```
1: unit AppSettings;
 2:
3: {$mode objfpc}{$H+}
 6: //
7: // Unit : AppSettings.pas
8: //
9: // Description :
10: //
11: // Called By : AppInit : Initialize
12: //
                 Main : TfrmMain.mnuSettingsDIrectoriesClick
13: //
                        TfrmMain.mnuSettingsDatabasesClick
14: //
15: // Calls :
16: //
17: // Ver. : 1.0.0
18: //
19: // Date : 19 Apr 2019
20: //
22:
23: interface
24:
25: uses
26:
   Buttons, Classes, ComCtrls, Controls, Dialogs, FileUtil, Forms, Graphics, INIFiles,
27: StdCtrls, SysUtils,
28: //App Units
29:
   // HULib units
30: HUMessageBoxes;
31:
32: type
33:
34:
    { TfrmSettings }
35:
36:
    TfrmSettings = class(TForm)
37:
     bbtCancel: TBitBtn;
38:
      bbtOk: TBitBtn;
     edtBackupsDirectory: TEdit;
39:
40:
     edtLogbooksDirectory: TEdit;
41:
     edtSettingsDirectory: TEdit;
42:
     edtApplicationDirectory: TEdit;
43:
      Label1: TLabel;
      Label2: TLabel;
44:
      Label3: TLabel;
45:
      Label4: TLabel;
46:
47:
      Label5: TLabel;
48:
      pcSettings: TPageControl;
49:
      pgDirectories: TTabSheet;
50:
      procedure bbtCancelClick(Sender: TObject);
      procedure bbtOkClick(Sender: TObject);
51:
      procedure edtSettingsDirectoryMouseUp(Sender: TObject;
52:
53:
                             Button: TMouseButton; Shift: TShiftState; X, Y: Integer);
54:
       procedure FormClose(Sender: TObject; var CloseAction: TCloseAction);
55:
       procedure FormCreate(Sender: TObject);
56:
       procedure FormShow(Sender: TObject);
57:
58:
    private
59:
       fApplicationDirectory : string;
60:
       fAppName : string;
```

```
61:
         fSystemUserDirectory : string;
 62:
         fUserDataDirectory : string;
 63:
         fSettingsDirectory : string;
         fLoqbooksDirectory : string;
 64:
 65:
         fBackupsDirectory : string;
         fOwnerFirstName : string;
 66:
 67:
         fOwnerLastName : string;
 68:
         fOwnerCallsign : string;
 69:
         fOwnerEmailAddress : string;
 70:
        fOwnerID : string;
 71:
         function GetApplicationDirectory : string;
 72:
         procedure SetApplicationDirectory(Dir : string);
 73:
         function GetAppName : string;
 74:
         procedure SetAppName (AppName : string);
 75:
         function GetSystemUserDirectory : string;
 76:
         procedure SetSystemUserDirectory(Dir : string);
         function GetUserDataDirectory : string;
 77:
 78:
         procedure SetUserDataDirectory(Dir : string);
 79:
         function GetSettingsDirectory : string;
 80:
         procedure SetSettingsDirectory(Dir : string);
 81:
         function GetLogbooksDirectory : string;
 82:
         procedure SetLogbooksDirectory(Dir : string);
 83:
         function GetBackupsDirectory : string;
 84:
         procedure SetBackupsDirectory(Dir : string);
 85:
         function GetOwnerFirstName : string;
 86:
         procedure SetOwnerFirstName (FirstName : string);
 87:
         function GetOwnerLastName : string;
 88:
         procedure SetOwnerLastName (LastName : string);
 89:
         function GetOwnerCallsign : string;
 90:
         procedure SetOwnerCallsign (Callsign : string);
 91:
         function GetOwnerEmailAddress : string;
 92:
         procedure SetOwnerEmailAddress (EmailAddress: string);
 93:
         function GetOwnerID : string;
         procedure SetOwnerID (OwnerID : string);
 94:
 95:
 96:
       public
 97:
 98:
         property pApplicationDirectory : string read GetApplicationDirectory write
     SetApplicationDirectory;
 99:
         property pAppName : string read GetAppName write SetAppName;
100:
         property pSystemUserDirectory: string read GetSystemUserDirectory write
     SetSystemUserDirectory;
         property pUserDataDirectory: string read GetUserDataDirectory write SetUserDataDirectory;
101:
         property pSettingsDirectory: string read GetSettingsDirectory write SetSettingsDirectory;
102:
103:
         property pLogbooksDirectory: string read GetLogbooksDirectory write SetLogbooksDirectory;
         property pBackupsDirectory: string read GetBackupsDirectory write SetBackupsDirectory;
104:
105:
         property pOwnerFirstName : string read GetOwnerFirstName write SetOwnerFirstName;
         property pOwnerLastName : string read GetOwnerLastName write SetOwnerLastName;
106:
107:
         property pOwnerCallsign : string read GetOwnerCallsign write SetOwnerCallsign;
108:
         property pOwnerEmailAddress: string read GetOwnerEmailAddress write SetOwnerEmailAddress;
         property pOwnerID : string read GetOwnerID write SetOwnerID;
109:
110:
111:
        function UserDataDirectoriesExist : Boolean;
112:
         procedure ReadSettingsINIFile;
113:
         procedure WriteSettingsINIFile;
         function CreateUserDataDirectories : Boolean;
114:
115:
116:
       end; // TfrmSettings
117:
118: var
```

```
119:
    frmSettings: TfrmSettings;
120:
121: implementation
122:
123: {$R *.lfm}
124:
125: uses
126: Main;
127:
129: //
          PRIVATE CONSTANTS
131: const
132:
133: cstrAppName = 'RVMasterLog';
134: cstrSettingsDirectoryName = 'Settings';
135: cstrLogbooksDirectoryName = 'Logbooks';
136: cstrBackupsDirectoryName = 'Backups';
137: cstrUserDataDirectoryPath = 'AppData\Roaming\RVMasterLog';
138:
140: //
           PRIVATE VARIABLES
142:
PRIVATE ROUTINES
144: //
146: function TfrmSettings.UserDataDirectoriesExist : Boolean;
147: begin
148:
149:
    if not DirectoryExists(pUserDataDirectory) then
150: begin
151:
152:
     if HUErrorMsgYN('No User Data Directory', 'Initial Installation?') = mrYes then
153:
     begin
       HUInformationMsgOK('Caption', 'Creating Data Directories');
154:
155:
       CreateUserDataDirectories;
     end;// if HUErrorMsqYN(' No User Directory', 'Create One ?') = mrYes
156:
157:
158:
   end;// if UserDataDirectoriesExist(pUserDirectory)
159:
160: end;// function TfrmAppSetupApplicationDirectoryp.UserFIlesExist
161:
163: function TfrmSettings.CreateUserDataDirectories : Boolean;
164: begin
165:
     // USER DATA DIRECTORY
166:
167:
    pUserDataDirectory := frmSettings.pSystemUserDirectory + cstrUserDataDirectoryPath;
168:
    if not CreateDir(pUserDataDirectory) then
169:
170: begin
     showmessage('USER DATA DIRECTORY FAILED');
171:
172:
     Result := False;
173:
     Main.TerminateApp;
174:
   end;// if not CreateDir(pUserDataDirectory)
175:
176:
     // SETTINGS DIRECTORY
177:
178:
    pSettingsDirectory := pUserDataDirectory + '\' + cstrSettingsDirectoryName;
```

```
179:
     if not CreateDir(pSettingsDirectory)then
180:
      showmessage('SETTINGS DIRECTORY FAILED');
181:
      Result := False;
182:
183:
     Main.TerminateApp;
184:
    end;// if not CreateDir(pSettingsDirectory)
185:
186:
     // LOGBOOKS DIRECTORY
187:
    pLogbooksDirectory := pUserDataDirectory + '\' + cstrLogbooksDirectoryName;
188: if not CreateDir(pLogbooksDirectory) then
189:
    begin
     showmessage('LOGBOOKS DIRECTORY FAILED');
190:
191:
      Result := False;
192:
      Main.TerminateApp;
193: end; // if not CreateDir(pLogbooksDirectory)
194:
     // BACKUPS DIRECTORY
195:
     pBackupsDirectory := pUserDataDirectory + '\' + cstrBackupsDirectoryName;
196:
197:
    if not CreateDir(pBackupsDirectory)then
198: begin
     showmessage('BACKUP DIRECTORY FAILED');
199:
200:
      Result := False;
201:
      Main.TerminateApp;
202:
    end;// if not CreateDir(pBackupsDirectory)
203:
204:
     // Load the databases
     CopyFile (frmSettings.pApplicationDirectory +
205:
             '\' + 'UserData' + '\' + 'ApplicationDB.sl3',
206:
207:
             frmSettings.pUserDataDirectory + '\' + 'ApplicationDB.sl3');
208:
209:
    CopyFile (frmSettings.pApplicationDirectory +
             '\' + 'UserData' + '\' + 'LogbooksDB.sl3',
210:
             frmSettings.pUserDataDirectory + '\' + 'LogbooksDB.sl3');
211:
212:
213: CopyFile (frmSettings.pApplicationDirectory +
             '\' + 'UserData' + '\' + 'ManufacturersDB.sl3',
214:
215:
             frmSettings.pUserDataDirectory + '\' + 'ManufacturersDB.sl3');
216:
217: //
        CopyFile (frmSettings.pApplicationDirectory +
218: //
                 '\' + 'UserData' + '\' + frmHUGeoDB.pHUGeoDBName,
                 frmHUGeoDB.pHUGeoDBPath);
219: //
220:
221: Result := True;
222:
223: end;// function CreateUserDataDirectories
224:
226: //
            PUBLIC ROUTINES
PROPERTY ROUTINES
232: function TfrmSettings.GetApplicationDirectory: string;
233: begin
      Result := fApplicationDirectory;
234:
235: end;// function TfrmSettings.GetApplicationDirectory
236:
237: //-----
238: procedure TfrmSettings.SetApplicationDirectory(Dir: string);
```

```
239: begin
240:
      fApplicationDirectory := Dir;
241: end; // procedure TfrmSettings.SetApplicationDirectory
242:
244: function TfrmSettings.GetAppName: string;
245: begin
    Result := fAppName;
246:
247: end;// function TfrmSettings.GetAppName
249: //-----
250: procedure TfrmSettings.SetAppName(AppName: string);
251: begin
252:
      fAppName := AppName;
253: end;// procedure TfrmSettings.SetAppName
254:
256: function TfrmSettings.GetUserDataDirectory: string;
257: begin
258:
    Result := fUserDataDirectory;
259: end;// function TfrmSettings.GetUserDataDirectory
261: //-----
262: procedure TfrmSettings.SetUserDataDirectory(Dir: string);
263: begin
     fUserDataDirectory := Dir;
265: end;// procedure TfrmSettings.SetUserDataDirectory
266:
268: function TfrmSettings.GetSystemUserDirectory: string;
269: begin
     Result := fSystemUserDirectory;
271: end;// function TfrmSettings.GetSystemUserDirectory
272:
273: //-----
274: procedure TfrmSettings.SetSystemUserDirectory(Dir: string);
275: begin
276:
      fSystemUserDirectory := Dir;
277: end;// procedure TfrmSettings.SetSystemUserDirectory
280: function TfrmSettings.GetSettingsDirectory: string;
281: begin
     Result := fSettingsDirectory;
282:
283: end; // procedure TfrmSettings.GetAppSettingsDirectory
284:
285: //-----
286: procedure TfrmSettings.SetSettingsDirectory(Dir: string);
287: begin
     fSettingsDirectory := Dir;
289: end; // procedure TfrmSettings.SetAppSettingsDirectory
292: function TfrmSettings.GetLogbooksDirectory: string;
293: begin
