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PreProc.bas

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1 REM PreProc.bas
2 ' Copyright (c) 2018 - 2019 WiseBox.Solutions
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4 ' KKelbert@Wisebox.Solutions; support@wisebox.solutions
5 '
6
7 REM 'ToDo List
8 ' Pedigree
9 ' 2019-01-05 Make use of Moxie.cfg file's 'Meta = ' line to modify functioning of this code
10 ' - multiple options per line
11 ' - Meta = Nightly-Name1: Value1; Nightly-Name2: Value2
12 ' 2018-07-14 per: https://trello.com/c/QYZSsd2y/14-ongoing-maintenance-of-preproc-nightly
13 ' Nightly log-rotate to limit zip file size by breaking each zip file into many. All less than 700MB.
14 ' 2017-04-07 [Slack:taas] Kerry - Could you, urgently, add a .zip backup of the Work folder to your nightly backup system?
15 ' https://trello.com/c/16R95UwP/25-s012-automation
16 ' 2016-09-28 repair grabbing biz.session.cnd as well as session.cnd
17 ' ToDo - Final zPreProc dated.zip file to be placed into same folder as PreProc.conf -> [BackupRootFolder] setting
18 ' ToDo - Replace / ReImplement any and all hard coded links to follow PreProc.conf convention
19 ' Test - MoxView path to be found in PreProc.conf -> [MoxViewFolder] setting
20 ' PostProc Stats, Exceptions & Logs
21 ' 'Fast' search for Countries
22 ' Implement ServiceAudit logic from old MasterSwitch.bas.2014-04-10-0414
23 ' Broken: Gather and PreProcess "Exception" file dates and flag them that fall between lsLastStatsSnapshot & StampItNowLogFmt for later processing
24 ' Mode: 2014-07-02 Tosses the files that have GPF'd based on time stamp
25 ' Require: a command that will cause a GPF (for testing)
26 ' repaired 2014-07-04-0504
27 ' Done - needs testing sat - Move reports to do move on sat AM run only - very long file names still error
28 'next glFinalResult = 9
29
30 REM Compiler Directives
31 #COMPILER PBWIN 10
32 #COMPILE EXE "PreProc"
33 #OPTION VERSION5
34 #DIM ALL
35 #DEBUG ERROR ON
36 #TOOLS ON
37 #OPTION LARGEMEM32
38 #INCLUDE "win32api.inc"
39
40 REM 'Macros
41 MACRO mCommitLog()
42 ' If IsFalse( glLogQuiet) THEN CommitLog lsHomeFldr, lsResult
43 END MACRO
44
45 MACRO mABS_SRC = lsaFolderPath(%FolderRoot, llFolderPathNum) + "\" + lsaFolderPath(%FolderObject, llFolderPathNum)
46 MACRO mABS_DST = lsaFolderPath(%BackupRoot, llFolderPathNum) + "\" + lsaFolderPath(%FolderObject, llFolderPathNum)
47
48 MACRO mDEST_BIN = mABS_DST + "\Bin"
49 MACRO mDEST_LOG = mABS_DST + "\Log"
50 MACRO mDEST_DBSTORE = mABS_DST + "\DBStore"
51 MACRO mDEST_REPORTS = mABS_DST + "\Reports"
52 MACRO mDEST_WORK = mABS_DST + "\Work"
53
54 MACRO mSRC_2 = mABS_SRC + "\DBStore\"**
55 MACRO mDEST_2 = mABS_DST + "\DBStore\"** + StampItDateHM + ".zip"
56 MACRO mSRC_3 = mABS_SRC + "\Private\"**
57 MACRO mDEST_3 = mABS_DST + "\Private.zip"
58 MACRO mSRC_4 = mABS_SRC + "\Public\"**
59 MACRO mDEST_4 = mABS_DST + "\Public.zip"
60 MACRO mSRC_5 = mABS_SRC + "\Templates\"**
61 MACRO mDEST_5 = mABS_DST + "\Templates.zip"
62 MACRO mSRC_6 = mABS_SRC + "\Work\"**
63 MACRO mDEST_6 = mABS_DST + "\Work\"** + StampItDateHM + ".zip"
64
65 REM 'Consts
66 $ProgramName = "PreProc"
67 $PreProcTempFile = "PreProc.Ok2del"
68 $PreProcListFile = "PreProc.Include"
69 $PreProcCfgName = "PreProc.conf"
70
71 $SEP_NUL = CHR$(0)
72 $SEP_SOH = CHR$(1)
73 $SEP_CRLF = "<cnw-$crlf>"
74 $SEP_CR = "<cnw-$cr>"
75 $SEP_LF = "<cnw-$lf>"
76 $SEP_TAB = "<cnw-$tab>"
77

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78 $FlagIfNotEmpty = "$FlagIfNotEmpty"
79 $FlagIfEmpty = "$FlagIfEmpty"
80 $FlagIfNotIncludes = "$FlagIfNotIncludes"
81 $FlagIfIncludes = "$FlagIfIncludes"
82 $Ignore = "$Ignore"
83
84 %dir_DBStore = &h0001
85 %dir_History = &h0002
86 %dir_Lib = &h0004
87 %dir_Private = &h0008
88 %dir_Public = &h0010
89 %dir_Recv = &h0020
90 %dir_Templates = &h0040
91 %dir_Work = &h0080
92
93 %file_Replace = 0
94 %file_Append = 1
95
96 %statsAlias = 1
97 %statsStatTime = 2 : $statsStatTime = "StatTime ="
98 %statsMoxieVer = 3 : $statsMoxieVer = "MoxieVer ="
99 %statsHttpState = 4 : $statsHttpState = "HttpState ="
100 %statsHttpsState = 5 : $statsHttpsState = "HttpsState ="
101 %statsBkRecvState = 6 : $statsBkRecvState = "BkRecvState ="
102 %statsSrvHits = 7 : $statsSrvHits = "SrvHits ="
103 %statsSrvCurrent = 8 : $statsSrvCurrent = "SrvCurrent ="
104 %statsSrvPeek = 9 : $statsSrvPeek = "SrvPeek ="
105 %statsSrvCompleted = 10 : $statsSrvCompleted = "SrvCompleted ="
106 %statsSrvUnique = 11 : $statsSrvUnique = "SrvUnique ="
107 %statsSrvUniquePeek = 12 : $statsSrvUniquePeek = "SrvUniquePeek ="
108 %statsClientRead = 13 : $statsClientRead = "ClientRead ="
109 %statsClientWrite = 14 : $statsClientWrite = "ClientWrite ="
110 %statsBackupRead = 15 : $statsBackupRead = "BackupRead ="
111 %statsBackupWrite = 16 : $statsBackupWrite = "BackupWrite ="
112 %MAXstatsFIELDS = 16
113
114 %FolderRoot = 1
115 %BackupRoot = 2
116 %StatsRecv = 3
117 %FolderObject = 4
118 %ConfigData = 5
119 %IP = 6 : $cfgIP = "IP ="
120 %MaxConnections = 7 : $cfgMaxConnections = "MaxConnections ="
121 %HttpPort = 8 : $cfgHttpPort = "HttpPort ="
122 %HttpsPort = 9 : $cfgHttpsPort = "HttpsPort ="
123 %CertFile = 10 : $cfgCertFile = "CertFile ="
124 %RelayHttpsHost = 11 : $cfgRelayHttpsHost = "RelayHttpsHost ="
125 %Encoding = 12 : $cfgEncoding = "Encoding ="
126 %RAMRecvSize = 13 : $cfgRAMRecvSize = "RAMRecvSize ="
127 %DLLs = 14 : $cfgDLLs = "DLLs ="
128 %LocalBKPath = 15 : $cfgLocalBKPath = "LocalBKPath ="
129 %SendBKName = 16 : $cfgSendBKName = "SendBKName ="
130 %SendBKPort = 17 : $cfgSendBKPort = "SendBKPort ="
131 %SendBKPWHash = 18 : $cfgSendBKPWHash = "SendBKPWHash ="
132 %RecvBKPort = 19 : $cfgRecvBKPort = "RecvBKPort ="
133 %RecvBKPWHash = 20 : $cfgRecvBKPWHash = "RecvBKPWHash ="
134 %ServiceName = 21 : $cfgServiceName = "ServiceName ="
135 %ServiceUser = 22 : $cfgServiceUser = "ServiceUser ="
136 %DiskFlushTimer = 23 : $cfgDiskFlushTimer = "DiskFlushTimer ="
137 %AltIPInfo = 24 : $cfgAltIPInfo = "AltIPInfo ="
138 %RelayNoAltIP = 26 : $cfgRelayNoAltIP = "RelayNoAltIP ="
139 %ForcedCookies = 27 : $cfgForcedCookies = "ForcedCookies ="
140 %Meta = 28 : $cfgMeta = "Meta ="
141 %MAXcfgFIELDS = 28
142
143
144 %F01_FolderName = 1 : %F00eAlias = 1
145 %F02_LogLocation = 2 : %F01eFolderName = 2
146 %F03_TimeStamp = 3 : %F02eLogLocation = 3
147 %F04_Thread = 4 : %F03eTimeStamp = 4
148 %F05_Category = 5 : %F04eThread = 5
149 %F06_Message = 6 : %F05eCategory = 6
150 %F07_Details = 7 : %F06eMessage = 7
151 %F08_Bytes = 8 : %F07eDetails = 8
152 %F09_IPNum = 9 : %F08eBytes = 9
153 %F10_ThreadNum = 10 : %F09eIPNum = 10
154 %F11_ThreadTime = 11 : %F10eThreadNum = 11
155 %F12_ThreadTime = 12 : %F11eThreadTime = 12

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155 %F12_PersonUUID = 12 : %F12ePersonUUID = 13
156 %F13_SessionUUID = 13 : %F13eSessionUUID = 14
157 %F14_Datum1 = 14 : %F14eDatum1 = 15
158 %F15_Datum2 = 15 : %F15eDatum2 = 16
159 %F16_Datum3 = 16 : %F16eDatum3 = 17
160 %F17_Datum4 = 17 : %F17eDatum4 = 18
161 %F18_MessageCode = 18 : %F18eMessageCode = 19
162 %F19_MoxVerMajor = 19 : %F19eMoxVerMajor = 20
163 %F20_MoxVerMinor = 20 : %F20eMoxVerMinor = 21
164 %F21_Country = 21 : %F21eCountry = 22
165
166 %Tdata = 21 : %Tedata = 22
167
168 Rem 'Main
169 FUNCTION PBMAIN () AS LONG
170 GLOBAL glFinalResult, glLogStats, glLogRotate, glLogQuiet, glAllOff, glAllOn, llIsCritical AS LONG
171 global gsFinalMessage as string
172 local lsCommand, lsHomeFldr, lsResult, lsWork, lsHeader, lsFooter, lsTmpLog, lsFolderPath(), lsMeta(), lsFile, lsFiles(), lsFiles1(), lsFiles2(), lsTmp, lsTmp(), lsSrt(), lsData, lsData() as string
173 ta() as string
174 local lsDest, lsDest(), lsLastStatsSnapshot, lsNowStatsSnapshot, lsLookFor, lsPreProcEmail, lsBackupRootFolder, lsStatsRecvFolder, lsMoxViewFolder, lsMailServer, lsMailServerPort, lsMailFrom
175 AS STRING
176 local lsEmailSubject, lsEmailOnError, lsEmailNoError, lsMoxieOnError, lsOrigFldr, lsWorkFldr, lsT1, lsT2, lsForceCnwEmailErr, lsServiceData, lsServiceName AS STRING
177 local llC1, llC2, llC21, llC22, llC3, llC4, llFlag, llFlag1, llFlag2, llLen, llBrokenFlag, llPerformZip, llFolderPathNum, llLOF as long
178 LOCAL lnTimer AS SINGLE
179 LOCAL tddDirData AS DIRDATA
180 LOCAL tiPowerTime AS IPOWERTIME
181
182 REDIM lsFolderPath(0), lsMeta(0), lsFiles(0), lsFiles1(0), lsFiles2(0), lsTmp(0), lsData(0), lsDest(0)
183
184 lnTimer = TIMER
185 glFinalResult = 0
186 StampItInit
187
188 REM 'Preload the email notification with the command line settings
189 gsFinalMessage += $CRLF + "Command-line arguments used to start the program: " + $CRLF + $TAB + command$
190
191 REM 'Check command line parameters, manually verify with:
192 ' c:\Util\PreProc>%comspec% /z /c PreProc /Logrotate /Stats /Quiet
193 ' c:\Util\PreProc>%comspec% /z /c PreProc /AllOff
194 ' c:\Util\PreProc>%comspec% /z /c PreProc /AllOn
195 ' c:\Util\PreProc>echo %errorlevel%
196
197 lsCommand = lcase$(trim$(command$))
198 If isTrue( INSTR(lsCommand, "/quiet")) THEN glLogQuiet = %True
199 If isTrue( INSTR(lsCommand, "/stats")) THEN glLogStats = %True
200 If isTrue( INSTR(lsCommand, "/logrotate")) THEN glLogRotate = %True
201 If isTrue( INSTR(lsCommand, "/alloff")) THEN glAllOff = %True
202 If isTrue( INSTR(lsCommand, "/allon")) THEN glAllOn = %True
203
204 If isFalse( glLogStats) _
205 and isFalse( glLogRotate) _
206 and isFalse( glAllOff) _
207 and isFalse( glAllOn) _
208 Then
209 'NOTE: because sCaptureConfiguration has not been called yet, no email will be sent
210 glFinalResult = 1
211 GoTo PrematureExit
212 End If
213
214 REM 'Find out where we are starting from
215 lsCommand = "echo %cd%"
216 ShellExec lsHomeFldr = RTRIM$( lsHomeFldr, ANY " \" ) + "\"
217
218 REM 'Remove any old tmp files from last run (the Moxie program run should have completed at this point!)
219 if glLogRotate OR glLogStats Then
220 lsCommand = "DEL /Q /F /S " + $DQ + ".\Moxie\Recv\*.*" + $DQ
221 ResultFlagOnShellExec "ShellExec", "", "", lsCommand, lsResult, $Ignore, ""
222 mCommitLog
223 END IF
224
225 REM 'Capture all the config info
226 sCaptureConfiguration lsHomeFldr, _
227 lsFolderPath(), _
228 lsBackupRootFolder, _
229 lsStatsRecvFolder, _
230 lsMoxViewFolder, _

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230         lsMailServer, _
231         lsMailServerPort, _
232         lsMailFrom, _
233         lsForceCnwEmailErr, _
234         lsEmailOnError, _
235         lsEmailNoError, _
236         lsMoxieOnError
237
238     lsMoxViewFolder = RTRIM$( lsMoxViewFolder, ANY " \" ) + "\"
239     lsBackupRootFolder = RTRIM$( lsBackupRootFolder, ANY " \" ) + "\"
240
241     sCaptureConfigurationSave lsHomeFldr, _
242                               lsaFolderPath(), _
243                               lsResult
244
245     mCommitLog
246
247 REM 'Parse out the Meta info, per server
248 MetaCapture lsaFolderPath(), lsaMeta()
249
250 REM 'Ensure that our various programs are where they are supposed to be
251 ' http://www.7-zip.org/faq.html
252 ' 7-Zip stores only relative paths of files (without a drive letter prefix).
253 ' To impliment, change the current folder to the folder that is common for all files that you want to compress and
254 ' then you can use relative paths
255
256 lsCommand = "7za"
257 IF ShellExec7za( lsHomeFldr + $ProgramName, lsHomeFldr, lsCommand, lsTmp) = %True _
258 OR INSTR( lcase$( lsTmp), lcase$( "Copyright")) = %False _
259 OR DIR$(lsHomeFldr + "PwrMail.exe") <> "PwrMail.exe" _
260 OR DIR$(lsHomeFldr + "Moxie\Moxie.exe") <> "Moxie.exe" _
261 OR DIR$(lsHomeFldr + "Moxie\Moxie.PreProc.mox") <> "Moxie.PreProc.mox" _
262 OR DIR$(lsHomeFldr + "Moxie\Moxie.PreProc.SendGrid.mox") <> "Moxie.PreProc.SendGrid.mox" _
263 Then
264     lsTmp = "One or more of these programs is missing or not functioning:"
265     lsTmp += $CRLF + $TAB + "7za.exe"
266     lsTmp += $CRLF + $TAB + "PwrMail.exe"
267     lsTmp += $CRLF + $TAB + "Moxie\Moxie.exe"
268     lsTmp += $CRLF + $TAB + "Moxie\Moxie.PreProc.mox"
269     lsTmp += $CRLF + $TAB + "Moxie\Moxie.PreProc.SendGrid.mox"
270     lsTmp += $CRLF + "Cannot Proceed."
271     lsResult += $CRLF + "Error: " + lsTmp
272     gsFinalMessage += $CrLf + lsTmp
273     glFinalResult = 3
274     mCommitLog
275     GoTo PrematureExit
276 Else
277     lsResult += $CRLF + "Our zipping program (7za.exe) was found."
278     mCommitLog
279 End If
280
281 REM 'If requested, handle MoxView service start/stop
282 REM 'ServiceStop - lsMoxViewFolder
283 if glAllOff Then
284     IF LEN( DIR$(lsMoxViewFolder + "Moxie.cfg")) THEN
285         sFileGet lsMoxViewFolder + "Moxie\Moxie.cfg", lsServiceData, llLen
286         IF LEN( lsServiceData) THEN
287             lsServiceName = TRIM$( EXTRACT$( REMAIN$( lsServiceData,$cfgServiceName ), $CRLF))
288             lsCommand = "NET STOP " + $DQ + lsServiceName + $DQ
289             llBrokenFlag = ResultFlagOnShellExec( "ShellExec", "", "", lsCommand, lsResult, $FlagIfNotIncludes, "successfully")
290             mCommitLog
291         End If
292     END IF
293 End If
294
295 REM 'ServiceStart - lsMoxViewFolder
296 if glAllOn Then
297     IF LEN( DIR$(lsMoxViewFolder + "Moxie.cfg")) THEN
298         sFileGet lsMoxViewFolder + "Moxie.cfg", lsServiceData, llLen
299         IF LEN( lsServiceData) THEN
300             lsServiceName = TRIM$( EXTRACT$( REMAIN$( lsServiceData,$cfgServiceName ), $CRLF))
301             lsCommand = "NET START " + $DQ + lsServiceName + $DQ
302             llBrokenFlag = ResultFlagOnShellExec( "ShellExec", "", "", lsCommand, lsResult, $FlagIfNotIncludes, "successfully")
303             mCommitLog
304         End If
305     END IF
306 End If

