copy cannot
be performed."
    FunctionTitle  = "Remote Access Setup"
    ProductRASDescription = "Enables users to work offsite as
though connected directly to a network."
    ProductRASTitle = "Remote Access Service"
    ProductRASDisplayName = "Remote Access Service"
    ProductRASMDescription = "Windows NT Remote Access Connection
Manager"
    ProductRASMTitle = "Remote Access Connection Manager"
    ProductRASMDisplayName = "Remote Access Connection Manager"
    !ProductRASAUTODIALDescription = "Windows NT Remote Access Autodial
Manager"
    !ProductRASAUTODIALDisplayName = "Remote Access Autodial Manager"
    !ProductRASAUTODIALTitle = "Remote Access Autodial Manager"
    !ProductNDISWANDescription = "Windows NT Remote Access WAN
Wrapper"
    !ProductNDISWANTitle = "Remote Access WAN Wrapper"
    !ProductNDISWANDisplayName = "Remote Access WAN Wrapper"
    ProductRASASYMACDescription = "Windows NT Remote Access AsyMac
Adapter Driver"
    ProductRASASYMACTitle = "Remote Access Mac"
    ProductRASASYMACDisplayName = "Remote Access Mac"
    ProductRASSVRDescription = "Windows NT Remote Access NetBios
Gateway"
    ProductRASSVRTitle = "Remote Access Server Service"
    ProductRASSVRDisplayName = "Remote Access Server"
    !ProductRASISNRIPTitle = "Remote Access NWLNKRIP Service"
    !ProductRASISNRIPDisplayName = "Remote Access NWLNKRIP Service"
    !ProductRASISNSAPTtitle = "Remote Access NWLNKSAP Service"
    !ProductRASISNSAPDisplayName = "Remote Access NWLNKSAP Service"
    !ProductRASARPTitle = "Remote Access ARP Service"
    !ProductRASARPDDisplayName = "Remote Access ARP Service"
    !ProductRASACDDisplayName = "Remote Access Auto Connection
Driver"
    !ProductNDISTAPIDisplayName = "Microsoft NDIS TAPI driver"
[DialogConstantsENG]
    Help          = "&Help"
    Exit          = "E&xit"
    OK            = "OK"
    HelpContext   = ""
    Continue      = "C&ontinue"

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Cancel      = "C&ancel"
[ExitWarningDlgENG]
  DlgType    = "MessageBox"
  STF_MB_TITLE = "Remote Access Service Setup"
  STF_MB_TYPE  = 3
  STF_MB_ICON  = 5
  STF_MB_DEF   = 2
[SetupAbortDlgENG]
  DlgType    = "Info"
  DlgTemplate = "RESTART"
  Caption    = "Remote Access Service Setup"
  DlgText    = "Setup for Remote Access Service failed."$(!LF)$(!LF)+
              "Please choose Exit to exit back to the Windows NT System."
  Windows    = "E&xit to &Windows NT"
[AbortMessageENG]
  AbortText  = "Aborting Remote Access Setup. Please restart the system "+
              "to fix the problem."
[ShellCodeErrorMsgENG]
  DlgType    = "MessageBox"
  STF_MB_TITLE = "Error: "$(FunctionTitle)
  STF_MB_TEXT  = "An error occured running the shell command. "+
              "Please restart the system to fix the problem."
  STF_MB_TYPE  = 1
  STF_MB_ICON  = 3
  STF_MB_DEF   = 1
[SuccessfulInstallENG]
  Success    = "Remote Access Service has been successfully installed. "$(!LF)$(!
LF)+
              "Use Remote Access Admin or User Manager in the Administrative "+
              "Tools Folder to assign Remote Access permissions to users."
[MsgDlgENG]
  DlgType    = "MessageBox"
  STF_MB_TYPE  = 1
  STF_MB_ICON  = 2
  STF_MB_DEF   = 2
[StatusUpdatingRegistryENG]
  CreatingRas      = "Please wait while Remote Access is installed..."
  WritingRasParams = "Writing Remote Access parameters..."
  WritingRasParamsAdd = "Writing Remote Access parameters...Adding RAS
binding "
  WritingRasParamsRemove = "Writing Remote Access parameters...Removing RAS
binding "
  RemovingRas      = "Removing Remote Access Service..."
  RemovingAdapters = "Remote Access Setup: Removing RAS binding "
  RemovingResources = "Removing Remote Access resource files..."
  UpdatingRas      = "Please wait while Remote Access is updated..."
[StatusDeterminingConfigENG]
  ReadingConfig    = "Determining current configuration ..."
[StatusCopyingResENG]
  Status = "Copying DLLs and INF files to disk ..."
[NonFatalError1ENG]
  NonFatal = "Setup cannot function properly without a user name."
[FatalErrorMemENG]
  Fatal = "Not enough memory is available. Remote Access requires atleast 2
Meg."
[NoConfigAdminENG]
  NoConfigAdmin = "The only component installed currently is RasAdmin which "+
                 "cannot be configured."
[VerExistsENG]
  Ver = " version "
  Text1 = " is already installed. "
[NetworkConfigErrorENG]
  Text1 = "Setup encountered an error while determining the "+
          "network configuration. Please make sure that "+