     Result := fLogbooksDirectory;
294:
295: end;// procedure TfrmSettings.GetLogbooksDirectory
297: //----
298: procedure TfrmSettings.SetLogbooksDirectory(Dir: string);
```

```
299: begin
300:
     fLogbooksDirectory := Dir;
301: end;// procedure TfrmSettings.SetLogbooksDirectory
302:
304: function TfrmSettings.GetBackupsDirectory: string;
305: begin
306:
    Result := fBackupsDirectory;
307: end;// procedure TfrmSettings.GetBackupsDirectory
309: //-----
310: procedure TfrmSettings.SetBackupsDirectory(Dir: string);
311: begin
     fBackupsDirectory := Dir;
312:
313: end;// procedure TfrmSettings.SetBackupsDirectory
314:
316: function TfrmSettings.GetOwnerFirstName: string;
317: begin
318:
    Result := fOwnerFirstName;
319: end;// procedure TfrmSettings.GetOwnerFirstName
320:
321: //-----
322: procedure TfrmSettings.SetOwnerFirstName(FirstName: string);
323: begin
     fOwnerFirstName := FirstName;
325: end;// procedure TfrmSettings.SetOwnerFirstName
326:
328: function TfrmSettings.GetOwnerLastName: string;
329: begin
    Result := fOwnerLastName;
330:
331: end;// procedure TfrmSettings.GetOwnerLastName
332:
333: //-----
334: procedure TfrmSettings.SetOwnerLastName(LastName: string);
335: begin
336:
     fOwnerLastName := LastName;
337: end;// procedure TfrmSettings.SetOwnerLastName
340: function TfrmSettings.GetOwnerCallsign: string;
341: begin
    Result := fOwnerCallsign;
342:
343: end;// procedure TfrmSettings.GetOwnerCallsign
344:
345: //-----
346: procedure TfrmSettings.SetOwnerCallsign(Callsign: string);
347: begin
     fOwnerCallsign := Callsign;
349: end;// procedure TfrmSettings.SetOwnerCallsign
350:
352: function TfrmSettings.GetOwnerEmailAddress: string;
353: begin
     Result := fOwnerEmailAddress;
354:
355: end;// procedure TfrmSettings.GetOwnerEmailAddress
357: //-----
358: procedure TfrmSettings.SetOwnerEmailAddress(EmailAddress: string);
```

```
359: begin
360:
     fOwnerEmailAddress := EMailAddress;
361: end;// procedure TfrmSettings.SetOwnerEmailAddress
364: function TfrmSettings.GetOwnerID: string;
365: begin
366: Result := fOwnerID;
367: end;// procedure TfrmSettings.GetUserID
369: //-----
370: procedure TfrmSettings.SetOwnerID(OwnerID: string);
371: begin
372:
     fOwnerID := OwnerID;
373: end;// procedure TfrmSettings.SetOwnerID
374:
376: //
         MENU ROUTINES
380: //
          COMMAND BUTTON ROUTINES
382: procedure TfrmSettings.bbtCancelClick(Sender: TObject);
383: begin
384:
385: end;// procedure TfrmSettings.bbtCancelClick
388: procedure TfrmSettings.bbtOkClick(Sender: TObject);
389: begin
390:
391: end;// procedure TfrmSettings.bbtOkClick
392:
CONTROL ROUTINES
396: procedure TfrmSettings.edtSettingsDirectoryMouseUp(Sender: TObject;
397: Button: TMouseButton; Shift: TShiftState; X, Y: Integer);
398: begin
399: If Button = mbRight then
    showmessage('Mouse Up');
400:
401: end;// procedure TfrmSettings.edtSettingsDirectoryMouseUp
402:
FILE ROUTINES
406: const
407: cstrApplicationINIFileName = 'RVMasterLog.ini';
408:
    cstrUserDirectories = 'USER DIRECTORIES';
409:
    cstrKeyuserDirectory = 'User Directory';
410:
    cstrKeySettingsDirectory = 'Settings Directory';
411:
    cstrKeyLogbooksDirectory = 'Logbooks Directory';
412:
413:
    cstrKeyBackupsDirectory = 'Backups Directory';
    cstrRegistrationData = 'REGISTRATION DATA';
414:
415:
    cstrKeyOwnerFirstName = 'Owner First Name';