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307 REM 'Perform Moxie.PreProc.SendGrid.mox to PreProcess rejected emails
308 IF LEN( DIR$(lsHomeFldr + "Moxie\Moxie.PreProc.SendGrid.mox")) THEN
309     If glLogRotate THEN
310         lsCommand = "CD /D " + $DQ + lsHomeFldr + "Moxie" + $DQ + " && Moxie.exe " + $DQ + "Moxie.PreProc.SendGrid.mox"
311         lsCommand += $DQ
312         llBrokenFlag = ResultFlagOnShellExec( "ShellExec", lsWork, lsHomeFldr, lsCommand, lsResult, $Ignore, "")
313         mCommitLog
314     END IF
315 END IF
316
317 FOR llFolderPathNum = 1 TO UBOUND( lsaFolderPath(2))
318
319     lsWork = lsaFolderPath( %FolderRoot, llFolderPathNum) + "\" + lsaFolderPath( %FolderObject, llFolderPathNum) + "\"
320
321     IF ISTRUE(LEN( lsaFolderPath(%BackupRoot, llFolderPathNum))) -
322     AND ISTRUE(LEN( lsaFolderPath(%FolderRoot, llFolderPathNum))) -
323     AND ISTRUE(LEN( lsaFolderPath(%StatsRecv, llFolderPathNum))) -
324     AND ISTRUE(LEN( lsaFolderPath(%FolderObject, llFolderPathNum))) -
325     AND ISTRUE(LEN( lsaFolderPath(%ServiceName, llFolderPathNum))) -
326     AND ISTRUE(LEN( lsaFolderPath(%ServiceUser, llFolderPathNum))) -
327     THEN
328         REM 'Folder Init
329         lsHeader = "<" & $ProgramName & ".Folder " + lsaFolderPath(%FolderObject, llFolderPathNum) + ">"
330         lsFooter = "</" & $ProgramName & ".Folder>"
331         lsResult += $CRLF + lsHeader
332
333         REM 'Stats Init
334         If glLogStats then
335             sFileGet = mABS_SRC + "\Moxie.stats.Last", lsData, llLen
336             lsLookFor = "[StatsLast] = "
337             lsNowStatsSnapshot = StampItNowLogFmt
338             If INSTR( lsData, lsLookFor) THEN
339                 lsLastStatsSnapshot = remain$( lsData, lsLookFor)
340                 lsLastStatsSnapshot = TRIM$( Extract$( lsLastStatsSnapshot, $CRLF), ANY $WHITESPACE)
341             ELSE
342                 'Assume a default date of just after midnight; in otherwords, "Today"
343                 lsTmp = DATE$
344                 lsLastStatsSnapshot = RIGHT$(lsTmp, 4) + "-" + LEFT$(lsTmp, 5) + " 00:00:00"
345             END IF
346
347             REM 'new data for this field
348             lsNowStatsSnapshot = StampItNowLogFmt
349             Redim lsaData( 1 to 3)
350             lsaData(1) = "#Do not edit this file as it will be overwritten"
351             lsaData(2) = ""
352             lsaData(3) = lsLookFor + lsNowStatsSnapshot
353             sFilePut = mABS_SRC + "\Moxie.stats.Last", Join$( lsaData(), $CrLf)
354
355             REM 'Create our stats time stamp file for this run
356             lsData = "StatsLast" + $TAB + "StatsNow" + $CRLF
357             lsData += lsLastStatsSnapshot + $TAB + lsNowStatsSnapshot
358             sFilePut = "\Moxie\Recv\" + format$(llFolderPathNum, "000") + ".snapshot.tab", lsData
359         End If
360
361         REM 'ServiceInit - Ensure Folders
362         If glLogRotate Then
363             sEnsureFolder " ", mDEST_BIN, lsTmpLog : lsResult += $CRLF + "sEnsureFolder: " + mDEST_BIN + lsTmpLog
364             sEnsureFolder " ", mDEST_LOG, lsTmpLog : lsResult += $CRLF + "sEnsureFolder: " + mDEST_LOG + lsTmpLog
365             sEnsureFolder " ", mDEST_DBSTORE, lsTmpLog : lsResult += $CRLF + "sEnsureFolder: " + mDEST_DBSTORE + lsTmpLog
366             sEnsureFolder " ", mDEST_REPORTS, lsTmpLog : lsResult += $CRLF + "sEnsureFolder: " + mDEST_REPORTS + lsTmpLog
367             sEnsureFolder " ", mDEST_WORK, lsTmpLog : lsResult += $CRLF + "sEnsureFolder: " + mDEST_WORK + lsTmpLog
368             mCommitLog
369         End If
370
371         REM 'AuxFoldersToZip - Every iteration
372         If glLogRotate Then
373             \Private\
374             lsCommand = "IF EXIST " + $DQ + mDEST_3 + $DQ + " (DEL " + $DQ + mDEST_3 + $DQ + ")"
375             llBrokenFlag = ResultFlagOnShellExec( "ShellExec", "", "", lsCommand, lsResult, $FlagIfNotEmpty, "")
376             lsCommand = "IF EXIST " + $DQ + mDEST_3 + ".*" + $DQ + " (DEL " + $DQ + mDEST_3 + ".*" + $DQ + ")"
377             llBrokenFlag = ResultFlagOnShellExec( "ShellExec", "", "", lsCommand, lsResult, $FlagIfNotEmpty, "")
378             lsCommand = "7za a -tzip -I -ssw"
379             lsCommand += " " -w" + $DQ + lsHomeFldr + $ProgramName + $DQ
380             lsCommand += " " -w" + $DQ + mDEST_3 + $DQ
381             lsCommand += " " + $DQ + mSRC_3 + $DQ
382             llBrokenFlag = ResultFlagOnShellExec( "ShellExec7za", lsWork, lsHomeFldr, lsCommand, lsResult, $FlagIfNotIncludes, "Everything is Ok")
383             mCommitLog

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384 Sleep 500
385
386 '\Public\
387 lsCommand = "IF EXIST " + $DQ + mDEST_4 + $DQ + " (DEL " + $DQ + mDEST_4 + $DQ+ " )"
388 llBrokenFlag = ResultFlagOnShellExec( "ShellExec", "", "", lsCommand, lsResult, $FlagIfNotEmpty, "")
389 lsCommand = "IF EXIST " + $DQ + mDEST_4 + ".*" + $DQ + " (DEL " + $DQ + mDEST_4 + ".*" + $DQ+ " )"
390 llBrokenFlag = ResultFlagOnShellExec( "ShellExec", "", "", lsCommand, lsResult, $FlagIfNotEmpty, "")
391 lsCommand = "7za a -tzip -v600m -r -ssw"
392 lsCommand += " -w" + $DQ + lsHomeFldr + $ProgramName + $DQ
393 lsCommand += " " + $DQ + mDEST_4 + $DQ
394 lsCommand += " " + $DQ + mSRC_4 + $DQ
395 llBrokenFlag = ResultFlagOnShellExec( "ShellExec7za", lsWork, lsHomeFldr, lsCommand, lsResult, $FlagIfNotIncludes, "Everything is Ok")
396 mCommitLog
397 Sleep 500
398
399 '\Templates\
400 lsCommand = "IF EXIST " + $DQ + mDEST_5 + $DQ + " (DEL " + $DQ + mDEST_5 + $DQ+ " )"
401 llBrokenFlag = ResultFlagOnShellExec( "ShellExec", "", "", lsCommand, lsResult, $FlagIfNotEmpty, "")
402 lsCommand = "IF EXIST " + $DQ + mDEST_5 + ".*" + $DQ + " (DEL " + $DQ + mDEST_5 + ".*" + $DQ+ " )"
403 llBrokenFlag = ResultFlagOnShellExec( "ShellExec", "", "", lsCommand, lsResult, $FlagIfNotEmpty, "")
404 lsCommand = "7za a -tzip -r -ssw"
405 lsCommand += " -w" + $DQ + lsHomeFldr + $ProgramName + $DQ
406 lsCommand += " " + $DQ + mDEST_5 + $DQ
407 lsCommand += " " + $DQ + mSRC_5 + $DQ
408 llBrokenFlag = ResultFlagOnShellExec( "ShellExec7za", lsWork, lsHomeFldr, lsCommand, lsResult, $FlagIfNotIncludes, "Everything is Ok")
409 mCommitLog
410 Sleep 500
411
412 End If
413
414 REM 'ServiceStop
415 if glLogRotate OR glAllOff Then
416 lsCommand = "NET STOP " + $DQ + lsaFolderPath(%ServiceName, llFolderPathNum) + $DQ
417 llBrokenFlag = ResultFlagOnShellExec( "ShellExec", "", "", lsCommand, lsResult, $FlagIfNotIncludes, "successfully")
418 mCommitLog
419 End If
420
421 REM 'Perform Zip of Moxie Service and data folders
422 if glLogRotate Then
423 llPerformZip = %False
424 llBrokenFlag = %False
425
426 REM 'Perform Daily on SSL enabled servers
427 IF VAL(lsaFolderPath(%HttpsPort, llFolderPathNum)) = 443 THEN
428 llPerformZip = %True
429 END IF
430
431 REM 'Perform Saturday on ALL servers
432 IF LCASE$(GetDow(StampItDate)) = LCASE$("Sat") THEN
433 llPerformZip = %True
434 END IF
435
436 IF llPerformZip THEN
437 REM 'Gather and zip all "Moxie" files
438 sGetFileNamesOnly lsaFiles(), lsWork, %dir_Lib OR %dir_History
439 llC2 = 0
440 For llC1 = 1 to UBOUND(lsaFiles)
441 llFlag = %False
442 If lcase$( Right$( lsaFiles(llC1), 4)) = "lib\" Then Iterate for
443 If lcase$( Right$( lsaFiles(llC1), 8)) = "history\" Then Iterate for
444 If lcase$( Right$( lsaFiles(llC1), 4)) = ".dll" Then llFlag = %True
445 If lcase$( Right$( lsaFiles(llC1), 4)) = ".dat" Then llFlag = %True
446 If lcase$( Right$( lsaFiles(llC1), 4)) = ".cfg" Then llFlag = %True
447 If lcase$( Right$( lsaFiles(llC1), 4)) = ".exe" Then llFlag = %True
448 If lcase$( Right$( lsaFiles(llC1), 4)) = ".mox" Then llFlag = %True
449 If lcase$( Right$( lsaFiles(llC1), 4)) = ".bat" Then llFlag = %True
450 IF llFlag = %False THEN Iterate for
451 Incr llC2
452 lsaFiles(llC2) = lsaFiles(llC1)
453 Next
454 REDIM PRESERVE lsaFiles(1 TO llC2)
455 If llC2 THEN
456 sFilePut lsWork + $PreProcListFile, Join$( lsaFiles(), $CrLf)
457 lsCommand = "7za a -tzip -ssw"
458 lsCommand += " -w" + $DQ + lsHomeFldr + $ProgramName + $DQ
459 lsCommand += " -i@" + $DQ + lsWork + $PreProcListFile + $DQ
460 lsCommand += " " + $DQ + mDEST_BIN + "\" + StampItDateHM + $DQ

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461         llBrokenFlag = ResultFlagOnShellExec("ShellExec7za", lsWork, lsHomeFldr, lsCommand, lsResult, $FlagIfNotIncludes, "Everything is Ok")
462         KILL lsWork + $PreProcListFile
463         If llBrokenFlag Then
464             glFinalResult = 6
465             gsFinalMessage += $CRLF + "The following command failed. Proceeding..."
466             gsFinalMessage += $CRLF + lsCommand
467         End If
468     ELSE
469         lsResult += $CRLF + "Error: sGetFileNamesOnly returned 0 files. 'Moxie' files were not zipped"
470     End If
471
472     mCommitLog
473 END IF
474 END IF
475
476 REM 'Gather and zip all "DBStore" files and sub folders
477 If glLogRotate Then
478     lsCommand = "7za a -tzip -r -ssw"
479     lsCommand += " -w" + $DQ + lsHomeFldr + $ProgramName + $DQ
480     lsCommand += " " + $DQ + mDEST_2 + $DQ
481     lsCommand += " " + $DQ + mSRC_2 + $DQ
482     llBrokenFlag = ResultFlagOnShellExec("ShellExec7za", lsWork, lsHomeFldr, lsCommand, lsResult, $FlagIfNotIncludes, "Everything is Ok")
483     If llBrokenFlag Then
484         glFinalResult = 7
485         gsFinalMessage += $CRLF + "The following command failed. Proceeding..."
486         gsFinalMessage += $CRLF + lsCommand
487     End If
488
489     mCommitLog
490 End If
491
492 REM 'Gather and zip all "Work" files and sub folders but only if the "Work" folder exists
493 If glLogRotate Then
494     If LEN(DIR$(lsWork + "Work\")) THEN
495         'lsCommand = "7za a -tzip -v600m -r -ssw"
496         lsCommand = "7za a -tzip -v600m -r -ssw -x!*.*pdf"
497         lsCommand += " -w" + $DQ + lsHomeFldr + $ProgramName + $DQ
498         lsCommand += " " + $DQ + mDEST_6 + $DQ
499         lsCommand += " " + $DQ + mSRC_6 + $DQ
500         llBrokenFlag = ResultFlagOnShellExec("ShellExec7za", lsWork, lsHomeFldr, lsCommand, lsResult, $FlagIfNotIncludes, "Everything is Ok")
501         If llBrokenFlag Then
502             glFinalResult = 7
503             gsFinalMessage += $CRLF + "The following command failed. Proceeding..."
504             gsFinalMessage += $CRLF + lsCommand
505         End If
506     End If
507
508     mCommitLog
509 End If
510
511 REM 'Gather and PreProcess "log" files that fall between lsLastStatsSnapshot & StampItNowLogFmt for later processing for later processing
512 If glLogStats then
513     sGetFileNamesOnly lsFiles(), lsWork, %dir_History
514     llC2 = 0
515     For llC1 = 1 to UBOUND(lsFiles)
516         If lcase$( Right$( lsFiles(llC1), 4)) <> ".log" Then Iterate for
517             Incr llC2
518             lsFiles(llC2) = lsWork + lsFiles(llC1)
519     Next
520     REDIM PRESERVE lsFiles(1 TO llC2)
521     If llC2 THEN
522         GatherLogFilesAndPreProcess lsFolderPath(), llFolderPathNum, lsFiles(), lsResult
523     ELSE
524         lsResult += $CrLf + "Error: No log files seen for " + lsWork
525     End If
526
527     mCommitLog
528 End If
529
530 REM 'Gather and PreProcess "stats" files that fall between lsLastStatsSnapshot & StampItNowLogFmt for later processing for later processing
531 If glLogStats then
532     sGetFileNamesOnly lsFiles(), lsWork, %dir_History
533     llC2 = 0
534     For llC1 = 1 to UBOUND(lsFiles)
535         If lcase$( Right$( lsFiles(llC1), 6)) <> ".stats" Then Iterate for
536             Incr llC2
537             lsFiles(llC2) = lsWork + lsFiles(llC1)

