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# =====
# Helpers
# =====
function Get-Msg {
    param(
        [string]$FR,
        [string]$EN,
        [bool]$IsFrench = $true    # French by default
    )
    if ($IsFrench) { return $FR } else { return $EN }
}
# =====
# Network
# =====
function Remove-AllNetworkDrives {
    $network = New-Object -ComObject "WScript.Network"
    $drives = $network.EnumNetworkDrives()
    $count = $drives.Count()
    if ($count -eq 0) { return }
    # Capture all drive letters BEFORE removing anything
    $driveList = @()
    for ($i = 0; $i -lt $count; $i += 2) {
        $driveList += $drives.Item($i)
    }
    foreach ($drive in $driveList) {
        try {
            $network.RemoveNetworkDrive($drive, $true, $true)
        } catch {
            # Silently ignore - drive may already be disconnected
        }
    }
}
function Wait-NetworkReady {
    param(
        [string]$UNCPath,
        [int]$TimeoutSeconds = 30,
        [int]$RetryInterval = 2
    )
    $deadline = (Get-Date).AddSeconds($TimeoutSeconds)
    while ((Get-Date) -lt $deadline) {
        if (Test-Path $UNCPath -ErrorAction SilentlyContinue) {
            return $true
        }
        Start-Sleep -Seconds $RetryInterval
    }
    return $false
}
function Connect-Drive {
    param(
        [string]$Drive,
        [string]$Path,
        [string]$Description,
        [bool]$IsFrench = $true,
        [int]$NetworkTimeout = 30, # seconds to wait for UNC path
        [int]$RetryInterval = 2    # seconds between retries
    )
    # Wait until the UNC share is reachable before attempting to map
    $ready = Wait-NetworkReady -UNCPath $Path `
        -TimeoutSeconds $NetworkTimeout `
        -RetryInterval $RetryInterval
    if (-not $ready) {
        $title = Get-Msg -FR "Erreur réseau" -EN "Network error" -IsFrench $IsFrench
        $msg = Get-Msg `
            -FR "Le partage réseau est inaccessible après ${NetworkTimeout}s :`n$Path" `
            -EN "Network share unreachable after ${NetworkTimeout}s:`n$Path" `
            -IsFrench $IsFrench
        [System.Windows.Forms.MessageBox]::Show($msg, $title,
            [System.Windows.Forms.MessageBoxButtons]::OK,
            [System.Windows.Forms.MessageBoxIcon]::Warning)
        return
    }
    $network = New-Object -ComObject "WScript.Network"
    try {
        $network.MapNetworkDrive($Drive, $Path)
        $shell = New-Object -ComObject "Shell.Application"
        $ns = $shell.Namespace("$Drive\")
        if ($null -ne $ns) {
            $ns.Self.Name = $Description
        }
    } catch {

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$title = Get-Msg -FR "Erreur" -EN "Error" -IsFrench $IsFrench
$msg = Get-Msg `
    -FR "Connexion lecteur $Drive ($Path)`n$($_.Exception.Message)" `
    -EN "Connecting drive $Drive ($Path)`n$($_.Exception.Message)" `
    -IsFrench $IsFrench
[System.Windows.Forms.MessageBox]::Show($msg, $title,
[System.Windows.Forms.MessageBoxButtons]::OK,
[System.Windows.Forms.MessageBoxIcon]::Error)
}
}
function Resolve-NetworkDrive {
param([string]$DriveLetter)
$network = New-Object -ComObject "WScript.Network"
$drives = $network.EnumNetworkDrives()
for ($i = 0; $i -lt $drives.Count(); $i += 2) {
    if ($drives.Item($i) -eq $DriveLetter.ToUpper()) {
        return $drives.Item($i + 1)
    }
}
return ""
}
# =====
# Active Directory
# =====
function Get-LoggedOnUserADInfo {
try {
    $net = New-Object -ComObject WScript.Network
    $user = $net.UserName
    if (-not $user) { return $null }
    # Extract sAMAccountName (in case DOMAIN\user format is returned)
    $sam = ($user -split '\\')[-1]
    # Get default naming context from AD