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        "the network is properly configured before attempting "+
        "to install Remote Access Service."
Text2 = "The Microsoft Windows Workstation and Server Service must be "+
        "installed for proper operation of Remote Access Service."$(!LF)$(!
LF)+
        "To install Workstation or Server Service:"$(!LF)$(!LF)+
        "1. Invoke 'Network' control panel applet."$(!LF)+
        "2. Choose Add Software and select Workstation or Server from the
list."
[NoPortsConfiguredENG]
    NoPortsError =+
        "Remote Access is not configured with any ports. "+
        "You have an invalid RAS configuration. "+
        "Please configure Remote Access Service and add "+
        "ports using the Network option in Control Panel "+
        "after restarting the system."
[QueryInstalledProtocolsErrorENG]
    Text = "Setup encountered an error while determining the "+
        "installed network protocols. Try restarting the "+
        "system to correct the problem. Contact your system "+
        "administrator, if the problem persists."
[RasUpgradeENG]
    Ver = " ver "
    Text1 = " exists on the system. Are you sure you want to upgrade to"
    Text2 = "?."
    Text3 = "Selecting YES will result in the new version replacing the old."
[InstallLoopbackENG]
Message = "RAS Setup has discovered that you have configured one or more "+
        "ports to receive calls and your computer does not have a "+
        "network adapter installed. Setup will install the MS Loopback "+
        "Adapter to enable remote clients to use resources on this computer."
Error = "RAS setup encountered an error while invoking the OEMNADLB.INF file
"+
        "to install the MS Loopback Adapter. You can install the Loopback
Adapter "+
        "from the Network option in Control Panel after restarting the system.
"+
        "Remote Clients will not be able to dialin and use resources on this
computer "+
        "till you install the Loopback Adapter."
[NoNetbeuiDlgENG]
    NoNetbeuiWarning =+
        "The NetBEUI protocol is either not installed or not configured "+
        "for Remote Access. NetBEUI provides the fastest throughput to "+
        "NetBIOS resources when accessed over a Remote Access connection. "+
        "If clients will access remote NetBIOS resources, configure RAS "+
        "to use NetBEUI. " $(!LF)$(!LF)+
        "You can add the NetBEUI protocol to your computer using the "+
        "Network option in Control Panel."
[NoProtocolsDlgENG]
    NoProtocolsWarning =+
        "Remote Access is not configured with any network protocols. "+
        "You have an invalid RAS configuration. "+
        "You can configure RAS to support "+
        "network protocols using the Network option in Control Panel "+
        "after restarting the system."
[UpgradeErrorsENG]
UpgradeIsdnInfoError = "Remote Access Setup encountered an error while "+
        "updating the ISDN information. Please remove and "+
        "reinstall Remote Access to ensure proper operation."
[RasErrorsENG]
ErrorBadArgs = "OEMNSVRA.INF specified invalid number of arguments "+
        "to RASCFG.DLL. Remote Access Setup will terminate now."
ErrorNoPorts = "Dial-Up Networking setup failed to detect any installed "+

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        "ports on this computer. Setup will terminate now."
ErrorUnknown = "Dial-Up Networking setup encountered an unknown failure "+
               "and will terminate now. Please contact your administrator "+
               "to determine the cause of the problem."
InvalidMode   = "Dial-Up Networking setup was invoked with an invalid "+
               "RasInstallMode environment variable. It should be set to "+
               "either install or configure. The value currently passed to "+
               "setup is "$(RasInstallMode)"."
UnableToLoadSetupdll = "Dial-Up Networking setup was unable to load setupdll.dll
"+
                    "in the system32 directory. Please make sure this file is
"+
                    "present on your computer. Setup will now exit. "
UnableToLoadNcpaCpl = "Dial-Up Networking setup was unable to load ncpa.cpl "+
                    "in the system32 directory. Please make sure this file is
"+
                    "present on your computer. Setup will now exit. "
NoProductType = "Dial-Up Networking setup was unable to determine your "+
               "computer product type. Make sure that the following registry "+
               "value exists on your computer. "+
               "HEKY_LOCAL_MACHINE\System\CurrentControlSet\Control\
ProductOptions. "+
               "Setup will now exit."
UnknownProductType = "Dial-Up Networking setup detected an unsupported product
type "$(TempProductType)". "+
                    "Make sure that the following registry value
HEKY_LOCAL_MACHINE\System\CurrentControlSet\Control\ProductOptions\ProductType
"+
                    "is one of the following valid values WinNT, LanManNT or
ServerNT. Setup will now exit."
[Billboard1ENG]
Status = "Remote Access Setup is installing the NetBEUI transport..."
[Billboard2ENG]
Status = "Remote Access Setup is installing the TCP/IP transport..."
[Billboard3ENG]
Status = "Remote Access Setup is installing NWLINK and related services..."

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