    cstrKeyOwnerLastName = 'Owner Last Name';
416:
    cstrKeyOwnerCallsign = 'Owner Callsign';
417:
    cstrKeyOwnerEmailAddress = 'Owner Email Address';
418:
```

```
419:
     cstrKeyOwnerID = 'Owner ID';
420:
421: var
422: ApplicationINIFile: TINIFile;
423: ApplicationINIFileName : string;
424:
425:
     426:
     //
             SettingsINIFile
     427:
428:
429: //-----
430: //-----
431: procedure TfrmSettings.ReadSettingsINIFile;
432:
433: var
434: vstrTStr : string;
435:
436: begin
437:
438: showmessage('ReadSettingsINIFile');
439:
440: ApplicationINIFileName := pApplicationDirectory + '\' + cstrApplicationINIFileName;
    ApplicationINIFile := TINIFile.Create(ApplicationINIFileName);
441:
442:
    // DIRECTORY SECTION
443:
444:
      // USER Directory
445:
446:
     vstrTStr := ApplicationINIFile.ReadString(cstrUserDirectories,
447:
                                                     cstrKeyUserDirectory,
448:
                                                     pSystemUserDirectory);
449:
     pSystemUserDirectory := vstrTStr;
450:
     // SETTINGS DIRECTORY
451:
452:
     vstrTStr := ApplicationINIFile.ReadString(cstrUserDirectories,
                                                   cstrKeySettingsDirectory,
453:
454:
                                                   pSettingsDirectory);
455:
    pSettingsDirectory := vstrTStr;
456:
457:
       // LOGBOOKS DIRECTORY
458:
     vstrTStr := ApplicationINIFile.ReadString(cstrUserDirectories,
459:
                                          cstrKeyLogbooksDirectory,
460:
                                          pLogbooksDirectory);
461:
    pLogbooksDirectory := vstrTStr;
462:
      // BACKUPS DIRECTORY
463:
464:
      vstrTStr := ApplicationINIFile.ReadString(cstrUserDirectories,
465:
                                          cstrKeyBackupsDirectory,
466:
                                          pBackupsDirectory);
    pBackupsDirectory := vstrTStr;
467:
468:
     // REGISTRATION DATA
469:
470:
      // Owner First Name
471:
472:
     vstrTStr := ApplicationINIFile.ReadString(cstrRegistrationData,
                                                     cstrKeyOwnerFirstName,
473:
474:
                                                     pOwnerFirstName);
475:
476:
       // Owner Last Name
477: vstrTStr := ApplicationINIFile.ReadString(cstrRegistrationData,
                                                   cstrKeyOwnerLastName,
478:
```

```
479:
                                                         pOwnerLastName);
480:
481:
        // Owner Callsign
482: vstrTStr := ApplicationINIFile.ReadString(cstrRegistrationData,
                                                       cstrKeyOwnerCallsign,
484:
                                                       pOwnerCallsign);
485:
486:
        // Owner Email Address
487: vstrTStr := ApplicationINIFile.ReadString(cstrRegistrationData,
                                                    cstrKeyOwnerEmailAddress,
489:
                                                    pOwnerEmailAddress);
490:
491:
        // OwnerID
492: vstrTStr := ApplicationINIFile.ReadString(cstrRegistrationData,
                                                cstrKeyOwnerID,
494:
                                                pOwnerID);
495:
496:
      ApplicationINIFile.Free;
497:
498: end;// procedure TfrmSettings.ReadSettingsINIFile
499:
500: //-----