    $root = [ADSI]"LDAP://RootDSE"
    $base = "LDAP://$($root.defaultNamingContext)"
    # Create LDAP searcher
    $searcher = New-Object System.DirectoryServices.DirectorySearcher
    $searcher.SearchRoot = $base
    $searcher.Filter = "(&(objectClass=user)(sAMAccountName=$sam))"
    $searcher.PageSize = 1
    # Load only required properties for better performance
    $searcher.PropertiesToLoad.AddRange(@(
        "displayname",
        "homedrive",
        "homedirectory",
        "distinguishedname"
    ))
    $result = $searcher.FindOne()
    if ($result -and $result.Properties) {
        $p = $result.Properties
        return [PSCustomObject]@{
            SamAccountName = $sam
            DisplayName = $p["displayname"] | Select-Object -First 1
            HomeDrive = $p["homedrive"] | Select-Object -First 1
            HomeDirectory = $p["homedirectory"] | Select-Object -First 1
            DistinguishedName = $p["distinguishedname"] | Select-Object -First 1
        }
    }
} catch {
    Write-Warning "Error in Get-LoggedOnUserADInfo: $_"
}
return $null
}
# =====
# Disk
# =====
function Test-DiskOccupation {
param(
    [string]$DrivePath,
    [int]$Ratio,
    [int]$NetworkTimeout = 5, # Max seconds to wait for drive access
    [int]$PopupTimeout = 10, # Seconds before popup auto-closes
    [bool]$IsFrench = $true
)
if ([string]::IsNullOrEmpty($DrivePath)) { return }
# Run FSO in a background job to avoid blocking on unreachable network drives
$job = Start-Job -ScriptBlock {
    param($path)
    $fso = New-Object -ComObject "Scripting.FileSystemObject"
    if (-not $fso.FolderExists($path)) { return $null }
    $drive = $fso.GetDrive($fso.GetDriveName($path))
}
}

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        if ($drive.TotalSize -eq 0) { return $null }
        return @{ FreeSpace = $drive.FreeSpace; TotalSize = $drive.TotalSize }
    } -ArgumentList $DrivePath
    $completed = Wait-Job $job -Timeout $NetworkTimeout
    if (-not $completed) {
        Remove-Job $job -Force
        return # Drive unreachable within timeout
    }
    $result = Receive-Job $job
    Remove-Job $job
    if (-not $result) { return }
    $total = $result.TotalSize
    $used = $total - $result.FreeSpace
    $usedPct = ($used / $total) * 100
    $usedMB = [math]::Round($used / 1MB)
    $totalMB = [math]::Round($total / 1MB)
    $diskLetter = $DrivePath.ToUpper()
    if ($usedPct -gt $Ratio) {
        $msg = Get-Msg `
            -FR ("Votre espace disque disponible sera bientôt atteint !`n`n" +
                "Vous utilisez $([math]::Round($usedPct,0))% de votre espace disque !`n`n" +
                "Disque : $diskLetter`n" +
                "Occupation : $usedMB Mo`n" +
                "Taille : $totalMB Mo") `
            -EN ("Your disk space will be reached soon!`n`n" +
                "You are using $([math]::Round($usedPct,0))% of your disk space!`n`n" +
                "Disk : $diskLetter`n" +
                "Occupation : $usedMB MB`n" +
                "Size : $totalMB MB") `
            -IsFrench $IsFrench
        $title = Get-Msg -FR "Attention" -EN "Warning" -IsFrench $IsFrench
        # Buttons+Icon: 48 = OK + Warning icon
        $wsh = New-Object -ComObject "WScript.Shell"
        $ret = $wsh.Popup($msg, $PopupTimeout, $title, 48)
    }
}
# =====
# System
# =====
function Get-LogonServer {
    return $env:LOGONSERVER
}
function Get-OSMajorVersion {
    # Get-CimInstance is reliable on Win 10/11 - [System.Environment] may return 6
    $os = Get-CimInstance -ClassName Win32_OperatingSystem -ErrorAction Stop
    return [int]($os.Version.Split('.')[0])
}
function Get-DriveType {
    param([string]$DrvPath)
    $fso = New-Object -ComObject "Scripting.FileSystemObject"
    $drive = $fso.GetDrive($DrvPath)
    return $drive.DriveType
}
# =====
# Quick Access
# =====
function Clear-QuickAccess {
    $shell = New-Object -ComObject "Shell.Application"
    $folder = $shell.Namespace("shell:::{679f85cb-0220-4080-b29b-5540cc05aab6}")
    foreach ($item in $folder.Items()) {
        $item.InvokeVerb("unpinfromhome")
    }
}
function Add-QuickAccess {
    param([string]$Path)
    $shell = New-Object -ComObject "Shell.Application"
    $folder = $shell.Namespace($Path)
    if ($null -ne $folder) {
        $folder.Self.InvokeVerb("pintohome")
        Start-Sleep -Milliseconds 200
        return $true
    }
    return $false
}
function Set-QuickAccess {
    param(
        [string]$Folders, # Comma-separated list of folders/drives to pin
        [string]$LinksFolder # Folder containing .lnk shortcuts to also pin
    )
    # Quick Access is only available on Windows 10+

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if ((Get-OSMajorVersion) -lt 10) { return }
Clear-QuickAccess
$networkDrivePaths = [System.Collections.Generic.List[string]]::new()
if (-not [string]::IsNullOrEmpty($Folders)) {
    foreach ($folder in $Folders.Split(',')) {
        $folder = $folder.Trim()
        # Strip trailing backslash from bare drive letters e.g. "H:\" → "H:"
        if ($folder.Length -eq 3 -and $folder[2] -eq '\') {
            $folder = $folder.Substring(0, 2)
        }
        # If it's a network drive, store its UNC path to avoid duplicate pins
        $driveType = try { Get-DriveType $folder } catch { -1 }
        if ($driveType -eq 3) {
            $unc = Resolve-NetworkDrive $folder
            $networkDrivePaths.Add($unc.ToLower())
        }
        $ret = Add-QuickAccess $folder
    }
}
# Pin shortcuts from the links folder, skipping already-pinned network paths
if (-not [string]::IsNullOrEmpty($LinksFolder)) {
    $lnkFiles = Get-ChildItem -Path $LinksFolder -Filter "*.lnk" -ErrorAction SilentlyContinue
    foreach ($lnk in $lnkFiles) {
        $target = Get-ShortcutTarget $lnk.FullName
        if (-not $networkDrivePaths.Contains($target.ToLower())) {
            Add-QuickAccess $target
        }
    }
}
}
# =====
# Main
# =====
$isFrench = ((Get-Culture).TwoLetterISOLanguageName -eq "fr")
Remove-AllNetworkDrives
$user = Get-LoggedOnUserADInfo
if ($null -ne $user) {
    $homeDrive = $user.HomeDrive # e.g. "H:"
    # Map home drive
    $label = Get-Msg `
        -FR "Espace personnel de $($user.DisplayName)" `
        -EN "Personal space of $($user.DisplayName)" `
        -IsFrench $isFrench
    Connect-Drive -Drive $homeDrive -Path $user.HomeDirectory `
        -Description $label -IsFrench $isFrench
    # Map group drive
    $groupLabel = Get-Msg -FR "Ma classe [%SECONDARY_GROUP%]" -EN "My class [%SECONDARY_GROUP%]" -IsFrench $isFrench
    Connect-Drive -Drive "%GROUP_DRIVE%" -Path "\\%SECONDARY_GROUP_SERVER%\%SECONDARY_GROUP%" -Description
    $groupLabel -IsFrench $isFrench
    <#
    # Warn if home drive is nearly full
    Test-DiskOccupation -DrivePath $homeDrive -Ratio 80 `
        -NetworkTimeout 5 -PopupTimeout 20 -IsFrench $isFrench
    #>
    <#
    # Pin folders to Quick Access
    Set-QuickAccess `
        -Folders "$homeDrive\,$homeDrive\Documents,$homeDrive\Pictures,$homeDrive\Downloads,Q:\" `
        -LinksFolder "$homeDrive\Groups"
    #>
}
# Launch KoXoLabel from NETLOGON – separate script to keep group scripts lean
$logonServer = Get-LogonServer
& "\\$logonServer\NETLOGON\KoXoLabel.ps1" /BackgroundColor="#A56E3A"

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