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538 Next
539 REDIM
540 If llC2 THEN
541     Redim
542     Redim
543
544 For llC1 = 1 to UBOUND(lsaFiles)
545
546     sFileGet
547         lsaFiles(llC1), lsTmp, llLOF
548
549     lsaData( %statsStatTime, llC1) = TRIM$( EXTRACT$( REMAIN$( lsTmp, $statsStatTime ), $CRLF))
550     lsaData( %statsMoxieVer, llC1) = TRIM$( EXTRACT$( REMAIN$( lsTmp, $statsMoxieVer ), $CRLF))
551     lsaData( %statsHttpState, llC1) = TRIM$( EXTRACT$( REMAIN$( lsTmp, $statsHttpState ), $CRLF))
552     lsaData( %statsHttpsState, llC1) = TRIM$( EXTRACT$( REMAIN$( lsTmp, $statsHttpsState ), $CRLF))
553     lsaData( %statsBkRecvState, llC1) = TRIM$( EXTRACT$( REMAIN$( lsTmp, $statsBkRecvState ), $CRLF))
554     lsaData( %statsSrvHits, llC1) = TRIM$( EXTRACT$( REMAIN$( lsTmp, $statsSrvHits ), $CRLF))
555     lsaData( %statsSrvCurrent, llC1) = TRIM$( EXTRACT$( REMAIN$( lsTmp, $statsSrvCurrent ), $CRLF))
556     lsaData( %statsSrvPeek, llC1) = TRIM$( EXTRACT$( REMAIN$( lsTmp, $statsSrvPeek ), $CRLF))
557     lsaData( %statsSrvCompleted, llC1) = TRIM$( EXTRACT$( REMAIN$( lsTmp, $statsSrvCompleted ), $CRLF))
558     lsaData( %statsSrvUnique, llC1) = TRIM$( EXTRACT$( REMAIN$( lsTmp, $statsSrvUnique ), $CRLF))
559     lsaData( %statsSrvUniquePeek, llC1) = TRIM$( EXTRACT$( REMAIN$( lsTmp, $statsSrvUniquePeek ), $CRLF))
560     lsaData( %statsClientRead, llC1) = TRIM$( EXTRACT$( REMAIN$( lsTmp, $statsClientRead ), $CRLF))
561     lsaData( %statsClientWrite, llC1) = TRIM$( EXTRACT$( REMAIN$( lsTmp, $statsClientWrite ), $CRLF))
562     lsaData( %statsBackupRead, llC1) = TRIM$( EXTRACT$( REMAIN$( lsTmp, $statsBackupRead ), $CRLF))
563     lsaData( %statsBackupWrite, llC1) = TRIM$( EXTRACT$( REMAIN$( lsTmp, $statsBackupWrite ), $CRLF))
564
565 For llC3 = 1 to %MAXstatsFIELDS
566     lsaTmp( llC1) += $Tab + lsaData( llC3, llC1)
567 Next
568 lsaTmp( llC1) = TRIM$( lsaTmp( llC1), $Tab)
569
570 lsaSrt( llC1) = lsaData( %statsStatTime, llC1) + $Tab + _
571 format$(llFolderPathNum, "000") + _
572 Format$(llC2, "0000000")
573
574 Next
575
576 ARRAY SORT lsaSrt(), COLLATE UCASE, TAGARRAY lsaTmp()
577 For llC2 = 1 to llC1
578     lsaTmp( llC2) = format$(llFolderPathNum, "000") + Format$(llC2, "0000000") + $Tab + lsaTmp( llC2)
579 Next
580
581 lsData = JOIN$( lsaTmp(), $CRLF)
582 REPLACE $CRLF WITH chr$(0) IN lsData
583 REPLACE $Tab WITH chr$(1) IN lsData
584 sFilePut ".\Moxie\Recv\" + format$(llFolderPathNum, "000") + ".stats.cnd", lsData
585 Reset
586 lsData
587
588 lsTmp = "Alias" + chr$(1) + "Alias" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
589 lsTmp += "F01" + chr$(1) + "F01StatTime" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
590 lsTmp += "F02" + chr$(1) + "F02MoxieVer" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
591 lsTmp += "F03" + chr$(1) + "F03HttpState" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
592 lsTmp += "F04" + chr$(1) + "F04HttpsState" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
593 lsTmp += "F05" + chr$(1) + "F05BkRecvState" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
594 lsTmp += "F06" + chr$(1) + "F06SrvHits" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
595 lsTmp += "F07" + chr$(1) + "F07SrvCurrent" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
596 lsTmp += "F08" + chr$(1) + "F08SrvPeek" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
597 lsTmp += "F09" + chr$(1) + "F09SrvCompleted" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
598 lsTmp += "F10" + chr$(1) + "F10SrvUnique" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
599 lsTmp += "F11" + chr$(1) + "F11SrvUniquePeek" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
600 lsTmp += "F12" + chr$(1) + "F12ClientRead" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
601 lsTmp += "F13" + chr$(1) + "F13ClientWrite" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
602 lsTmp += "F14" + chr$(1) + "F14BackupRead" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
603 lsTmp += "F15" + chr$(1) + "F15BackupWrite" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
604
605 sFilePut ".\Moxie\Recv\stats.cnt", TRIM$( lsTmp, chr$(0))
606 Reset
607 lsTmp
608
609 ELSE
610     lsResult += $CrLf + "Error: No stats files seen for " + lsWork
611 End If
612
613 mCommitLog
614 End If
615
616 REM 'Gather and PreProcess "Exception" file dates and flag them that fall between lsLastStatsSnapshot & StampItNowLogFmt for later processing
617 ' Filename format

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615 ' Exception-2014-05-05-011925-Default.dll.dat
616 ' Exception-2014-05-05-011925-Moxie.dll.dat
617 ' Exception-2014-05-05-011925-Moxie.exe.dat
618 If glLogStats then
619     sGetFileNamesOnly      lsaFiles(), lsWork, %dir_History
620     llc2                    = 0
621     For llc1 = 1 to UBOUND(lsaFiles)
622         If lcase$( Right$( lsaFiles(llc1), 4)) <> ".dat" Then Iterate for
623         If lcase$( LEFT$( lsaFiles(llc1), 9)) <> "exception" Then Iterate for
624             Incr            llc2
625             lsaFiles(llc2)  = lsWork + lsaFiles(llc1)
626     Next
627     REDIM                  PRESERVE lsaFiles(1 TO llc2)
628     If llc2 THEN
629         REM 'Parse and convert filename time stamp to find out when the exception occurred
630         For llc3 = 1 to llc2
631             lsT2            = LEFT$( lsaFiles(llc3), (INSTR( -1, lsaFiles(llc3), "-" ) - 1))
632             lsT2            = remain$( lsT2, "-")
633             '(convert 2014-06-09-150400 -> 2014-06-09 15:04:00)
634             lsT1            = left$( lsT2, 10)
635             lsT1            += " " + MID$( lsT2, 12, 2)
636             lsT1            += ":" + MID$( lsT2, 14, 2)
637             lsT1            += ":" + MID$( lsT2, 16, 2)
638
639             REM 'If the fimestamp is in the past, assume that it has been reported already
640             'If (DateTimeToQuad(lsT1) <= DateTimeToQuad( lsNowStatsSnapshot)) _
641             'AND (DateTimeToQuad(lsT1) => DateTimeToQuad( lsLastStatsSnapshot)) _
642             'THEN
643             If (DateTimeToQuad(lsT1) => DateTimeToQuad( lsLastStatsSnapshot)) THEN
644                 lsResult      += $CrLf + "Error: Exceptions found " + lsaFiles(llc3)
645                 glFinalResult  = 8
646                 gsFinalMessage += $CrLf + "Error: Exceptions found " + lsaFiles(llc3)
647             End If
648         Next
649     ELSE
650         ' Fall through as this is a good thing
651     End If
652
653     mCommitLog
654 End If
655
656 REM 'Move old reports to the backup area
657 if glLogRotate Then
658     IF LCASE$(GetDow(StampItDate)) = LCASE$("Sat") THEN
659         if LEN( DIR$(lsWork + "Private\Report Results\")) THEN
660             sGetFileNamesOnly      lsaFiles(), lsWork + "Private\Report Results\", 0
661             llc2                    = 0
662             REDIM                  lsaDest( 1 to UBOUND(lsaFiles))
663             For llc1 = 1 to UBOUND(lsaFiles)
664                 lsTmp              = DIR$(lsWork + "Private\Report Results\" + lsaFiles(llc1) TO tddDirData)
665                 tiPowerTime        = CLASS "PowerTime"
666                 tiPowerTime.FileTime = tddDirData.CreationTime ' tiPowerTime contains the file creation time in a localized format.
667                 lsT1                = tiPowerTime.DateString
668                 tiPowerTime.AddMonths = 2
669                 lsT2                = tiPowerTime.DateString
670                 If lsT2 > StampItDate Then Iterate for
671                     Incr            llc2
672                     lsaDest(llc2)   = $DQ + mDEST_REPORTS + "\" + $DQ
673                     lsaFiles(llc2)  = $DQ + lsaFiles(llc1) + $DQ
674             Next
675             REDIM                  PRESERVE lsaFiles(1 TO llc2)
676             REDIM                  PRESERVE lsaDest(1 TO llc2)
677             If llc2 THEN
678                 REM 'Prep the 'local' folder
679                 lsOrigFldr          = RTRIM$( CURDIR$, ANY " \") + "\"
680                 lsWorkFldr          = lsWork + "Private\Report Results\"
681
682                 If lsOrigFldr <> lsWorkFldr THEN
683                     CHDRIVE          Extract$(lsWorkFldr, ":")
684                     chdir            REMAIN$(lsWorkFldr, ":")
685                 End If
686
687                 For llc1 = 1 to llc2
688                     lsCommand        = "MOVE /Y " + lsaFiles(llc1) + " " + lsaDest(llc1)
689                     llBrokenFlag      = ResultFlagOnShellExec( "ShellExec", lsWork, "", lsCommand, lsResult, $FlagIfNotIncludes, "1 file(s) moved")
690                 NEXT
691             End If

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692      REM ' Restore the 'local' folder
693      If lsOrigFldr <> lsWorkFldr THEN
694          CHDRIVE      Extract$(lsOrigFldr, ":")
695          chdir        REMAIN$(lsOrigFldr, ":")
696      End If
697
698      End If
699  End If
700 end if
701 End If
702
703 REM 'Zip/Move/Save logs: If success, then delete them from the lsaFolderPath()
704 if glLogRotate Then
705     sGetFileNamesOnly      lsaFiles(), lsWork, %dir_History OR %dir_DBStore
706     'Require two versions of lsaFiles(),
707     ' 1st lsaFiles1() is what gets zipped/saved
708     ' 2nd lsaFiles2() is what gets deleted
709
710     llC21      = 0
711     llC22      = 0
712
713     REDIM lsaFiles1(1 TO UBOUND(lsaFiles))
714     REDIM lsaFiles2(1 TO UBOUND(lsaFiles))
715
716     For llC1 = 1 to UBOUND(lsaFiles)
717         llFlag1      = %False
718         llFlag2      = %False
719         If lcase$( Right$( lsaFiles(llC1), 4)) = ".log" Then
720             llFlag1      = %True
721             llFlag2      = %True
722         End If
723         If lcase$( Right$( lsaFiles(llC1), 4)) = ".dat" Then
724             llFlag1      = %True
725             llFlag2      = %True
726         End If
727         If lcase$( Right$( lsaFiles(llC1), 6)) = ".stats" Then
728             llFlag1      = %True
729             llFlag2      = %True
730         End If
731         If ((lcase$( Right$( lsaFiles(llC1), 11)) = "session.cnd") AND (lcase$( Right$( lsaFiles(llC1), 15)) <> "biz.session.cnd")) Then
732             llFlag1      = %True
733             If MetaSearch( lsaMeta(), llFolderPathNum, "Session") <> "NoReset" Then
734                 llFlag2      = %True
735             End If
736         End If
737         If lcase$( Right$( lsaFiles(llC1), 10)) = ".TwoFactor" Then
738             llFlag1      = %True
739             llFlag2      = %True
740         End If
741         lsTmp      = lsWork + lsaFiles(llC1)
742         IF llFlag1 = %True THEN
743             Incr      llC21
744             lsaFiles1(llC21)      = lsTmp
745         End If
746         IF llFlag2 = %True THEN
747             Incr      llC22
748             lsaFiles2(llC22)      = lsTmp
749         End If
750     Next
751     lsResult      += $CrLf + "counts " + format$(UBOUND(lsaFiles)) + " " + format$(llC21) + " " + format$(llC22)
752
753     REDIM PRESERVE lsaFiles1(1 TO llC21)
754     REDIM PRESERVE lsaFiles2(1 TO llC22)
755
756     If llC21 THEN
757         sFilePut      lsWork + $PreProcListFile, Join$( lsaFiles1(), $CrLf)
758         lsResult      += $CrLf + "<PreProcListFile Archiving>" + Join$( lsaFiles1(), ", ") + "</PreProcListFile>"
759         lsCommand      = "7za a -tzip -ssw"
760         lsCommand      += " -w" + $DQ + lsHomeFldr + $ProgramName + $DQ
761         lsCommand      += " -i@" + $DQ + lsWork + $PreProcListFile + $DQ
762         lsCommand      += " " + $DQ + mDEST_LOG + "\" + StampItDateHM + ".zip" + $DQ
763         llBrokenFlag      = ResultFlagOnShellExec( "ShellExec7za", lsWork, lsHomeFldr, lsCommand, lsResult, $FlagIfNotIncludes, "Everything is Ok")
764         KILL          lsWork + $PreProcListFile
765
766     REM 'Test to ensure "Everything is Ok" prior to deleting original (unZipped) file(s)
767     If llBrokenFlag = %False Then
768         'The zipping occurs into a tmp file which is then copied into the final file

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769 'The test occurs on the final file
770 'Therefore, we need a 1 sec timer to ensure that the final file is completely written
771 '
772 SLEEP 1000
773 lsCommand      = "7za t -tzip"
774 lsCommand      += " " + $DQ + mDEST_LOG + "\" + StampItDateHM + ".zip" + $DQ
775 llBrokenFlag   = ResultFlagOnShellExec( "ShellExec7za", lsWork, lsHomeFldr, lsCommand, lsResult, $FlagIfNotIncludes, "Everything is Ok")
776 IF llBrokenFlag = 0 THEN
777     'Only if everything is good can we delete the orig files
778     'lsResult      += $CrLf + "<PreProcListFile Deleting>" + Join$( lsaFiles(), ", ") + "</PreProcListFile>"
779     'sFilePut      = lsWork + $PreProcListFile, Join$( lsaFiles(), $CrLf)
780     'lsCommand     = "FOR /F %I IN ( " + lsWork + $PreProcListFile + " ) DO DEL " + $DQ + "%I" + $DQ
781     'llBrokenFlag  = ResultFlagOnShellExec( "ShellExec", lsWork, lsHomeFldr, lsCommand, lsResult, $FlagIfNotEmpty, "")
782     'KILL          lsWork + $PreProcListFile
783
784     lsResult      += $CrLf + "<PreProcListFile Deleting>" + Join$( lsaFiles2(), ", ") + "</PreProcListFile>"
785     sFilePut      = lsWork + $PreProcListFile, Join$( lsaFiles2(), $CrLf)
786     lsCommand     = "FOR /F %I IN ( " + lsWork + $PreProcListFile + " ) DO DEL " + $DQ + "%I" + $DQ
787     llBrokenFlag  = ResultFlagOnShellExec( "ShellExec", lsWork, lsHomeFldr, lsCommand, lsResult, $FlagIfNotEmpty, "")
788     KILL          lsWork + $PreProcListFile
789
790 ELSE
791     'We have a broken zip file
792     llBrokenFlag  = %True
793 END IF
794
795 ELSE
796     'We have a broken zip file
797     llBrokenFlag  = %True
798 END IF
799
800 IF llBrokenFlag = %True THEN
801     'If we have a broken zip file
802     lsResult      += $CRLF + "Error: 7za Failure: log file did not compress properly. Original log file intact."
803 END IF
804
805 ELSE
806     lsResult      += $CRLF + "Error: sGetFileNamesOnly returned 0 files. 'Zip/Move/Save logs' files were not zipped"
807 End If
808
809 mCommitLog
810 End If
811
812 REM 'Remove old TwoFactor file
813 if glLogRotate Then
814     KILL          lsWork + "Moxie.TwoFactor"
815 End If
816
817 REM 'Perform RunNightly.mox if found
818 if glLogRotate Then
819     IF LEN( DIR$(lsWork + "RunNightly.mox")) THEN
820         REM 'Perform Daily on SSL enabled servers or not
821         IF VAL(lsaFolderPath(%HttpsPort, llFolderPathNum)) = 443 THEN
822             lsCommand      = "CD /D " + $DQ + lsWork + $DQ + " && Moxie.exe " + $DQ + "RunNightly.mox?TwoFactorAudit=y" + $DQ
823         ELSE
824             lsCommand      = "CD /D " + $DQ + lsWork + $DQ + " && Moxie.exe " + $DQ + "RunNightly.mox" + $DQ
825         END IF
826
827         llBrokenFlag       = ResultFlagOnShellExec( "ShellExec", lsWork, lsHomeFldr, lsCommand, lsResult, $Ignore, "")
828         mCommitLog
829     END IF
830 End If
831
832 REM 'Gather and PreProcess all "TwoFactor" files for later processing
833 if glLogRotate Then
834     IF LEN( DIR$(lsWork + "Moxie.TwoFactor")) THEN
835         sFileGet      = lsWork + "Moxie.TwoFactor", lsData, llLof
836         lsData         = REMAIN$( lsData, $CrLf)
837
838         llC1           = parsecount( lsData, $CRLF)
839         Redim          lsaTmp( 1 to llC1)
840         Parse          lsData, lsaTmp(), $CRLF
841         Reset          lsData
842
843         For llC2 = 1 to llC1
844             ' insert an Alias field
845             lsaTmp( llC2) = format$(llFolderPathNum, "000") + Format$(llC2, "0000000") + $Tab + lsaTmp( llC2)
846         NEXT
847     END IF
848 END IF

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```

846      lsData = Join$( lsaTmp(), $CrLf)
847
848      REPLACE $CrLf WITH chr$(0) IN lsData
849      REPLACE $Tab WITH chr$(1) IN lsData
850      sFilePut ".\Moxie\Recv\" + format$(llFolderPathNum, "000") + ".twofactor.cnd", lsData
851      Reset
852
853
854      lsTmp = "Alias" + chr$(1) + "Alias" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
855      += "F01" + chr$(1) + "F01Site" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
856      lsTmp += "F02" + chr$(1) + "F02Type" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
857      += "F03" + chr$(1) + "F03ID" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
858      lsTmp += "F04" + chr$(1) + "F04Handle" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
859      += "F05" + chr$(1) + "F05Name" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
860      lsTmp += "F06" + chr$(1) + "F06TwoFactor" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1)
861
862      sFilePut ".\Moxie\Recv\twofactor.cnt", TRIM$( lsTmp, chr$(0))
863      Reset
864
865      lsResult += $CrLf + "Moxie.TwoFactor PreProcessed"
866      END IF
867  End If
868
869  REM 'Remove DBStore files that are marked for deletion (DBStore\*.del)
870  if glLogRotate Then
871      lsCommand = "IF EXIST " + $DQ + lsWork + "DBStore\*.del" + $DQ + " (DEL " + $DQ + lsWork + "DBStore\*.del" + $DQ + ")"
872      llBrokenFlag = ResultFlagOnShellExec( "ShellExec", "", "", lsCommand, lsResult, $FlagIfNotEmpty, "")
873      mCommitLog
874  End If
875
876  REM 'Force Email-if-serious-error address
877  if glLogRotate Then
878      lsFile = lsWork + "DBStore\Setup.cnd"
879      sFileGet lsFile, lsData, llLOF
880
881      llC1 = parsecount( lsData, $SEP_NUL)
882      Redim lsaTmp( 1 to llC1)
883      Redim lsaData( 1 to llC1)
884      Parse lsData, lsaTmp(), $SEP_NUL
885
886      Rem 'Remove old Setup values
887      llC2 = 0
888      For llC3 = 1 to llC1
889          SELECT CASE AS CONST$ Lcase$( Extract$( lsaTmp(llC3), $SEP_SOH))
890              Case "cnw.emailerfrom", "cnw.emailercto", "cnw.emailipadminfrom", "cnw.emailipadminto"
891                  'punt these values in favour of below values
892              Case else
893                  Incr llC2
894                  lsaData(llC2) = lsaTmp(llC3)
895          End Select
896      Next
897      REDIM PRESERVE lsaData( 1 TO llC2)
898      lsData = join$( lsaData(), $SEP_NUL)
899
900      Rem 'Append New Setup Values or default values if no Meta flag given
901      lsTmp = MetaSearch( lsaMeta(), llFolderPathNum, "Cnw.EmailErrFrom")
902      If Len( lsTmp) Then
903          lsData += $SEP_NUL + "Cnw.EmailErrFrom" + $SEP_SOH + lsTmp
904      Else
905          lsData += $SEP_NUL + "Cnw.EmailErrFrom" + $SEP_SOH + lsForceCnwEmailErr
906      End If
907
908      lsTmp = MetaSearch( lsaMeta(), llFolderPathNum, "Cnw.EmailErrTo")
909      If Len( lsTmp) Then
910          lsData += $SEP_NUL + "Cnw.EmailErrTo" + $SEP_SOH + lsTmp
911      Else
912          lsData += $SEP_NUL + "Cnw.EmailErrTo" + $SEP_SOH + lsForceCnwEmailErr
913      End If
914
915      lsTmp = MetaSearch( lsaMeta(), llFolderPathNum, "Cnw.EmailIPAdminFrom")
916      If Len( lsTmp) Then
917          lsData += $SEP_NUL + "Cnw.EmailIPAdminFrom" + $SEP_SOH + lsTmp
918      Else
919          lsData += $SEP_NUL + "Cnw.EmailIPAdminFrom" + $SEP_SOH + lsForceCnwEmailErr
920      End If
921
922      lsTmp = MetaSearch( lsaMeta(), llFolderPathNum, "Cnw.EmailIPAdminTo")

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```

923         If Len( lsTmp) Then
924             lsData
925         Else
926             lsData
927         End If
928
929         Rem 'Maintain Moxie Sort
930         llC1
931         Redim
932         Parse
933         ARRAY SORT
934         lsData
935
936         sFilePut
937
938         lsResult
939         mCommitLog
940     End If
941
942     REM 'ServiceStart
943     if glLogRotate OR glAllOn Then
944         lsCommand
945         llBrokenFlag
946         mCommitLog
947     End If
948
949     lsResult += $CRLF + lsFooter
950     mCommitLog
951
952     ELSE
953     IF LEN( lsaFolderPath(%FolderRoot, llFolderPathNum)) THEN
954         lsResult
955         glFinalResult
956         gsFinalMessage
957         CommitLog lsHomeFldr, lsResult
958     END IF
959 END IF
960 NEXT
961
962 REM 'Post processing of earlier Stats snapshots
963 If glLogStats then
964     FinalizeLog
965     FinalizeStats
966     'ConductAudit
967     'CommitAudit
968 End If
969
970 REM 'Post processing of earlier Log snapshots
971 If glLogRotate then
972     FinalizeTwoFactor
973 End If
974
975 REM 'Perform MoxLogsRecv.mox to do final processing and push stats into server
976 IF LEN( DIR$(lsHomeFldr + "Moxie\Moxie.PreProc.mox")) THEN
977     If glLogRotate OR glLogStats THEN
978         'NOTE: This is a batch file, it has to be executed as:
979         ' Moxie.exe "Moxie.PreProc.mox?Stamp=2014-07-04-1800&Stats=y&Rotate=y&MoxieOnError=Kerry.Kelbert@KerrTek.net"
980         lsCommand
981         lsCommand
982         lsCommand
983         lsCommand
984         lsCommand
985         lsCommand
986         llBrokenFlag
987         mCommitLog
988     END IF
989 END IF
990
991 REM 'Create and send email detailing failure/success codes then return Final Result code
992 PrematureExit:
993
994     Select Case as const glFinalResult
995     case 0 : llIsCritical = %False :
996     CASE 1 : llIsCritical = %True : gsFinalMessage += $CRLF + "Invalid command line arguments. "
997         gsFinalMessage += $CRLF + " " + lsCommand
998         gsFinalMessage += $CRLF + "Command line syntax is:"
999         gsFinalMessage += $CRLF + " c:\Util\PreProc>%comspec% /z /c PreProc /logrotate /stats /quiet"

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1000      gsFinalMessage += $CRLF + "Or if run as a task:"
1001      gsFinalMessage += $CRLF + " PreProc /logrotate /stats /quiet [ with path set to: c:\Util\PreProc ]"
1002
1003      'As CASE 1 can be triggered by improper command line options, allow a printed final result
1004      sFilePut "PreProc.FinalResult.log", TRIM$(gsFinalMessage, $CRLF)
1005
1006      case 2      : llIsCritical = %False      : 'text has been handled already
1007      case 3      : llIsCritical = %True       : 'text has been handled already
1008      case 4      : llIsCritical = %True       : 'text has been handled already
1009      case 5      : llIsCritical = %True       : 'text has been handled already
1010      case 6      : llIsCritical = %True       : 'text has been handled already
1011      case 7      : llIsCritical = %True       : 'text has been handled already
1012      case 8      : llIsCritical = %True       : 'text has been handled already
1013      case else   : llIsCritical = %True       : gsFinalMessage += $CRLF + "An un-handled message (gsFinalMessage = " + format$(glFinalResult) + ") has occurred; hope thats ok."
1014  End Select
1015
1016  If glLogQuiet THEN
1017      CommitLog      lsHomeFldr, TRIM$( lsResult, $CRLF) + $CRLF + TRIM$( gsFinalMessage, $CRLF)
1018  Else
1019      REM 'Make Email Header, Message, etc
1020      lsEmailSubject = "[PreProc] " + ENVIRON$("COMPUTERNAME") + " " + IIF$(llIsCritical, "Error", "Success")
1021      lsPreProcEmail = "[MAIL SERVER]" + $CRLF + Trim$( lsMailServer, $CRLF) + $CRLF + $CRLF
1022      lsPreProcEmail += "[MAIL SERVER PORT]" + $CRLF + Trim$( lsMailServerPort, $CRLF) + $CRLF + $CRLF
1023      lsPreProcEmail += "[FROM]" + $CRLF + Trim$( lsMailFrom, $CRLF) + $CRLF + $CRLF
1024      lsPreProcEmail += "[SUBJECT]" + $CRLF + Trim$( lsEmailSubject, $CRLF) + $CRLF + $CRLF
1025      lsPreProcEmail += "[EMAIL MESSAGE]" + $CRLF + Trim$( gsFinalMessage, $CRLF) + $CRLF + "[END]" + $CRLF + $CRLF
1026      IF llIsCritical = %False Then
1027          lsData = lsEmailNoError
1028      ELSE
1029          lsData = lsEmailOnError
1030      END IF
1031
1032      REM 'Send email. One per address. Remove empty addresses.
1033      llC1 = parsecount( lsData, $CRLF)
1034      llC3 = 0
1035      Redim lsaData( 1 to llC1)
1036      Parse lsData, lsaData(), $CRLF
1037      for llC2 = 1 to llC1
1038          lsTmp = trim$( lsaData( llC2), ANY $WHITESPACE)
1039          if len( lsTmp) THEN
1040              incr llC3
1041              lsaData( llC3) = lsTmp
1042          End If
1043      Next
1044      If llC3 Then
1045          for llC2 = 1 to llC3
1046              sFilePut "PreProc.Email", lsPreProcEmail + "[SEND TO (ONE ADDRESS PER LINE)]" + $CRLF + lsaData( llC2) + $CRLF + "[END]"
1047              ENVIRON$("COMSPEC") + " /C PwrMail.exe PreProc.email 2>&1" , 0
1048              KILL "PreProc.Email"
1049          nEXT
1050      End If
1051  End If
1052
1053  mCommitLog
1054
1055  REM 'Move/Zip PreProc, MoxView & MoxLogsRecv.mox logs: 1x/day
1056  if glLogRotate Then
1057      'Clear LOCAL memory space
1058      lsResult = ""
1059      lsTmp = ""
1060      lsDest = lsBackupRootFolder + "zPreProc\" + StampItDateHM + ".zip"
1061
1062      'Amalgamate all xxx.log.tab files into one (use MergeTabFiles.bas code)
1063      For llFolderPathNum = 1 to UBOUND( lsaFolderPath(2))
1064          sFileGet ".\Moxie\Recv\" + format$(llFolderPathNum, "000") + ".log.tab", lsData, llLof
1065          if llFolderPathNum = 1 then
1066              lsHeader = Extract$( lsData, $CRLF)
1067              lsTmp += $CRLF + REMAIN$( lsData, $CRLF)
1068          Next
1069          lsData = ""
1070          sFilePut ".\Moxie\Recv\log.tab", lsHeader + $CRLF + Trim$( lsTmp, $CRLF)
1071          lsTmp = ""
1072      'move all PreProc logs into Moxie\Recv\PreProc folder
1073      lsCommand = "MKDIR " + lsHomeFldr + "Moxie\Recv\PreProc"
1074      llBrokenFlag = ResultFlagOnShellExec( "ShellExec", "", "", lsCommand, lsResult, $Ignore, "")
1075
1076      lsCommand = "MOVE /Y " + ".\PreProc\*. *" + " " + ".\Moxie\Recv\PreProc"

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1077     llBrokenFlag = ResultFlagOnShellExec( "ShellExec", "", "", lsCommand, lsResult, $Ignore, "" )
1078
1079     'Copy SendGrid results into Moxie\Recv folder folder
1080     lsCommand = "COPY /Y " + ".\Moxie\Work\SendGrid\*.tab" + " " + ".\Moxie\Recv"
1081     llBrokenFlag = ResultFlagOnShellExec( "ShellExec", "", "", lsCommand, lsResult, $Ignore, "" )
1082
1083     'Move all Moxie logs into Moxie\Recv\Moxie folder folder
1084     lsCommand = "MKDIR " + lsHomeFldr + "Moxie\Recv\Moxie"
1085     llBrokenFlag = ResultFlagOnShellExec( "ShellExec", "", "", lsCommand, lsResult, $Ignore, "" )
1086
1087     lsCommand = "MOVE /Y " + ".\Moxie\History\*.*)" + " " + ".\Moxie\Recv\Moxie"
1088     llBrokenFlag = ResultFlagOnShellExec( "ShellExec", "", "", lsCommand, lsResult, $Ignore, "" )
1089 End If
1090
1091 if glLogRotate OR glAllOff OR glAllOn Then
1092     'Parse lsMoxViewFolder - Moxie.cfg to find the ServiceName
1093     sFileGet lsMoxViewFolder + "Moxie.cfg", lsData, llLen
1094     lsFile = TRIM$( EXTRACT$( REMAIN$( lsData, $cfgServiceName ), $CRLF))
1095 End If
1096
1097 if glLogRotate OR glAllOff Then
1098     'Stop MoxView
1099     lsCommand = "NET STOP " + $DQ + lsFile + $DQ
1100     llBrokenFlag = ResultFlagOnShellExec( "ShellExec", lsMoxViewFolder, "", lsCommand, lsResult, $Ignore, "" )
1101 End If
1102
1103 if glLogRotate Then
1104     'Move all MoxView\History into Moxie\Recv\MoxView folder
1105     lsCommand = "MKDIR " + lsHomeFldr + "Moxie\Recv\MoxView"
1106     llBrokenFlag = ResultFlagOnShellExec( "ShellExec", "", "", lsCommand, lsResult, $Ignore, "" )
1107
1108     lsCommand = "MOVE /Y " + lsMoxViewFolder + "History\*.*)" + " " + lsHomeFldr + "Moxie\Recv\MoxView"
1109     llBrokenFlag = ResultFlagOnShellExec( "ShellExec", lsMoxViewFolder, "", lsCommand, lsResult, $Ignore, "" )
1110 End If
1111
1112 if glLogRotate OR glAllOn Then
1113     'Start MoxView
1114     lsCommand = "NET START " + $DQ + lsFile + $DQ
1115     llBrokenFlag = ResultFlagOnShellExec( "ShellExec", lsMoxViewFolder, "", lsCommand, lsResult, $Ignore, "" )
1116 End If
1117
1118 if glLogRotate Then
1119     'Perform Zip of Recv and move into C:\Backup\PreProc
1120     lsCommand = "7za a -tzip -r -ssw"
1121     lsCommand += " -w" + $DQ + lsHomeFldr + $ProgramName + $DQ
1122     lsCommand += " " + $DQ + lsDest + $DQ
1123     lsCommand += " " + $DQ + lsHomeFldr + "Moxie\Recv" + $DQ
1124     llBrokenFlag = ResultFlagOnShellExec( "ShellExec7za", "", lsHomeFldr, lsCommand, lsResult, $Ignore, "" )
1125 End If
1126
1127 if glLogRotate OR glAllOff OR glAllOn Then
1128     'leave everything in Recv as it will be removed on the next run
1129     sFilePut "PreProc.FinalResult.log", TRIM$(lsResult, $CRLF)
1130 End If
1131
1132 FUNCTION = glFinalResult
1133 END FUNCTION
1134
1135 REM SubRoutines
1136
1137 SUB FinalizeTwoFactor( plFolderCount AS LONG)
1138     local lsData, lsHeader, lsaHeader() as string
1139     local llC1, llC2, llSite, llLof as long
1140
1141     Rem 'create header for log.tab
1142     sFileGet ".\Moxie\Recv\twofactor.cnt", lsHeader, llLof
1143     KILL ".\Moxie\Recv\twofactor.cnt"
1144
1145     llC1 = parsecount( lsHeader, $SEP_NUL)
1146     Redim lsaHeader( 1 to llC1)
1147     parse lsaHeader, lsaHeader(), $SEP_NUL
1148     for llC2 = 1 to llC1
1149         lsaHeader( llC2) = parse$( lsaHeader( llC2), $SEP_SOH, 2)
1150     Next
1151
1152     REM 'Per_Site
1153     For llSite = 1 to plFolderCount