501: procedure TfrmSettings.WriteSettingsINIFile;
502: begin
503:
504:
        ApplicationINIFileName := pApplicationDirectory + '\' + cstrApplicationINIFileName;
505:
        ApplicationINIFile := TINIFile.Create(ApplicationINIFileName);
506:
507:
        // DIRECTORY SECTION
508:
509:
          // USER Directory
        ApplicationINIFile.WriteString(cstrUserDirectories,
510:
511:
                                       cstrKeyUserDirectory,
512:
                                       pUserDataDirectory);
513:
514:
        ApplicationINIFile.WriteString(cstrUserDirectories,
515:
                                        cstrKeySettingsDirectory,
516:
                                        pSettingsDirectory);
517:
518:
        ApplicationINIFile.WriteString(cstrUserDirectories,
519:
                                        cstrKeyLogbooksDirectory,
520:
                                        pLogbooksDirectory);
521 •
522:
        ApplicationINIFile.WriteString(cstrUserDirectories,
523:
                                        cstrKeyBackupsDirectory,
524:
                                        pBackupsDirectory);
525:
526:
        // REGISTRATION DATA
527:
528:
          // Owner First Name
        ApplicationINIFile.WriteString(cstrRegistrationData,
529:
                                       cstrKeyOwnerFirstName,
530:
531:
                                       pOwnerFirstName);
532:
533:
        // Owner Last Name
        ApplicationINIFile.WriteString(cstrRegistrationData,
534:
535:
                                       cstrKeyOwnerLastName,
536:
                                       pOwnerLastName);
537:
538:
        // Owner Callsign
```

```
539:
       ApplicationINIFile.WriteString(cstrRegistrationData,
540:
                               cstrKeyOwnerCallsign,
541:
                               pOwnerCallsign);
542:
543:
      // Owner Email Address
      ApplicationINIFile.WriteString(cstrRegistrationData,
544:
                               cstrKeyOwnerEmailAddress,
545:
546:
                               pOwnerEmailAddress);
547:
      // OwnerID
548:
549:
      ApplicationINIFile.WriteString(cstrRegistrationData,
550:
                               cstrKeyOwnerID,
551:
                               pOwnerID);
552:
553:
      ApplicationINIFile.Free;
554:
555: end;// procedure TfrmSettings.WriteSettingsINIFile
556:
FORM ROUTINES
560: procedure TfrmSettings.FormCreate(Sender: TObject);
561: begin
562:
563: pAppName := cstrAppName;
564: pApplicationDirectory := GetCurrentDir;
565: pSystemUserDirectory := GetUserDir;
566: pUserDataDirectory := frmSettings.pSystemUserDirectory + cstrUserDataDirectoryPath;
    pSettingsDirectory := pUserDataDirectory + '\' + cstrSettingsDirectoryName;
567:
568:
569: end;// procedure TfrmAppSetup.FormCreate
570:
571: //-----
572: procedure TfrmSettings.FormShow(Sender: TObject);
573: begin
574:
575:
     // Load current properties
576:
    edtApplicationDirectory.Text:= pApplicationDirectory;
577: edtSettingsDirectory.Text:=pSettingsDirectory;
578:
     edtLogbooksDirectory.Text:=pLogbooksDirectory;
     edtBackupsDirectory.Text := pBackupsDirectory;
579:
580:
581: end; // procedure TfrmAppSetup.FormShow
582:
583: //-----
584: procedure TfrmSettings.FormClose(Sender: TObject; var CloseAction: TCloseAction);
585: begin
586:
587: end;// procedure TfrmAppSetup.FormClose
591: end.// unit AppSettings
```

592: