

```

1: {*****
2: *
3: * Project : SCAPIT - Secure Center API Tester
4: * Unit Name: 1314_sysinformation_shell, loc's = 131
5: * Purpose : Demonstrates SecureCenter imported functions from Windows API
6: * History : milo dll, teplas dll, v2.5
7: *****}
8:
9: program SecureCenterDLL_Tester;
10:
11: // Example Ressources from SC CD ..\SC_Official_Keylist.zip
12:
13: const PASSPHRASE = '99 Luftballone in Holland$';
14: KEYFILE = 'Alchenberger_Lorenz_2007.scsekey'; //9F08D2EC...hash
15: DOCFILE = 'maxbox_starter5.pdf';
16: CIPHERFILE = 'maxbox_starter5.pdf.scse';
17: SUBDIR = 'ciphertest\';
18:
19:
20: //DLL Test Generic -----
21: function MessageBeep(para: integer): byte;
22: external 'MessageBeep@user32.dll stdcall';
23:
24: function MyGetTickCount: Longint;
25: external 'GetTickCount@kernel32.dll stdcall';
26:
27: procedure MySleep(Milliseconds: Cardinal);
28: external 'Sleep@kernel32.dll stdcall';
29: //-----
30:
31: {function CreateKey(mtype: word; username, keyname, password, validfrom,
32: validuntil: PChar; var key: pointer; var keylength: word;
33: var keyhash: PChar): word;
34: external 'SCCreateNewKey@SecureCipherring.dll stdcall';}
35:
36: function SCCipherTheFile2(handle: word; keyname, password: PChar; actionattrib: word;
37: workfilename: pChar; var postfilename: string; MB: boolean): word;
38: external 'SCCipherTheFile@SecureCipherring.dll stdcall';
39:
40: procedure SCCipherProgress(var PercentsDone: WORD; cancel: boolean);
41: external 'SCCipherProgress@SecureCipherring.dll stdcall';
42:
43: function SCLoadAndSetKeyStateWithFileName2(Handle: word; SCKeyName, Password: PChar;
44: ActId: WORD; KeyHash: pchar): WORD;
45: external 'SCLoadAndSetKeyStateWithFileName@SecureCipherring.dll stdcall';
46:
47: var
48: mytimestamp: TDateTime;
49: E: Extended;
50: cfile, keyhash: string;
51: errorCode, progress: word;
52:
53:
54: Procedure DateTimeExample;
55: Var S, S1 : String;
56: begin
57: {Time, Date, and Now are all basically interchangeable.}
58: {They all return a DateTime value.}
59: S1:=DateToStr(Now2);
60: Case DayOfWeek(Date) of
61: 1: S:='Sunday';
62: 2: S:='Monday';
63: 3: S:='Tuesday';
64: 4: S:='Wednesday';
65: 5: S:='Thursday';
66: 6: S:='Friday';
67: 7: S:='Saturday';
68: Else S:='Noneday';
69: End; {Case}
70: writeln(S+' '+S1+' '+TimeToStr(Time));
71: end;
72:
73:
74: procedure SC_Cipher;

```

```

75: //example with key and passphrase in parameter, para 1 is cipher
76: begin
77:   errorCode:= SCCipherTheFile2(0, ExePath+SUBDIR+KEYFILE, Passphrase,
78:     1, ExePath+ SUBDIR+DOCFIELD, cfile, false)
79:   if errorCode = 0 then
80:     SearchAndOpenDoc(ExePath+SUBDIR+CIPHERFILE)
81:     Writeln(intToStr(errorCode))
82:   end;
83:
84:
85: procedure SC_Decipher;
86:   //example with key and passphrase in parameter, para 2 is decipher
87: begin
88:   errorCode:= SCCipherTheFile2(0, ExePath+SUBDIR+KEYFILE, Passphrase,
89:     2, ExePath+ SUBDIR+CIPHERFILE, cfile, false)
90:   if errorcode = 0 then
91:     SearchAndOpenDoc(ExePath+SUBDIR+DOCFIELD)
92:     Writeln(intToStr(errorCode))
93:   end;
94:
95: procedure SC_LoadandSetKeyState;
96: begin
97:   errorCode:= SCLoadAndSetKeyStateWithFileName2(0, ExePath+SUBDIR+KEYFILE,
98:     PASSPHRASE, 2, keyhash)
99:   if errorCode = 0 then
100:     Writeln(' this is hash of ' +keyhash)
101:     Writeln(inttostr(errorCode))
102:   end;
103:
104:
105: begin
106:   writeln(Format('Pi starts off as %.15f', [PI]));
107:   dateTimeExample;
108:   writeln('machine name is: '+getHostName)
109:   writeln('user name is: '+getUserName)
110:   mytimestamp:= GetFileCreationTime(exepath+'maxbox3.exe')
111:   writeln(datetimetostr(mytimestamp)+' Creation Date of maXbox3')
112:   writeln('tick count from func ' +IntToStr(GetTickCount));
113:   writeln('tick count from api ' +IntToStr(MyGetTickCount));
114:   MySleep(10);
115:   //maxburaut TEST ("CE7899D61F05331B20E321814D1CF0726268)
116:
117:   errorCode:= 0;
118:   cfile:= ''; //just to init the pChar no return available
119:   keyhash:= '';
120:   progress:= 0;
121:
122:   SC_Cipher;
123:   //SCCipherProgress(progress, true)
124:
125:   SC_Decipher;
126:   //SC_LoadAndSetKeyState;
127:
128:   {if errorCode = 0 then
129:     writeln('well done cipher: '+inttostr(errorcode)) else
130:     writeln('error from sc api: '+inttostr(errorcode))}
131: End.
132:
133: *****
134: There is no place like 127.0.0.1
135:
136: function SCCipherTheFile(Handle: HWND; SCKeyName: PChar;
137:   Password: PChar;
138:   ActionAttrib: WORD;
139:   WorkFileName: PChar;
140:   var PostFileName: PChar
141: ): WORD; export; stdcall;
142:
143: function SCLoadAndSetKeyStateWithFileName(Handle: HWND; SCKeyName: PChar;
144:   Password: PChar;
145:   ActId: WORD;
146:   var KeyHash: PChar
147: ): WORD; stdcall;
148:
149: The structure of a script is as follows (keywords are shown in ALLCAPS bold):

```

```
150:
151: PROGRAM
152:
153: CONST
154:
155: <Constant declarations>
156: TYPE
157:
158: <Type declarations>
159: VAR
160:
161: <Variable declarations>
162: BEGIN
163:
164: <Executable statements>
165: END.
166:
167: Note that:
168:
169: The main code must be within the begin and end. keywords.
170: All statements in the script use the semicolon ";" as terminator. Only the last statement
    (END.) uses a dot as terminator.
171:
172: function BinToOct(BinStr: string): string;
173: var
174:   i: Integer;
175:   OctPart: single;
176:   LastPart, OctStr: string;
177:   Error: Boolean;
178: begin
179:   Error:=False;
180:   OctStr:='';
181:   case Length(BinStr) mod 3 of
182:     1: BinStr:='00'+BinStr;
183:     2: BinStr:='0'+BinStr;
184:   end;
185:
186:   while Length(BinStr)>0 do begin
187:     LastPart:=Copy(BinStr, Length(BinStr)-2, 3);
188:     Delete(BinStr, Length(BinStr)-2, 3);
189:     OctPart:=0;
190:     for i:=1 to 3 do
191:       if not ((LastPart[i]='1') or (LastPart[i]='0')) then begin
192:         ShowMessage('This is not binary number');
193:         Error:=True;
194:         Break;
195:       end
196:       else
197:         OctPart:=OctPart+StrToInt(LastPart[i])*Power(2, 3-i);
198:     OctStr:=OctStr+FloatToStr(OctPart);
199:   end;
200:   Result:='';
201:   if Error<>True then begin
202:     for i:=1 to Length(OctStr) do
203:       Result:=Result+OctStr[Length(OctStr)-i+1];
204:       while (Result[1]='0') and (Length(Result)>1) do
205:         Delete(Result, 1, 1);
206:     end;
207:   end;
```