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1154         if DIR$( ".\Moxie\Recv\" + format$(llSite, "000") + ".twofactor.cnd") = format$(llSite, "000") + ".twofactor.cnd" THEN
1155             REM 'This iterations data
1156             sFileGet          ".\Moxie\Recv\" + format$(llSite, "000") + ".twofactor.cnd", lsData, llLof
1157             KILL              ".\Moxie\Recv\" + format$(llSite, "000") + ".twofactor.cnd"
1158
1159             Rem 'Pack and save all data for the Moxie program & posterity
1160             Replace           $SEP_NUL with $CRLF in lsData
1161             Replace           $SEP_SOH with $TAB in lsData
1162             sFilePut          ".\Moxie\Recv\" + format$(llSite, "000") + ".twofactor.tab", join$( lsaHeader(), $Tab) + $CrLf + lsData
1163         End If
1164     Next
1165 end sub
1166
1167 SUB FinalizeStats( plFolderCount AS LONG)
1168     local lsData, lsHeader, lsaHeader() as string
1169     local llC1, llC2, llSite, llLof as long
1170
1171     Rem 'create header for log.tab
1172     sFileGet          ".\Moxie\Recv\stats.cnt", lsHeader, llLof
1173     KILL              ".\Moxie\Recv\stats.cnt"
1174
1175     llC1              = parsecount( lsHeader, $SEP_NUL)
1176     Redim              lsaHeader( 1 to llC1)
1177     parse             lsHeader, lsaHeader(), $SEP_NUL
1178     for llC2 = 1 to llC1
1179         lsaHeader( llC2) = parse$( lsaHeader( llC2), $SEP_SOH, 2)
1180     Next
1181
1182     REM 'Per Site
1183     For llSite = 1 to plFolderCount
1184         REM 'This iterations data
1185         sFileGet          ".\Moxie\Recv\" + format$(llSite, "000") + ".stats.cnd", lsData, llLof
1186         KILL              ".\Moxie\Recv\" + format$(llSite, "000") + ".stats.cnd"
1187
1188         Rem 'Pack and save all data for the Moxie program & posterity
1189         Replace           $SEP_NUL with $CRLF in lsData
1190         Replace           $SEP_SOH with $TAB in lsData
1191         sFilePut          ".\Moxie\Recv\" + format$(llSite, "000") + ".stats.tab", join$( lsaHeader(), $Tab) + $CrLf + lsData
1192     Next
1193 end sub
1194
1195 SUB FinalizeLog( plFolderCount AS LONG)
1196     local lsFolderPath, lsIP1, lsIP2, lsIP3, lsIP4, lsData, lsaData(), lsCtry, lsaCtry(), lsaCountry(), lsCtryHeader, lsTmp, lsaTmp(), lsFinal, lsHeader, lsaHeader(), lsLastStatsSnapshot as string
1197     local llC1, llC2, llC3, llLof, llSite, llCtryCount as long
1198     local ldata, ldataCtry(), ldataCtry2() as dword
1199
1200     Rem 'create header for log.tab
1201     'note: the default sort order is 'most recent entry last'
1202     sFileGet          ".\Moxie\Recv\log.cnt", lsHeader, llLof
1203     KILL              ".\Moxie\Recv\log.cnt"
1204
1205     llC1              = parsecount( lsHeader, $SEP_NUL)
1206     Redim              lsaHeader( 1 to llC1)
1207     parse             lsHeader, lsaHeader(), $SEP_NUL
1208     for llC2 = 1 to llC1
1209         lsaHeader( llC2) = parse$( lsaHeader( llC2), $SEP_SOH, 2)
1210     Next
1211
1212     REM 'IPv4ToCountry: Load and prep for searches
1213     sFileGet          ".\IpToCountry\Ip2Country.tab", lsCtry, llLof
1214     lsCtryHeader      = Extract$( lsCtry, $CRLF)
1215     lsCtry            = remain$( lsCtry, $CRLF)
1216     llCtryCount       = parsecount( lsCtry, $CRLF)
1217
1218     Redim              lsaCtry( 1 to llCtryCount)
1219     Redim              lsaCountry( 1 to llCtryCount)
1220     Redim              ldataCtry( 1 to llCtryCount)
1221     Redim              ldataCtry2( 1 to llCtryCount)
1222     Parse             lsCtry, lsaCtry(), $CRLF
1223
1224     For llC1 = 1 to llCtryCount
1225         ldataCtry(llC1) = val( parse$( lsaCtry(llC1), $Tab, 1))
1226     Next
1227     ARRAY SORT ldataCtry(), TAGARRAY lsaCtry()
1228     For llC1 = 1 to llCtryCount
1229         ldataCtry2(llC1) = val( parse$( lsaCtry(llC1), $Tab, 2))
1230         lsaCountry(llC1) = parse$( lsaCtry(llC1), $Tab, 7)

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```

1231 Next
1232
1233 REM 'Per Site
1234 For llSite = 1 to plFolderCount
1235
1236 REM 'This iterations snapshot datestamp
1237 sFileGet = ".\Moxie\Recv\" + format$(llSite, "000") + ".snapshot.tab", lsData, llLof
1238 lsLastStatsSnapshot = Remain$( lsData, $CRLF)
1239 lsLastStatsSnapshot = EXTRACT$( lsLastStatsSnapshot, $TAB)
1240
1241 REM 'This iterations data
1242 sFileGet = ".\Moxie\Recv\" + format$(llSite, "000") + ".log.cnd", lsData, llLof
1243 KILL = ".\Moxie\Recv\" + format$(llSite, "000") + ".log.cnd", lsData, llLof
1244 llC1 = parsecount( lsData, $SEP_NUL)
1245 Redim lsaData( 1 to %Tedata + 1, 1 to llC1)
1246 Redim lsaTmp( 1 to llC1)
1247
1248 Parse lsData, lsaTmp(), $SEP_NUL
1249
1250 For llC2 = 1 to llC1
1251 For llC3 = 1 to %Tedata
1252 lsaData( llC3, llC2) = parse$( lsaTmp( llC2), $SEP_SOH, llC3)
1253 Next
1254 Next
1255
1256 REM 'IP address lookup is done by using IP10 values
1257 'http://stackoverflow.com/questions/10668831/how-to-efficiently-index-and-search-ipv4-address-ranges-in-c-sharp
1258 'http://en.wikipedia.org/wiki/Binary_search_algorithm#Recursive
1259 For llC2 = 1 to llC1
1260 If LEN( lsaData( %F09eIPNum, llC2)) _
1261 AND "127.0.0.1" <> lsaData( %F09eIPNum, llC2) _
1262 AND "ECom" <> lsaData( %F05eCategory, llC2) _
1263 AND lsLastStatsSnapshot <= lsaData( %F03eTimeStamp, llC2) _
1264 Then
1265 lsIP1 = parse$( lsaData( %F09eIPNum, llC2), ".", 1)
1266 lsIP2 = parse$( lsaData( %F09eIPNum, llC2), ".", 2)
1267 lsIP3 = parse$( lsaData( %F09eIPNum, llC2), ".", 3)
1268 lsIP4 = parse$( lsaData( %F09eIPNum, llC2), ".", 4)
1269 ldData = (val(lsIP1) * 16777216) + (val(lsIP2) * 65536) + (val(lsIP3) * 256) + val(lsIP4)
1270
1271 Rem 'for a given data record, find where it fits between in an Ctry record
1272 For llC3 = 1 to llCtryCount
1273 If ldData => ldaCtry(llC3) _
1274 AND ldData < ldaCtry2(llC3) _
1275 THEN
1276 lsaData( %F21eCountry, llC2) = lsaCountry(llC3)
1277 exit
1278 END IF
1279 NEXT
1280 End If
1281 Next
1282
1283 REM 'Pack and save this iterations data
1284 For llC2 = 1 to llC1
1285 lsaTmp( llC2) = lsaData( %F00eAlias , llC2) + $Tab + _
1286 lsaData( %F01eFolderName , llC2) + $Tab + _
1287 lsaData( %F02eLogLocation , llC2) + $Tab + _
1288 lsaData( %F03eTimeStamp , llC2) + $Tab + _
1289 lsaData( %F04eThread , llC2) + $Tab + _
1290 lsaData( %F05eCategory , llC2) + $Tab + _
1291 lsaData( %F06eMessage , llC2) + $Tab + _
1292 lsaData( %F07eDetails , llC2) + $Tab + _
1293 lsaData( %F08eBytes , llC2) + $Tab + _
1294 lsaData( %F09eIPNum , llC2) + $Tab + _
1295 lsaData( %F10eThreadNum , llC2) + $Tab + _
1296 lsaData( %F11eThreadTime , llC2) + $Tab + _
1297 lsaData( %F12ePersonUUID , llC2) + $Tab + _
1298 lsaData( %F13eSessionUUID , llC2) + $Tab + _
1299 lsaData( %F14eDatum1 , llC2) + $Tab + _
1300 lsaData( %F15eDatum2 , llC2) + $Tab + _
1301 lsaData( %F16eDatum3 , llC2) + $Tab + _
1302 lsaData( %F17eDatum4 , llC2) + $Tab + _
1303 lsaData( %F18eMessageCode , llC2) + $Tab + _
1304 lsaData( %F19eMoxVerMajor , llC2) + $Tab + _
1305 lsaData( %F20eMoxVerMinor , llC2) + $Tab + _
1306 lsaData( %F21eCountry , llC2)
1307 Next

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```

1308 Rem 'Pack and save all data for the Moxie program & posterity
1309 sFilePut
1310 ".\Moxie\Recv\" + format$(llSite, "000") + ".log.tab", join$( lsaHeader(), $Tab) + $CrLf + Join$( lsaTmp(), $CrLf)
1311 Next
1312 END SUB
1313
1314 FUNCTION UpdateTally( psIndex AS STRING, psaIndex() AS STRING, psaTally() AS STRING) AS LONG
1315 LOCAL lsIndex AS STRING
1316 LOCAL llIndex, llC1 AS LONG
1317
1318 llIndex = UBOUND(psaIndex(1))
1319 lsIndex = TRIM$(psaIndex)
1320
1321 IF LEN(lsIndex) THEN
1322 IF llIndex THEN
1323 FOR llC1 = 1 TO llIndex
1324 IF psaIndex(llC1) = lsIndex THEN EXIT FOR
1325 NEXT
1326 IF llC1 > llIndex THEN
1327 INCR llIndex
1328 REDIM psaIndex(1 TO llIndex), psaTally(1 TO llIndex)
1329 psaIndex(llIndex) = lsIndex
1330 psaTally(llIndex) = FORMAT$(1)
1331 ARRAY SORT psaIndex(), COLLATE UCASE, TAGARRAY psaTally()
1332 ELSEIF psaIndex(llC1) = lsIndex THEN
1333 psaTally(llC1) = FORMAT$(VAL(psaTally(llC1)) + 1)
1334 END IF
1335 ELSE
1336 INCR llIndex
1337 REDIM psaIndex(1 TO llIndex), psaTally(1 TO llIndex)
1338 psaIndex(1) = lsIndex
1339 psaTally(1) = FORMAT$(1)
1340 END IF
1341 END IF
1342 END FUNCTION
1343
1344 SUB GatherLogFilesAndPreProcess( psaFolderPath() as string, plFolderPathNum as long, psaFiles() as string, psResult as string)
1345 LOCAL lsaFiles() AS STRING
1346 LOCAL lsVerMajor, lsVerMinor, lsTmp, lsaTmp(), lsaSrt(), lsTemp, lsData, lsaData() as string
1347 LOCAL llC1, llC2, llC3, llC4, llLOF AS LONG
1348
1349 REM 'seperate all the log files found into lines
1350 For llC1 = 1 to UBOUND(psaFiles)
1351 sFileGet
1352 lsTmp = Trim$( lsTmp, $CRLF)
1353 llC4 = parsecount( lsTmp, $CRLF)
1354 Redim lsaTmp( 1 to llC4)
1355 Parse lsTmp, lsaTmp(), $CRLF
1356 For llC3 = 1 to llC4
1357 lsaTmp(llC3) = psaFolderPath( %FolderObject, plFolderPathNum) + $Tab + psaFiles(llC1) + $Tab + lsaTmp(llC3)
1358 Next
1359 lsData += Join$( lsaTmp(), $CRLF) + $CRLF
1360 Next
1361
1362 lsData = Trim$( lsData, $CrLf)
1363
1364 REM 'and now start to make a single tab delimited table
1365 llC1 = parsecount( lsData, $CRLF)
1366
1367 Redim lsaTmp( 1 to llC1)
1368 Parse lsData, lsaTmp(), $CRLF
1369 Reset lsData
1370
1371 Redim lsaData( 1 to %Tdata, 1 to llC1)
1372 For llC2 = 1 to llC1
1373 For llC3 = 1 to %Tdata
1374 lsaData( llC3, llC2) = PARSE$(lsaTmp(llC2), $TAB, llC3)
1375 Next
1376 NEXT
1377 RESET lsaTmp()
1378
1379 REM 'While everything is in sequence, save the Moxie Version decryption key
1380 For llC2 = 1 to llC1
1381 Select Case as const$ LCASE$( lsaData( %F05_Category , llC2))
1382 case "-server started-", "-server stopped-", "-cmdmox started-", "-cmdmox stopped-"
1383 lsVerMajor = ""
1384 lsVerMinor = ""

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1385
1386 case "moxie version"
1387 lsVerMajor = Extract$( lsaData( %F06_Message, 11C2), " ")
1388 lsVerMinor = remain$( lsaData( %F06_Message, 11C2), " ")
1389
1390 CASE "http", "https"
1391 11C4 = Val( Extract$( lsaData( %F06_Message, 11C2), " "))
1392 If 11C4 Then lsaData( %F18_MessageCode, 11C2) = format$( 11C4)
1393
1394 CASE "run time error" : 'Deconstruct any run time error
1395 lsaData( %F06_Message, 11C2) = _
1396 lsaData( %F06_Message , 11C2) + $SEP_TAB + _
1397 lsaData( %F07_Details , 11C2) + $SEP_TAB + _
1398 lsaData( %F08_Bytes , 11C2) + $SEP_TAB + _
1399 lsaData( %F09_IPNum , 11C2) + $SEP_TAB + _
1400 lsaData( %F10_ThreadNum , 11C2) + $SEP_TAB + _
1401 lsaData( %F11_ThreadTime , 11C2) + $SEP_TAB + _
1402 lsaData( %F12_PersonUUID , 11C2) + $SEP_TAB + _
1403 lsaData( %F13_SessionUUID , 11C2) + $SEP_TAB + _
1404 lsaData( %F14_Datum1 , 11C2) + $SEP_TAB + _
1405 lsaData( %F15_Datum2 , 11C2) + $SEP_TAB + _
1406 lsaData( %F16_Datum3 , 11C2) + $SEP_TAB + _
1407 lsaData( %F17_Datum4 , 11C2) + $SEP_TAB + _
1408 lsaData( %F18_MessageCode , 11C2) + $SEP_TAB
1409
1410 lsaData( %F06_Message, 11C2) = TRIM$( lsaData( %F06_Message, 11C2), $SEP_TAB)
1411 lsaData( %F07_Details , 11C2) = ""
1412 lsaData( %F08_Bytes , 11C2) = ""
1413 lsaData( %F09_IPNum , 11C2) = ""
1414 lsaData( %F10_ThreadNum , 11C2) = ""
1415 lsaData( %F11_ThreadTime , 11C2) = ""
1416 lsaData( %F12_PersonUUID , 11C2) = ""
1417 lsaData( %F13_SessionUUID , 11C2) = ""
1418 lsaData( %F14_Datum1 , 11C2) = ""
1419 lsaData( %F15_Datum2 , 11C2) = ""
1420 lsaData( %F16_Datum3 , 11C2) = ""
1421 lsaData( %F17_Datum4 , 11C2) = ""
1422 lsaData( %F18_MessageCode , 11C2) = ""
1423
1424 CASE "login" : 'Reconstruct Login
1425 lsaData( %F12_PersonUUID, 11C2) = lsaData( %F09_IPNum, 11C2) : lsaData( %F09_IPNum, 11C2) = ""
1426 lsaData( %F15_Datum2, 11C2) = lsaData( %F08_Bytes, 11C2) : lsaData( %F08_Bytes, 11C2) = ""
1427 lsaData( %F14_Datum1, 11C2) = lsaData( %F07_Details, 11C2) : lsaData( %F07_Details, 11C2) = ""
1428
1429 CASE "bademail" : 'Reconstruct BadEmail
1430 lsaData( %F16_Datum3, 11C2) = lsaData( %F09_IPNum, 11C2) : lsaData( %F09_IPNum, 11C2) = ""
1431 lsaData( %F15_Datum2, 11C2) = lsaData( %F08_Bytes, 11C2) : lsaData( %F08_Bytes, 11C2) = ""
1432 lsaData( %F14_Datum1, 11C2) = lsaData( %F07_Details, 11C2) : lsaData( %F07_Details, 11C2) = ""
1433
1434 Case else
1435 End Select
1436
1437 lsaData( %F19_MoxVerMajor , 11C2) = lsVerMajor
1438 lsaData( %F20_MoxVerMinor , 11C2) = lsVerMinor
1439 Next
1440
1441 REM 'F07 breakdown details into datum with error flag
1442 For 11C2 = 1 to 11C1
1443 If Val( lsaData( %F18_MessageCode, 11C2)) Then
1444 lsaData( %F14_Datum1, 11C2) = lcase$( Extract$( lsaData( %F07_Details, 11C2), " "))
1445 lsTmp = lcase$( REMAIN$( lsaData( %F07_Details, 11C2), " "))
1446
1447 lsaData( %F17_Datum4, 11C2) = REMAIN$( lsTmp, " ")
1448 lsTmp = Extract$( lsTmp, " ")
1449
1450 lsaData( %F15_Datum2, 11C2) = Extract$( lsTmp, "?")
1451 lsaData( %F16_Datum3, 11C2) = REMAIN$( lsTmp, "?")
1452 End If
1453
1454 Select Case as const$ LCASE$( lsaData( %F17_Datum4, 11C2))
1455 case "http/1.1", "http/1.0"
1456 'Fail Through
1457 Case else
1458 If len( lsaData( %F18_MessageCode, 11C2)) Then lsaData( %F17_Datum4, 11C2) = ""
1459 End Select
1460
1461 Select Case as const$ LCASE$( lsaData( %F14_Datum1, 11C2))

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1462         case "connect", "trace", "delete", "put", "post", "head", "get", "options"
1463         'Fall Through
1464         Case else
1465             If len( lsaData( %F18_MessageCode, l1c2)) Then lsaData( %F17_Datum4, l1c2) = ""
1466         End Select
1467     Next
1468
1469     REM 'Prep, sort and apply an Alias
1470     Redim lsaTmp( 1 to l1c1), lsaSrt( 1 to l1c1)
1471     For l1c2 = 1 to l1c1
1472         lsaSrt( l1c2) = lsaData( %F03_TimeStamp, l1c2) + $Tab + _
1473             format$(plFolderPathNum, "000") + _
1474             Format$(l1c2, "0000000")
1475
1476         lsaTmp( l1c2) = lsaData( %F01_FolderName , l1c2) + $Tab + _
1477             lsaData( %F02_LogLocation , l1c2) + $Tab + _
1478             lsaData( %F03_TimeStamp , l1c2) + $Tab + _
1479             lsaData( %F04_Thread , l1c2) + $Tab + _
1480             lsaData( %F05_Category , l1c2) + $Tab + _
1481             lsaData( %F06_Message , l1c2) + $Tab + _
1482             lsaData( %F07_Details , l1c2) + $Tab + _
1483             lsaData( %F08_Bytes , l1c2) + $Tab + _
1484             lsaData( %F09_IPNum , l1c2) + $Tab + _
1485             lsaData( %F10_ThreadNum , l1c2) + $Tab + _
1486             lsaData( %F11_ThreadTime , l1c2) + $Tab + _
1487             lsaData( %F12_PersonUUID , l1c2) + $Tab + _
1488             lsaData( %F13_SessionUUID , l1c2) + $Tab + _
1489             lsaData( %F14_Datum1 , l1c2) + $Tab + _
1490             lsaData( %F15_Datum2 , l1c2) + $Tab + _
1491             lsaData( %F16_Datum3 , l1c2) + $Tab + _
1492             lsaData( %F17_Datum4 , l1c2) + $Tab + _
1493             lsaData( %F18_MessageCode , l1c2) + $Tab + _
1494             lsaData( %F19_MoxVerMajor , l1c2) + $Tab + _
1495             lsaData( %F20_MoxVerMinor , l1c2) + $Tab + _
1496             lsaData( %F21_Country , l1c2)
1497
1498     NEXT
1499
1500     ARRAY SORT lsaSrt(), COLLATE UCASE, TAGARRAY lsaTmp()
1501
1502     For l1c2 = 1 to l1c1
1503         lsaTmp( l1c2) = format$(plFolderPathNum, "000") + Format$(l1c2, "0000000") + $Tab + lsaTmp( l1c2)
1504     Next
1505
1506     Reset lsaData()
1507
1508     lsData = Join$( lsaTmp(), $CRLF)
1509     Reset lsaTmp()
1510
1511     REPLACE $CRLF WITH chr$(0) IN lsData
1512     REPLACE $Tab WITH chr$(1) IN lsData
1513     sFilePut ".\Moxie\Recv\" + format$(plFolderPathNum, "000") + ".log.cnt", lsData
1514
1515     lsTmp = "Alias" + chr$(1) + "Alias" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1516     lsTmp += "F01" + chr$(1) + "F01FolderName" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1517     lsTmp += "F02" + chr$(1) + "F02LogLocation" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1518     lsTmp += "F03" + chr$(1) + "F03TimeStamp" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1519     lsTmp += "F04" + chr$(1) + "F04Thread" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1520     lsTmp += "F05" + chr$(1) + "F05Category" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1521     lsTmp += "F06" + chr$(1) + "F06Message" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1522     lsTmp += "F07" + chr$(1) + "F07Details" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1523     lsTmp += "F08" + chr$(1) + "F08Bytes" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1524     lsTmp += "F09" + chr$(1) + "F09IPNum" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1525     lsTmp += "F10" + chr$(1) + "F10ThreadNum" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1526     lsTmp += "F11" + chr$(1) + "F11ThreadTime" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1527     lsTmp += "F12" + chr$(1) + "F12PersonUUID" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1528     lsTmp += "F13" + chr$(1) + "F13SessionUUID" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1529     lsTmp += "F14" + chr$(1) + "F14Datum1" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1530     lsTmp += "F15" + chr$(1) + "F15Datum2" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1531     lsTmp += "F16" + chr$(1) + "F16Datum3" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1532     lsTmp += "F17" + chr$(1) + "F17Datum4" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1533     lsTmp += "F18" + chr$(1) + "F18MessageCode" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1534     lsTmp += "F19" + chr$(1) + "F19MoxVerMajor" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1535     lsTmp += "F20" + chr$(1) + "F20MoxVerMinor" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1) + chr$(0)
1536     lsTmp += "F21" + chr$(1) + "F21Country" + chr$(1) + "" + chr$(1) + "[R]" + chr$(1)
1537
1538     sFilePut ".\Moxie\Recv\log.cnt", TRIM$( lsTmp, chr$(0))

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1539     Reset                                l$Tmp
1540 END SUB
1541
1542 SUB sGetFileNamesOnly( psaFiles() AS STRING, psFolder AS STRING, plSubFolders as long)
1543     LOCAL llCl AS LONG
1544     Local lsFolder, lsThisFile as string
1545     REDIM                                psaFiles(1 TO 10) : llCl = 1
1546     'Start with the current (default) directory
1547     lsFolder = ""                        : Gosub FillAndLoop
1548
1549     'Check each possible directory using bitwise AND
1550     If ( plSubFolders AND $dir_DBStore ) Then lsFolder = "DBStore"      : Gosub FillAndLoop
1551     If ( plSubFolders AND $dir_History ) Then lsFolder = "History"      : Gosub FillAndLoop
1552     If ( plSubFolders AND $dir_Lib ) Then lsFolder = "Lib"              : Gosub FillAndLoop
1553     If ( plSubFolders AND $dir_Private ) Then lsFolder = "Private"      : Gosub FillAndLoop
1554     If ( plSubFolders AND $dir_Public ) Then lsFolder = "Public"        : Gosub FillAndLoop
1555     If ( plSubFolders AND $dir_Recv ) Then lsFolder = "Recv"            : Gosub FillAndLoop
1556     If ( plSubFolders AND $dir_Templates ) Then lsFolder = "Templates"  : Gosub FillAndLoop
1557     If ( plSubFolders AND $dir_Work ) Then lsFolder = "Work"            : Gosub FillAndLoop
1558
1559     REDIM                                PRESERVE psaFiles(1 TO llCl - 1)
1560     Exit Sub
1561
1562 FillAndLoop:
1563     If Len(lsFolder) Then
1564         psaFiles(llCl) = lsFolder + "\" + DIR$(TRIM$(psFolder, "\")) + "\" + lsFolder + \"*.**)
1565     Else
1566         psaFiles(llCl) = DIR$(TRIM$(psFolder, "\")) + \"*.**)
1567     End If
1568     DO
1569         INCR llCl
1570         IF llCl > UBOUND(psaFiles) THEN
1571             REDIM PRESERVE psaFiles(1 TO llCl * 1.5)
1572             lsThisFile = DIR$
1573             If Len(lsFolder) Then
1574                 psaFiles(llCl) = lsFolder + "\" + lsThisFile
1575             Else
1576                 psaFiles(llCl) = lsThisFile
1577             End If
1578             LOOP WHILE LEN(lsThisFile)
1579         Return
1580     END SUB
1581
1582 Function ShellExec( psWorkFldr AS STRING, psHomeFldr as string, psShellCommand AS STRING, psShellCommandResult AS STRING) as long
1583     LOCAL llLen AS LONG
1584     LOCAL lsPreProcFilePath AS STRING
1585
1586     IF psWorkFldr = "" THEN
1587         lsPreProcFilePath = ".\" + $PreProcTempFile
1588     ELSE
1589         lsPreProcFilePath = RTRIM$( TRIM$(psWorkFldr), ANY " \") + "\" + $PreProcTempFile
1590     END IF
1591
1592     IF INSTR(lsPreProcFilePath, $SPC) THEN
1593         lsPreProcFilePath = $DQ + lsPreProcFilePath + $DQ
1594     END IF
1595
1596     KILL lsPreProcFilePath : 'Remove any previously failed temp file
1597     SHELL ENVIRON$("COMSPEC") + " /C " + psShellCommand + " > " & lsPreProcFilePath & " 2>&1", 0
1598
1599     sFileGet lsPreProcFilePath, psShellCommandResult, llLen
1600     sFilePut lsPreProcFilePath, ""
1601     KILL lsPreProcFilePath
1602
1603     REM ' Some programs do not play nice with DOS Error messages
1604     REPLACE $CR + $CR WITH $CR IN psShellCommandResult
1605     psShellCommandResult = RTRIM$( psShellCommandResult, $CRLF)
1606 END FUNCTION
1607
1608 FUNCTION ShellExec7za( _
1609     psWorkFldr AS STRING, _
1610     _
1611     psHomeFldr as string, _
1612     psShellCommand AS STRING, _
1613     psShellCommandResult AS STRING _
1614     ) as long
1615     LOCAL llLen, llRet, llErr AS LONG

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1616     local lsWorkFldr, lsHomeFldr, lsOrigFldr, lsData as string
1617
1618     llErr = %False
1619
1620     lsWorkFldr = RTRIM$( psWorkFldr, ANY " \") + "\"
1621     lsHomeFldr = RTRIM$( psHomeFldr, ANY " \") + "\"
1622     lsOrigFldr = RTRIM$( CURDIR$, ANY " \") + "\"
1623
1624     REM ' Basic error checking and init
1625     If psWorkFldr = "\" _
1626     OR psHomeFldr = "\" _
1627     OR LEN( DIR$(psHomeFldr + "7za.exe")) = 0 THEN
1628         llErr = %True
1629         GOTO ShellExec7zaDone
1630     END IF
1631
1632     If lsHomeFldr = lsWorkFldr THEN
1633         llErr = %True
1634         GOTO ShellExec7zaDone
1635     END IF
1636
1637     REM 'Prep the 'local' folder
1638     If lsOrigFldr <> lsWorkFldr THEN
1639         CHDRIVE Extract$(psWorkFldr, ":")
1640         chdir REMAIN$(psWorkFldr, ":")
1641     End If
1642
1643     REM 'Prep the 7za command to execute as a 'local' command with our current privelege level
1644     sFileGet lsHomeFldr + "7za.exe", lsData, llLen
1645     If llLen < 2 THEN
1646         llErr = %True
1647         GOTO ShellExec7zaDone
1648     End If
1649     sFilePut lsWorkFldr + "7za.exe", lsData
1650     KILL "7za.tmp" : 'Remove any previously failed zip tmp file
1651
1652     SHELL ENVIRON$("COMSPEC") + " /C " + psShellCommand + " > 7za.tmp 2>&1" , 0
1653     sFileGet "7za.tmp", psShellCommandResult, llLen
1654     sFilePut "7za.tmp", ""
1655     KILL "7za.tmp"
1656     KILL lsWorkFldr + "7za.exe"
1657
1658     REM ' Restore
1659     If lsOrigFldr <> lsWorkFldr THEN
1660         CHDRIVE Extract$(lsOrigFldr, ":")
1661         chdir REMAIN$(lsOrigFldr, ":")
1662     End If
1663
1664     REM ' Some programs do not play nice with DOS Error messages
1665     REPLACE $CR + $CR WITH $CR IN psShellCommandResult
1666     psShellCommandResult = RTRIM$( psShellCommandResult, $CRLF)
1667
1668     REM ' Done
1669     ShellExec7zaDone:
1670     FUNCTION = llErr
1671 END FUNCTION
1672
1673 FUNCTION ResultFlagOnShellExec( _
1674     psCommand as string, _ : '
1675     psWorkFldr AS STRING, _ : '
1676     psHomeFldr as string, _ : '
1677     psShellCommand AS STRING, _ : '
1678     psResultLog AS STRING, _ : '
1679     psFailFlagCriteria AS STRING, _ : '
1680     psFailFlagTestString AS STRING _ : '
1681 ) AS LONG
1682 GLOBAL glFinalResult AS LONG
1683 global gsFinalMessage as string
1684 LOCAL llFailFlag, llErrorFlag AS LONG
1685 LOCAL lsTmpLog, lsResult, lsResultMessage, lsFailFlagTestString AS STRING
1686
1687 llErrorFlag = %False
1688
1689 If LCASE$( psCommand) = LCASE$( "ShellExec") Then
1690     psResultLog += $CRLF + "ShellExec: " + psShellCommand
1691     llErrorFlag = ShellExec( psWorkFldr, psHomeFldr, psShellCommand, lsTmpLog)
1692

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1693 Elseif LCASE$( psCommand) = LCASE$( "ShellExec7za") Then
1694     psResultLog      += $CRLF + "ShellExec7za: " + psShellCommand
1695     llErrorFlag      = ShellExec7za( psWorkFldr, psHomeFldr, psShellCommand, lsTmpLog)
1696
1697 ELSE
1698     psResultLog      += $CRLF + "ResultFlagOnShellExec: Error: invalid command " + psShellCommand
1699     llErrorFlag      = %True
1700     goto             ResultFlagOnShellExecDone
1701 End If
1702
1703 lsResult            = LCASE$(lsTmpLog)
1704 lsResult            = TRIM$( lsResult)
1705 lsResult            = TRIM$( lsResult, $TAB)
1706 lsResult            = TRIM$( lsResult, $CRLF)
1707 lsResult            = TRIM$( lsResult, $CR)
1708 lsResult            = TRIM$( lsResult, $LF)
1709
1710 lsFailFlagTestString = LCASE$( psFailFlagTestString)
1711 llFailFlag          = INSTR( lsResult, lsFailFlagTestString)
1712
1713 SELECT CASE psFailFlagCriteria
1714     CASE $Ignore
1715         ' Fall Through
1716
1717     CASE $FlagIfEmpty
1718         IF LEN( lsResult) = 0 THEN
1719             llErrorFlag = %True
1720             : lsResultMessage = "Error: " + psCommand + " Command " & psFailFlagCriteria
1721         END IF
1722
1723     CASE $FlagIfNotEmpty
1724         IF LEN( lsResult) <> 0 THEN
1725             llErrorFlag = %True
1726             : lsResultMessage = "Error: " + psCommand + " Command " & psFailFlagCriteria
1727         END IF
1728
1729     CASE $FlagIfIncludes
1730         IF LEN(lsFailFlagTestString) = 0 THEN
1731             llErrorFlag = %True
1732             : lsResultMessage = "Error: " + psCommand + " Command " & psFailFlagCriteria & " Invalid Test"
1733         END IF
1734         IF llFailFlag <> 0 THEN
1735             llErrorFlag = %True
1736             : lsResultMessage = "Error: " + psCommand + " Command " & psFailFlagCriteria
1737         ELSE
1738             ' Fall Through
1739         END IF
1740
1741     CASE $FlagIfNotIncludes
1742         IF LEN(lsFailFlagTestString) = 0 THEN
1743             llErrorFlag = %True
1744             : lsResultMessage = "Error: " + psCommand + " Command " & psFailFlagCriteria & " Invalid Test"
1745         END IF
1746         IF llFailFlag = 0 THEN
1747             llErrorFlag = %True
1748             : lsResultMessage = "Error: " + psCommand + " Command " & psFailFlagCriteria
1749         ELSE
1750             ' Fall Through
1751         END IF
1752
1753     CASE ELSE
1754         llErrorFlag = %True
1755         : lsResultMessage = "Error: " + psCommand + " Command $Unhandled"
1756 END SELECT
1757
1758 REPLACE $CRLF WITH $SEP_CRLF IN lsTmpLog
1759 REPLACE $CR WITH $SEP_CR IN lsTmpLog
1760 REPLACE $LF WITH $SEP_LF IN lsTmpLog
1761
1762 IF psFailFlagCriteria = $Ignore THEN
1763     psResultLog      += $CRLF + "ResultFlagOnShellExec: " + "$Ignore" + "<ResultFlagOnShellExec>" + lsTmpLog + "</ResultFlagOnShellExec>"
1764 ELSE
1765     psResultLog      += $CRLF + "ResultFlagOnShellExec: " + lsResultMessage + "<ResultFlagOnShellExec>" + lsTmpLog + "</ResultFlagOnShellExec>"
1766 END IF
1767
1768 ResultFlagOnShellExecDone:
1769 IF llErrorFlag THEN
1770     glFinalResult = 5
1771     glFinalMessage += $CRLF + "Non fatal command failure: " + lsResultMessage + ". See logs; proceeding..."
1772 End If
1773 FUNCTION = llErrorFlag
1774 END FUNCTION
1775
1776 SUB sCaptureConfiguration( psWorkFldr AS STRING, _ : '

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1770     psaFolderPath() AS STRING, _      : '
1771     psBackupRootFolder as string, _   : '
1772     psStatsRecvFolder as string, _    : '
1773     psMoxViewFolder as string, _      : '
1774     psMailServer as string, _         : '
1775     psMailServerPort as string, _     : '
1776     psMailFrom as string, _          : '
1777     psForceCnwEmailErr as string, _   : '
1778     psEmailOnError as string, _       : '
1779     psEmailNoError as string, _      : '
1780     psMoxieOnError as string)         : '
1781 GLOBAL glFinalResult AS LONG
1782 LOCAL l1Len, l1Flag, l1C1, l1C2, l1C3, l1C4, l1C5, l1C6 AS LONG
1783 LOCAL lsPreProcCfgPath, lsPreProcData, lsPreProcCfgData, lsData, lsaData(), lstmpl1, lstmp2 AS STRING
1784 LOCAL lsFolderPath, lsaFolderPath(), lsLookFor, lsLookForResult, lsObjectRootFolder, lsBackupRootFolder AS STRING
1785
1786 REDIM                                     lsaFolderPath(0), lsaData(0)
1787
1788 REM 'parse config file for object directories
1789 sFileGet                                psWorkFldr + $PreProcCfgName, lsPreProcCfgData, l1Len
1790 IF l1Len < 2 THEN
1791     lsPreProcCfgData                    = ""
1792     lsPreProcCfgData                    += $CRLF + "# ----- PreProc.conf -----"
1793     lsPreProcCfgData                    += $CRLF + "# Emails below are one email per line; as many lines as required"
1794     lsPreProcCfgData                    += $CRLF + "# no more comments below this line"
1795     lsPreProcCfgData                    += $CRLF + "# -----"
1796     lsPreProcCfgData                    += $CRLF + ""
1797     lsPreProcCfgData                    += $CRLF + "[ObjectRootFolder]"
1798     lsPreProcCfgData                    += $CRLF + "U:\Work"
1799     lsPreProcCfgData                    += $CRLF + ""
1800     lsPreProcCfgData                    += $CRLF + "[BackupRootFolder]"
1801     lsPreProcCfgData                    += $CRLF + "C:\Backup3"
1802     lsPreProcCfgData                    += $CRLF + ""
1803     lsPreProcCfgData                    += $CRLF + "[StatsRecvFolder]"
1804     lsPreProcCfgData                    += $CRLF + "C:\Work\Logs.WebNnow.cc\Recv"
1805     lsPreProcCfgData                    += $CRLF + ""
1806     lsPreProcCfgData                    += $CRLF + "[MoxViewFolder]"
1807     lsPreProcCfgData                    += $CRLF + "D:\Util\MoxView"
1808     lsPreProcCfgData                    += $CRLF + ""
1809     lsPreProcCfgData                    += $CRLF + "[MailServer]"
1810     lsPreProcCfgData                    += $CRLF + "mail.topdomain.top"
1811     lsPreProcCfgData                    += $CRLF + ""
1812     lsPreProcCfgData                    += $CRLF + "[MailServerPort]"
1813     lsPreProcCfgData                    += $CRLF + "65536"
1814     lsPreProcCfgData                    += $CRLF + ""
1815     lsPreProcCfgData                    += $CRLF + "[MailFrom]"
1816     lsPreProcCfgData                    += $CRLF + "server@topdomain.top"
1817     lsPreProcCfgData                    += $CRLF + ""
1818     lsPreProcCfgData                    += $CRLF + "[Force.Cnw.EmailErr]"
1819     lsPreProcCfgData                    += $CRLF + "Server.Admin@topdomain.top"
1820     lsPreProcCfgData                    += $CRLF + ""
1821     lsPreProcCfgData                    += $CRLF + "[EmailOnError]"
1822     lsPreProcCfgData                    += $CRLF + "Server.Admin@topdomain.top"
1823     lsPreProcCfgData                    += $CRLF + "The.Boss@topdomain.top"
1824     lsPreProcCfgData                    += $CRLF + ""
1825     lsPreProcCfgData                    += $CRLF + "[EmailNoError]"
1826     lsPreProcCfgData                    += $CRLF + "Server.Admin@topdomain.top"
1827     lsPreProcCfgData                    += $CRLF + ""
1828     lsPreProcCfgData                    += $CRLF + "[MoxieOnError]"
1829     lsPreProcCfgData                    += $CRLF + "Server.Admin@topdomain.top"
1830     lsPreProcCfgData                    += $CRLF + ""
1831     sFilePut                             psWorkFldr + $PreProcCfgName, Trim$( lsPreProcCfgData, $CRLF)
1832     lsObjectRootFolder                    = ""
1833     glFinalResult                        = 2
1834     gsFinalMessage                       += $CRLF + "A config file was not found; the following suggested configuration file was created. Please edit it before running again."
1835     gsFinalMessage                       += $CRLF + lsPreProcCfgData
1836 ELSE
1837     lsLookForResult                      = lsPreProcCfgData : lsLookFor = "[ObjectRootFolder]" : GOSUB ParseConfigParam : lsObjectRootFolder = lsLookForResult
1838     lsLookForResult                      = lsPreProcCfgData : lsLookFor = "[BackupRootFolder]" : GOSUB ParseConfigParam : lsBackupRootFolder = lsLookForResult
1839     lsLookForResult                      = lsPreProcCfgData : lsLookFor = "[StatsRecvFolder]" : GOSUB ParseConfigParam : psStatsRecvFolder = lsLookForResult
1840     lsLookForResult                      = lsPreProcCfgData : lsLookFor = "[MoxViewFolder]" : GOSUB ParseConfigParam : psMoxViewFolder = lsLookForResult
1841     lsLookForResult                      = lsPreProcCfgData : lsLookFor = "[MailServer]" : GOSUB ParseConfigParam : psMailServer = lsLookForResult
1842     lsLookForResult                      = lsPreProcCfgData : lsLookFor = "[MailServerPort]" : GOSUB ParseConfigParam : psMailServerPort = lsLookForResult
1843     lsLookForResult                      = lsPreProcCfgData : lsLookFor = "[MailFrom]" : GOSUB ParseConfigParam : psMailFrom = lsLookForResult
1844     lsLookForResult                      = lsPreProcCfgData : lsLookFor = "[Force.Cnw.EmailErr]" : GOSUB ParseConfigParam : psForceCnwEmailErr = lsLookForResult
1845     lsLookForResult                      = lsPreProcCfgData : lsLookFor = "[EmailOnError]" : GOSUB ParseConfigParam : psEmailOnError = lsLookForResult
1846     lsLookForResult                      = lsPreProcCfgData : lsLookFor = "[EmailNoError]" : GOSUB ParseConfigParam : psEmailNoError = lsLookForResult

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1547      lsLookForResult      = lsPreProcCfgData : lsLookFor = "[MoxieOnError]"      : GOSUB ParseConfigParam      : psMoxieOnError      = lsLookForResult
1548
1549      psBackupRootFolder    = lsBackupRootFolder
1550  END IF
1551
1552  REM 'Capture Configuration Info
1553  IF lsObjectRootFolder = "" THEN
1554      REDIM
1555      EXIT
1556  ELSE
1557      ShellExec
1558      llC1 = PARSECOUNT(lsPreProcData, $CRLF)
1559      REDIM psFolderPath(1 TO %MAXcfgFIELDS, 1 TO llC1)
1560      REDIM lsaFolderPath(1 TO llC1)
1561      PARSE lsPreProcData, lsaFolderPath(), $CRLF
1562      llC3 = 0
1563      FOR llC2 = 1 TO llC1
1564          IF DIR$(lsObjectRootFolder + "\" + lsaFolderPath(llC2) + "\Moxie.exe") = "Moxie.exe" THEN
1565              INCR llC3
1566              psFolderPath(%BackupRoot, llC3) = lsBackupRootFolder
1567              psFolderPath(%FolderRoot, llC3) = lsObjectRootFolder
1568              psFolderPath(%StatsRecv, llC3) = psStatsRecvFolder
1569              psFolderPath(%FolderObject, llC3) = lsaFolderPath(llC2)
1570              lsFolderPath = psFolderPath(%FolderRoot, llC3) + "\" + psFolderPath(%FolderObject, llC3)
1571              IF LEN( DIR$(lsFolderPath + "\Moxie.cfg") ) THEN
1572                  sFileGet lsFolderPath + "\Moxie.cfg", psFolderPath(%ConfigData, llC3), llLen
1573              END IF
1574              IF LEN( psFolderPath(%ConfigData, llC3)) THEN
1575                  psFolderPath(%IP, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgIP ), $CRLF))
1576                  psFolderPath(%MaxConnections, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgMaxConnections ), $CRLF))
1577                  psFolderPath(%HttpPort, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgHttpPort ), $CRLF))
1578                  psFolderPath(%HttpsPort, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgHttpsPort ), $CRLF))
1579                  psFolderPath(%CertFile, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgCertFile ), $CRLF))
1580                  psFolderPath(%RelayHttpsHost, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgRelayHttpsHost ), $CRLF))
1581                  psFolderPath(%Encoding, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgEncoding ), $CRLF))
1582                  psFolderPath(%RAMRecvSize, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgRAMRecvSize ), $CRLF))
1583                  psFolderPath(%DLLs, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgDLLs ), $CRLF))
1584                  psFolderPath(%LocalBKPPath, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgLocalBKPPath ), $CRLF))
1585                  psFolderPath(%SendBKNName, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgSendBKNName ), $CRLF))
1586                  psFolderPath(%SendBKPort, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgSendBKPort ), $CRLF))
1587                  psFolderPath(%SendBKPPWHash, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgSendBKPPWHash ), $CRLF))
1588                  psFolderPath(%RecvBKPort, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgRecvBKPort ), $CRLF))
1589                  psFolderPath(%RecvBKPPWHash, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgRecvBKPPWHash ), $CRLF))
1590                  psFolderPath(%ServiceName, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgServiceName ), $CRLF))
1591                  psFolderPath(%ServiceUser, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgServiceUser ), $CRLF))
1592                  psFolderPath(%DiskFlushTimer, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgDiskFlushTimer ), $CRLF))
1593                  psFolderPath(%AltIPInfo, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgAltIPInfo ), $CRLF))
1594                  psFolderPath(%RelayNoAltIP, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgRelayNoAltIP ), $CRLF))
1595                  psFolderPath(%ForcedCookies, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgForcedCookies ), $CRLF))
1596                  psFolderPath(%Meta, llC3) = TRIM$( EXTRACT$( REMAINS$( psFolderPath(%ConfigData, llC3), $cfgMeta ), $CRLF))
1597
1598                  psFolderPath(%HttpPort, llC3) = IIF$( VAL(psFolderPath(%HttpPort, llC3)) = 0, "", FORMAT$(VAL(psFolderPath(%HttpPort, llC3))))
1599                  psFolderPath(%HttpsPort, llC3) = IIF$( VAL(psFolderPath(%HttpsPort, llC3)) = 0, "", FORMAT$(VAL(psFolderPath(%HttpsPort, llC3))))
1600
1601                  Replace $TAB with $SEP_TAB in psFolderPath(%ConfigData, llC3)
1602                  Replace $CRLF with $SEP_CRLF in psFolderPath(%ConfigData, llC3)
1603              END IF
1604          END IF
1605      NEXT
1606      REDIM PRESERVE psFolderPath(1 TO %MAXcfgFIELDS, 1 TO llC3)
1607  END IF
1608
1609  EXIT SUB
1610
1611  ParseConfigParam:
1612      lsData = REMAINS$( lsLookForResult, lsLookFor)
1613      lsData = EXTRACT$( lsData, "[" )
1614      llC4 = PARSECOUNT(lsData, $CRLF)
1615      REDIM lsaData(1 TO llC4)
1616      PARSE lsData, lsaData(), $CRLF
1617      llC6 = 0
1618      FOR llC5 = 1 TO llC4
1619          llFlag = %True
1620          If Len( Trim$(lsaData(llC5), ANY $WHITESPACE ) ) = 0 THEN llFlag = %False
1621          If left$( Trim$(lsaData(llC5), ANY $WHITESPACE ), 1) = "#" THEN llFlag = %False
1622          IF llFlag = %False THEN Iterate for
1623      
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1924         INCR                11C6
1925         lsaData(11C6)       = Trim$(lsaData(11C5), ANY $WHITESPACE )
1926     Next
1927     REDIM Preserve lsaData(1 to 11C6)
1928     If 11C6 then
1929         lsLookForResult     = join$( lsaData(), $CRLF)
1930     else
1931         lsLookForResult     = " "
1932     End If
1933     RETURN
1934 END SUB
1935
1936 sub MetaCapture( psaFolderPath() as string, psaMeta() as string)
1937     'make the Meta information more suitable for lookup
1938     LOCAL lsData, lsaData(), lsaTmp(), lsaTmp2() as string
1939     LOCAL 11C1, 11C2, 11C3, 11C4, 11C5 AS LONG
1940
1941     11C2 = UBOUND( psaFolderPath(2))
1942
1943     'redim psaMeta() to same size as psaFolderPath() and process
1944     REDIM psaMeta(1 to 11C2)
1945     REDIM lsaData (1 to 11C2)
1946     For 11C1 = 1 to 11C2
1947         lsaData(11C1)       = psaFolderPath(%Meta, 11C1)
1948     Next
1949     For 11C1 = 1 to 11C2
1950         lsData               = lsaData(11C1)
1951         11C3                 = parsecount( lsData, ";")
1952         Redim                lsaTmp( 1 to 11C3)
1953         Parse                lsData, lsaTmp(), ";"
1954         Reset                lsData
1955         If Len( lsaTmp(1)) THEN
1956             11C5              = 0
1957             FOR 11C4 = 1 to 11C3
1958                 If INSTR( LCASE$( lsaTmp(11C4)), "nightly-") = 0 THEN iterate for
1959                     INCR      11C5
1960                     lsaTmp(11C5) = lsaTmp(11C4)
1961             Next
1962             11C3              = 11C5
1963             REDIM Preserve lsaTmp(1 to 11C3)
1964             REDIM lsaTmp2(1 to 11C3, 2)
1965             FOR 11C4 = 1 to 11C3
1966                 'perform a single instance case-insensitive REPLACE "nightly-" WITH "" IN lsaTmp(11C4)
1967                 lsaTmp(11C4) = ReplaceOnce( lsaTmp(11C4), "nightly-", "")
1968                 'and trim
1969                 lsaTmp2( 11C4, 1) = Extract$( lsaTmp(11C4), ":")
1970                 lsaTmp2( 11C4, 2) = Remain$( lsaTmp(11C4), ":")
1971                 lsaTmp2( 11C4, 1) = trim$( lsaTmp2( 11C4, 1), ANY $WHITESPACE)
1972                 lsaTmp2( 11C4, 2) = trim$( lsaTmp2( 11C4, 2), ANY $WHITESPACE)
1973                 lsaTmp(11C4)      = lsaTmp2( 11C4, 1) & $SEP_SOH & lsaTmp2( 11C4, 2)
1974             Next
1975             psaMeta(11C1)        = Join$( lsaTmp(), $SEP_NUL)
1976         End If
1977     Next
1978 end sub
1979
1980
1981 FUNCTION ReplaceOnce( psString as string, psSearchFor as string, psReplaceWith as string) as string
1982     ' PB Thread https://forum.powerbasic.com/forum/user-to-user-discussions/
1983     ' ... source-code/60412-a-time-efficient-case-insensitive-replace-function
1984     local 11C1, 11C2 as long
1985     11C2 = LEN(psSearchFor)
1986     11C1 = INSTR(LCASE$(psString), LCASE$(psSearchFor))
1987     If 11C1 = 0 then
1988         FUNCTION = psString
1989     ELSE
1990         FUNCTION = LEFT$(psString, 11C1 - 1) + psReplaceWith + MID$(psString, 11C1 + 11C2)
1991     End If
1992 End Function
1993
1994 FUNCTION MetaSearch( psaMeta() AS STRING, plFolderPathNum AS LONG, psLookForThisMetaKey AS STRING) AS STRING
1995     LOCAL 11C1, 11C2 as long
1996     LOCAL lsResult, lsaTmp() as string
1997
1998     11C2 = parsecount( psaMeta( plFolderPathNum), CHR$(0))
1999     Redim lsaTmp( 1 to 11C2)
2000     Parse psaMeta( plFolderPathNum), lsaTmp(), CHR$(0)

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2001     For llC1 = 1 to llC2
2002         If LCASE$( Extract$( lsaTmp( llC1), CHR$(1))) = LCASE$(psLookForThisMetaKey) THEN
2003             lsResult = Remain$( lsaTmp( llC1), CHR$(1))
2004         End If
2005     Next
2006     FUNCTION = lsResult
2007 END FUNCTION
2008
2009 sub sCaptureConfigurationSave( psWorkFldr as string, psaFolderPath() as string, psResult as string)
2010     LOCAL lsData as string
2011     LOCAL llC1, llC2 AS LONG
2012
2013     lsData
2014         += "FolderRoot" + $TAB
2015     lsData
2016         += "BackupRoot" + $TAB
2017     lsData
2018         += "StatsRecv" + $TAB
2019     lsData
2020         += "FolderObject" + $TAB
2021     lsData
2022         += "ConfigData" + $TAB
2023     lsData
2024         += $cfgIP + $TAB
2025     lsData
2026         += $cfgMaxConnections + $TAB
2027     lsData
2028         += $cfgHttpPort + $TAB
2029     lsData
2030         += $cfgHttpsPort + $TAB
2031     lsData
2032         += $cfgCertFile + $TAB
2033     lsData
2034         += $cfgRelayHttpsHost + $TAB
2035     lsData
2036         += $cfgEncoding + $TAB
2037     lsData
2038         += $cfgRAMRecvSize + $TAB
2039     lsData
2040         += $cfgDLLs + $TAB
2041     lsData
2042         += $cfgLocalBKPath + $TAB
2043     lsData
2044         += $cfgSendBKName + $TAB
2045     lsData
2046         += $cfgSendBKPort + $TAB
2047     lsData
2048         += $cfgSendBKPWDHash + $TAB
2049     lsData
2050         += $cfgRecvBKPort + $TAB
2051     lsData
2052         += $cfgRecvBKPWDHash + $TAB
2053     lsData
2054         += $cfgServiceName + $TAB
2055     lsData
2056         += $cfgServiceUser + $TAB
2057     lsData
2058         += $cfgDiskFlushTimer + $TAB
2059     lsData
2060         += $cfgAltIPInfo + $TAB
2061     lsData
2062         += $cfgRelayNoAltIP + $TAB
2063     lsData
2064         += $cfgForcedCookies + $TAB
2065     lsData
2066         += $cfgMeta + $TAB
2067     lsData
2068         += $CRLF
2069
2070     replace
2071         " =" with "" in lsData
2072
2073     FOR llC2 = 1 TO UBOUND( psaFolderPath(2))
2074         For llC1 = 1 to UBOUND( psaFolderPath(1))
2075             lsData
2076                 += psaFolderPath(llC1, llC2) + $TAB
2077         Next
2078         lsData
2079             += $CRLF
2080     NEXT
2081     psResult
2082         += $CRLF + Trim$(lsData, $CRLF)
2083     sFilePut
2084         psWorkFldr + $ProgramName + ".conf.dump", Trim$(lsData, $CRLF)
2085     sFilePut
2086         psWorkFldr + "Moxie\Recv\conf.dump", Trim$(lsData, $CRLF)
2087 End Sub
2088
2089 SUB CommitLog( psWorkFldr AS STRING, psResultLog AS STRING)
2090     sFilePut
2091         psWorkFldr + $ProgramName + "\" + $ProgramName + "." + StampItDateHM + ".LogFile.log", TRIM$( psResultLog, $CRLF)
2092 END SUB
2093
2094 SUB sFileGet( psCompletePath AS STRING, psData AS STRING, plLOF AS LONG)
2095     LOCAL llFileNum AS LONG
2096     llFileNum
2097         = FREEFILE
2098     psData
2099         = ""
2100     OPEN
2101         psCompletePath FOR BINARY LOCK SHARED AS llFileNum
2102     plLOF
2103         = LOF(llFileNum)
2104     GET$
2105         llFileNum, LOF(llFileNum), psData
2106     CLOSE
2107         llFileNum
2108 END SUB
2109
2110 SUB sFilePut( psCompletePath AS STRING, psData AS STRING)
2111     LOCAL llFileNum AS LONG
2112     llFileNum
2113         = FREEFILE
2114     OPEN
2115         psCompletePath FOR BINARY LOCK SHARED AS llFileNum
2116     PUT$
2117         llFileNum, psData : SETEOF(llFileNum)
2118     CLOSE
2119         llFileNum
2120 END SUB
2121
2122

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2078 SUB sFilePutSeq( psCompletePath AS STRING, plMode as long, psData AS STRING)
2079     LOCAL llFileNum AS LONG
2080     llFileNum = FREEFILE
2081     OPEN
2082         If %file_Replace = plMode THEN
2083             If %file_Append = plMode THEN
2084                 PUT$
2085             CLOSE
2086     END SUB
2087
2088 SUB sEnsureFolder( psWorkFldr AS STRING, psCompletePath AS STRING, psShellCommandResult AS STRING)
2089     LOCAL lsCommand AS STRING
2090     lsCommand = "IF NOT EXIST " + $DQ + TRIM$(psCompletePath) + $DQ + " (MKDIR " + $DQ + TRIM$(psCompletePath) + $DQ + ")"
2091     ShellExec
2092     psWorkFldr, "", lsCommand, psShellCommandResult
2093 END SUB
2094
2095 SUB StampItInit
2096     GLOBAL gsDate, gsTime AS STRING
2097     gsDate = DATE$
2098     gsTime = TIME$
2099 END SUB
2100
2101 FUNCTION StampItDate AS STRING
2102     GLOBAL gsDate, gsTime AS STRING
2103     FUNCTION
2104         = RIGHT$(gsDate, 4) + "-" + LEFT$(gsDate, 5)
2105 END FUNCTION
2106
2107 FUNCTION StampItNowLogFmt AS STRING
2108     local lsDate, lsTime AS STRING
2109     lsDate = DATE$
2110     lsTime = TIME$
2111     FUNCTION
2112         = RIGHT$(lsDate, 4) + "-" + LEFT$(lsDate, 5) + " " + lsTime
2113 END FUNCTION
2114
2115 FUNCTION StampItDateHM AS STRING
2116     GLOBAL gsDate, gsTime AS STRING
2117     FUNCTION
2118         = RIGHT$(gsDate, 4) + "-" + LEFT$(gsDate, 5) + "-" + LEFT$(REMOVE$(gsTime, ":"),4)
2119 END FUNCTION
2120
2121 FUNCTION StampItCurrentSeconds AS STRING
2122     LOCAL lsDate, lsTime AS STRING
2123     lsDate = DATE$
2124     lsTime = TIME$
2125     FUNCTION
2126         = RIGHT$(lsDate, 4) + "-" + LEFT$(lsDate, 5) + "-" + REMOVE$(lsTime, ":")
2127 END FUNCTION
2128
2129 FUNCTION GetDow( psDate AS STRING) AS STRING
2130     'Clay Clear, Member PB Forums
2131     'posted September 29, 2005 03:49 AM
2132
2133     LOCAL x AS SYSTEMTIME, q AS QUAD
2134
2135     x.wyear = VAL(PARSE$(psDate, "-", 1))
2136     x.wmonth = VAL(PARSE$(psDate, "-", 2))
2137     x.wday = VAL(PARSE$(psDate, "-", 3))
2138
2139     systemtimetofiletime
2140     filetimetosystemtime
2141
2142     FUNCTION
2143         = READ$((x.wdayofweek)+1)
2144     DATA
2145         "Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat"
2146 END FUNCTION
2147
2148 Function QuadToStatTime (pgDateTime as quad) as string
2149     local lqTmp as quad
2150     local llDay, llH, llM, llS as long
2151
2152     lqTmp = pgDateTime
2153     llDay = lqTmp \ 86400 : lqTmp = lqTmp - (llDay * 86400)
2154     llH = lqTmp \ 3600 : lqTmp = lqTmp - (llH * 3600)
2155     llM = lqTmp \ 60 : lqTmp = lqTmp - (llM * 60)
2156     llS = lqTmp
2157
2158     function
2159         = format$( llDay) + " " + Format$( llH, "00") + ":" + Format$( llM, "00") + ":" + Format$( llS, "00")
2160 End Function

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2155
2156 Function DateTimeToQuad (psDateTime as string) as Quad
2157 'expected format
2158 ' 0 1 2
2159 ' 12345678901234567890
2160 ' 2014-02-29 15:34:25
2161 local llymd, llH, llM, llS as long
2162 local lsYmd, lsHms as string
2163
2164 lsYmd = Extract$( psDateTime, " " )
2165 lsHms = Remain$( psDateTime, " " )
2166
2167 llymd = String2Julian( lsYmd )
2168 llH = VAL(LEFT$( lsHms, 2))
2169 llM = VAL(MID$( lsHms, 4, 2))
2170 llS = VAL(RIGHT$( lsHms, 2))
2171
2172 function = llS + (llM * 60) + (llH * 3600) + (llymd * 86400)
2173 End Function
2174
2175 FUNCTION Julian2String( plJulianDate AS LONG) AS STRING
2176 'Ref: Fliegel and van Flandern (1968)
2177 'From http://www.hermetic.ch/cal_stud/jdn.htm#comp
2178 LOCAL D, I, J, L, M, N, Y AS LONG
2179
2180 l = plJulianDate + 68569
2181 n = ( 4 * l ) \ 146097
2182 l = l - ( 146097 * n + 3 ) \ 4
2183 i = ( 4000 * ( l + 1 ) ) \ 1461001
2184 l = l - ( 1461 * i ) \ 4 + 31
2185 j = ( 80 * l ) \ 2447
2186 d = l - ( 2447 * j ) \ 80
2187 l = j \ 11
2188 m = j + 2 - ( 12 * l )
2189 y = 100 * ( n - 49 ) + i + 1
2190
2191 FUNCTION = FORMAT$(Y, "0000") + "-" + FORMAT$(M, "00") + "-" + FORMAT$(D, "00")
2192 END FUNCTION
2193
2194 FUNCTION String2Julian( psDate AS STRING) AS LONG
2195 'Ref: Fliegel and van Flandern (1968)
2196 'From http://www.hermetic.ch/cal_stud/jdn.htm#comp
2197 LOCAL Y, M, D AS LONG
2198
2199 IF IsDateValid(psDate) = %False THEN
2200 FUNCTION = 0
2201 EXIT FUNCTION
2202 END IF
2203
2204 Y = VAL(LEFT$( psDate, 4))
2205 M = VAL(MID$( psDate, 6, 2))
2206 D = VAL(RIGHT$( psDate, 2))
2207 FUNCTION = ( 1461 * ( Y + 4800 + ( m - 14 ) \ 12 ) ) \ 4 + _
2208 ( 367 * ( m - 2 - 12 * ( ( m - 14 ) \ 12 ) ) ) \ 12 - _
2209 ( 3 * ( ( Y + 4900 + ( m - 14 ) \ 12 ) \ 100 ) ) \ 4 + _
2210 d - 32075
2211
2212 END FUNCTION
2213
2214 FUNCTION IsDateValid( psDate AS STRING) AS LONG
2215 'Adapted From http://www.hermetic.ch/cfunlib/dateval.htm
2216 LOCAL llyear, llMonth, llDay AS LONG
2217
2218 llyear = VAL(LEFT$( psDate, 4))
2219 llMonth = VAL(MID$( psDate, 6, 2))
2220 llDay = VAL(RIGHT$( psDate, 2))
2221
2222 FUNCTION = %True
2223 IF llDay < 1 OR llyear < 1800 OR llyear > 2199 THEN
2224 FUNCTION = %False
2225 ELSE
2226 SELECT CASE AS LONG llMonth
2227 CASE 1 : IF llDay > 31 THEN FUNCTION = %False
2228 CASE 2 : IF IsLeapYear( llyear ) THEN
2229 IF llDay > 29 THEN FUNCTION = %False
2230 ELSE
2231 IF llDay > 28 THEN FUNCTION = %False
2232 END IF
2233 END CASE
2234 END IF

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2232         CASE 3 :      IF llDay > 31 THEN FUNCTION = %False
2233         CASE 4 :      IF llDay > 30 THEN FUNCTION = %False
2234         CASE 5 :      IF llDay > 31 THEN FUNCTION = %False
2235         CASE 6 :      IF llDay > 30 THEN FUNCTION = %False
2236         CASE 7 :      IF llDay > 31 THEN FUNCTION = %False
2237         CASE 8 :      IF llDay > 31 THEN FUNCTION = %False
2238         CASE 9 :      IF llDay > 30 THEN FUNCTION = %False
2239         CASE 10 :     IF llDay > 31 THEN FUNCTION = %False
2240         CASE 11 :     IF llDay > 30 THEN FUNCTION = %False
2241         CASE 12 :     IF llDay > 31 THEN FUNCTION = %False
2242         CASE ELSE
2243             FUNCTION
2244             = %False
2245         END SELECT
2246     END IF
2247 END FUNCTION
2248
2249 FUNCTION IsLeapYear( plYear AS LONG) AS LONG
2250     'Adapted From http://www.hermetic.ch/cfunlib/dateval.htm
2251     IF ( (plYear MOD 4) <> 0 ) THEN
2252         FUNCTION = %False
2253     ELSEIF ( (plYear MOD 400) = 0 ) THEN
2254         FUNCTION = %True
2255     ELSEIF ( (plYear MOD 100) = 0 ) THEN
2256         FUNCTION = %False
2257     ELSE
2258         FUNCTION = %True
2259     END IF
2260 END FUNCTION

```