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1: unit INIStuff;
2:
3: {$mode objfpc}{$H+}
4:
5: //=====
6: //
7: //  INIStuff.pas
8: //
9: //  This unit provides all INI file functionality.
10: //
11: //  Calls: AppConstants
12: //          Main
13: //          Register
14: //
15: //  Called By: Init : Initialize
16: //              Final : Finalize
17: //
18: //  Ver: 1.0.0
19: //
20: //  Date: 21 Dec 2013
21: //
22: //=====
23:
24: interface
25:
26: uses
27:   Classes, SysUtils, INIFiles, Dialogs,
28:   // Application units
29:   AppConstants, AppVariables, Register;
30:
31: var
32:   INIFile : TINIFile;
33:
34: procedure ReadINIFile;
35: procedure WriteINIFile;
36:
37: implementation
38:
39: uses
40:   Main;
41:
42: const
43:   cstrSectionCONFIG = 'CONFIG';
44:   cstrKeyCOMPort = 'COM Port';
45:   cstrKeyColourScheme = 'Colour Scheme';
46:   cstrSectionTMVFILES = 'TMV FILES';
47:   cstrKeyTMVFileName = 'TMVFileName';
48:   cstrSectionUHF = 'UHF';
49:   cstrKeyUHFDDataSource = 'UHF Data Source';
50:   cstrKeyUHFRRxFrequency = 'UHF RX Frequency';
51:   cstrKeyUHFStep = 'UHF Step';
52:   cstrKeyUHFShift = 'UHF Shift';
53:   cstrKeyUHFReverse = 'UHF Reverse';
54:   cstrKeyUHFTone = 'UHF Tone';
55:   cstrKeyUHFCTCSS = 'UHF CTCSS';
56:   cstrKeyUHFDTSSTSS = 'UHF DTSS';
57:   cstrKeyUHFToneNr = 'UHF Tone Nr';
58:   cstrKeyUHFDTSSTSSCode = 'UHF DTSS Code';
59:   cstrKeyUHFCTCSSNr = 'UHF CTCSS Nr';
60:   cstrKeyUHFOffset = 'UHF Offset';

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61:     cstrKeyUHFSscan = 'UHF Scan';
62:     cstrKeyUHFSplitFreq = 'UHF Split Freq';
63:     cstrKeyUHFSplitStep = 'UHF Split Step';
64:     cstrKeyUHFRFPower = 'UHF RF Power';
65:     cstrKeyUHFChannelName = 'UHF Channel Name';
66:     cstrKeyUHFComments = 'UHF Comments';
67:     cstrKeyUHFAudioLevel = 'UHF Audio Level';
68:     cstrKeyUHFSquelchLevel = 'UHF Squelch Level';
69:     cstrKeyUHFReverseState = 'UHF Reverse State';
70:     cstrKeyUHFChannelNumber = 'UHF Channel Number';
71: cstrSectionVHF = 'VHF';
72:     cstrKeyVHFDataSource = 'VHF Data Source';
73:     cstrKeyVHFRxFrequency = 'VHF RX Frequency';
74:     cstrKeyVHFStep = 'VHF Step';
75:     cstrKeyVHFShift = 'VHF Shift';
76:     cstrKeyVHFReverse = 'VHF Reverse';
77:     cstrKeyVHFTone = 'VHF Tone';
78:     cstrKeyVHFCTCSS = 'VHF CTCSS';
79:     cstrKeyVHFDTSS = 'VHF DTSS';
80:     cstrKeyVHFToneNr = 'VHF Tone Nr';
81:     cstrKeyVHFDTSSCode = 'VHF DTSS Code';
82:     cstrKeyVHFCTCSSNr = 'VHF CTCSS Nr';
83:     cstrKeyVHFOffset = 'VHF Offset';
84:     cstrKeyVHFScan = 'VHF Scan';
85:     cstrKeyVHFSplitFreq = 'VHF Split Freq';
86:     cstrKeyVHFSplitStep = 'VHF Split Step';
87:     cstrKeyVHFRFPower = 'VHF RF Power';
88:     cstrKeyVHFChannelName = 'VHF Channel Name';
89:     cstrKeyVHFComments = 'VHF Comments';
90:     cstrKeyVHFAudioLevel = 'VHF Audio Level';
91:     cstrKeyVHFSquelchLevel = 'VHF Squelch Level';
92:     cstrKeyVHFReverseState = 'VHF Reverse State';
93:     cstrKeyVHFChannelNumber = 'VHF Channel Number';
94: cstrSectionLCDDisplay = 'LCD DISPLAY';
95:     cstrKeyPTTBand = 'PTT Band';
96: cstrSectionColourSchemes = 'COLOUR SCHEMES';
97:     cstrKeyCurrentColourScheme = 'Current Colour Scheme';
98: cstrSectionRegistration = 'REGISTRATION';
99:     cstrKeyRegistered = 'Registered';
100:     cstrKeyRegisteredName = 'Registered Name';
101:     cstrKeyRegisteredCall = 'Registered Call';
102:     cstrKeyRegistrationKey = 'Registration Key';
103: cstrSectionRegistrationDialog = 'REGISTRATION DIALOG';
104:     cstrKeyRegistrationDialogTop = 'Top';
105:     cstrKeyRegistrationDialogLeft = 'Left';
106: cstrSectionMainForm = 'MAIN FORM';
107:     cstrKeyMainFormTop = 'Top';
108:     cstrKeyMainFormLeft = 'Left';
109:
110:
111: var
112:     vstrINIFileName : string;
113:
114: procedure ReadINIFile;
115:
116: var
117:     vstrTstr : string;
118:
119: begin
120:

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121:   vstrINIFileName := gvstrAppPath + gcstrAppName + '.ini';
122:   INIFile := TINIFile.Create(vstrINIFileName);
123:
124:   // CONFIG SECTION
125:   gvstrCOMPort := INIFile.ReadString (cstrSectionCONFIG, cstrKeyCOMPort, gcstrDefCOMPort);
126:
127:   // TMVFILES SECTION
128:   gvstrTMVFileName := INIFile.ReadString (cstrSectionTMVFILES, cstrKeyTMVFileName, '');
129:
130:   // UHF CHANNEL SECTION
131:   gvstrUHFDDataSource := INIFile.ReadString (cstrSectionUHF,
132:       cstrKeyUHFDDataSource, gcstrUHFDDefDataSource);
133:   gvstrUHFRRXFrequency := INIFile.ReadString (cstrSectionUHF,
134:       cstrKeyUHFRRXFrequency, gcstrDefUHFRRXFrequency);
135:   gvstrUHFStep := INIFile.ReadString (cstrSectionUHF,
136:       cstrKeyUHFStep, gcstrDefUHFStep);
137:   gvstrUHFShift := INIFile.ReadString (cstrSectionUHF,
138:       cstrKeyUHFShift, gcstrDefUHFShift);
139:   gvstrUHFReverse := INIFile.ReadString (cstrSectionUHF,
140:       cstrKeyUHFReverse, gcstrDefUHFReverse);
141:   gvstrUHFTone := INIFile.ReadString (cstrSectionUHF,
142:       cstrKeyUHFTone, gcstrDefUHFTone);
143:   gvstrUHFCTCSS := INIFile.ReadString (cstrSectionUHF,
144:       cstrKeyUHFCTCSS, gcstrDefUHFCTCSS);
145:   gvstrUHFDTSS := INIFile.ReadString (cstrSectionUHF,
146:       cstrKeyUHFDTSS, gcstrDefUHFDTSS);
147:   gvstrUHFToneNr := INIFile.ReadString (cstrSectionUHF,
148:       cstrKeyUHFToneNr, gcstrDefUHFToneNr);
149:   gvstrUHFDTSSCode := INIFile.ReadString (cstrSectionUHF,
150:       cstrKeyUHFDTSSCode, gcstrDefUHFDTSSCode);
151:   gvstrUHFCTCSSNr := INIFile.ReadString (cstrSectionUHF,
152:       cstrKeyUHFCTCSSNr, gcstrDefUHFCTCSSNr);
153:   gvstrUHFOffset := INIFile.ReadString (cstrSectionUHF,
154:       cstrKeyUHFOffset, gcstrDefUHFOffset);
155:   gvstrUHFSscan := INIFile.ReadString (cstrSectionUHF,
156:       cstrKeyUHFSscan, gcstrDefUHFSscan);
157:   gvstrUHFSplitFrequency := INIFile.ReadString (cstrSectionUHF,
158:       cstrKeyUHFSplitFreq, gcstrDefUHFSplitFrequency);
159:   gvstrUHFSplitStep := INIFile.ReadString (cstrSectionUHF,
160:       cstrKeyUHFSplitStep, gcstrDefUHFSplitStep);
161:   gvstrUHFRRFPower := INIFile.ReadString (cstrSectionUHF,
162:       cstrKeyUHFRRFPower, gcstrDefUHFRRFPower);
163:   gvstrUHFChannelName := INIFile.ReadString (cstrSectionUHF,
164:       cstrKeyUHFChannelName, gcstrDefUHFChannelName);
165:   gvstrUHFChannelComments := INIFile.ReadString (cstrSectionUHF,
166:       cstrKeyUHFComments, gcstrDefUHFChannelComments);
167:   gvstrUHFAudioLevel := INIFile.ReadString (cstrSectionUHF,
168:       cstrKeyUHFAudioLevel, gcstrDefUHFAudioLevel);
169:   gvstrUHFSquelchLevel := INIFile.ReadString (cstrSectionUHF,
170:       cstrKeyUHFSquelchLevel, gcstrDefUHFSquelchLevel);
171:   gvstrUHFReverseState := INIFile.ReadString (cstrSectionUHF,
172:       cstrKeyUHFReverseState, gcstrDefUHFReverseState);
173:   gvstrUHFChannelNr := INIFile.ReadString (cstrSectionUHF,
174:       cstrKeyUHFChannelNumber, '');
175:
176:   // VHF CHANNEL SECTION
177:   gvstrVHFDataSource := INIFile.ReadString (cstrSectionVHF,
178:       cstrKeyVHFDataSource, gcstrVHFDefDataSource);
179:   gvstrVHFRRXFrequency := INIFile.ReadString (cstrSectionVHF,
180:       cstrKeyVHFRRXFrequency, gcstrDefVHFRRXFrequency);
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181: gvstrVHFStep := INIFile.ReadString (cstrSectionVHF,
182:                                     cstrKeyVHFStep, gcstrDefVHFStep);
183: gvstrVHFShift := INIFile.ReadString (cstrSectionVHF,
184:                                     cstrKeyVHFShift, gcstrDefVHFShift);
185: gvstrVHFReverse := INIFile.ReadString (cstrSectionVHF,
186:                                     cstrKeyVHFReverse, gcstrDefVHFReverse);
187: gvstrVHFTone := INIFile.ReadString (cstrSectionUHF,
188:                                    cstrKeyVHFTone, gcstrDefVHFTone);
189: gvstrVHFCTCSS := INIFile.ReadString (cstrSectionVHF,
190:                                     cstrKeyVHFCTCSS, gcstrDefVHFCTCSS);
191: gvstrVHFDTSS := INIFile.ReadString (cstrSectionVHF,
192:                                    cstrKeyVHFDTSS, gcstrDefVHFDTSS);
193: gvstrVHFToneNr := INIFile.ReadString (cstrSectionUHF,
194:                                       cstrKeyVHFToneNr, gcstrDefVHFToneNr);
195: gvstrVHFDTSSCode := INIFile.ReadString (cstrSectionVHF,
196:                                         cstrKeyVHFDTSSCode, gcstrDefVHFDTSSCode);
197: gvstrVHFCTCSSNr := INIFile.ReadString (cstrSectionVHF,
198:                                         cstrKeyVHFCTCSSNr, gcstrDefVHFCTCSSNr);
199: gvstrVHFOffset := INIFile.ReadString (cstrSectionVHF,
200:                                       cstrKeyVHFOffset, gcstrDefVHFOffset);
201: gvstrVHFScan := INIFile.ReadString (cstrSectionVHF,
202:                                    cstrKeyVHFScan, gcstrDefVHFScan);
203: gvstrVHFSplitFrequency := INIFile.ReadString (cstrSectionVHF,
204:                                                cstrKeyVHFSplitFreq, gcstrDefVHFSplitFrequency);
205: gvstrVHFSplitStep := INIFile.ReadString (cstrSectionVHF,
206:                                           cstrKeyVHFSplitStep, gcstrDefVHFSplitStep);
207: gvstrVHFRFPower := INIFile.ReadString (cstrSectionVHF,
208:                                         cstrKeyVHFRFPower, gcstrDefVHFRFPower);
209: gvstrVHFChannelName := INIFile.ReadString (cstrSectionVHF,
210:                                             cstrKeyVHFChannelName, gcstrDefVHFChannelName);
211: gvstrVHFChannelComments := INIFile.ReadString (cstrSectionVHF,
212:                                                  cstrKeyVHFComments, gcstrDefVHFChannelComments);
213: gvstrVHFAudioLevel := INIFile.ReadString (cstrSectionVHF,
214:                                             cstrKeyVHFAudioLevel, gcstrDefVHFAudioLevel);
215: gvstrVHFSquelchLevel := INIFile.ReadString (cstrSectionVHF,
216:                                               cstrKeyVHFSquelchLevel, gcstrDefVHFSquelchLevel);
217: gvstrVHFReverseState := INIFile.ReadString (cstrSectionVHF,
218:                                              cstrKeyVHFReverseState, gcstrDefVHFReverseState);
219: gvstrVHFChannelNr := INIFile.ReadString (cstrSectionVHF,
220:                                           cstrKeyVHFChannelNumber, '');
221:
222: // LCD DISPLAY SECTION
223: gvstrPTTBand := INIFile.ReadString (cstrSectionLCDDisplay,
224:                                     cstrKeyPTTBand, gcstrVHF);
225:
226: // COLOUR SCHEMES SECTION
227: gvstrCurrentColourScheme := INIFile.ReadString (cstrSectionColourSchemes,
228:                                                  cstrKeyCurrentColourScheme, gcstrDefaultColourScheme);
229:
230: // REGISTRATION SECTION
231: gvblnRegistered := INIFile.ReadBool (cstrSectionRegistration,
232:                                       cstrKeyRegistered, False);
233:
234: gvstrRegisteredName := INIFile.ReadString (cstrSectionRegistration,
235:                                             cstrKeyRegisteredName, '');
236:
237: gvstrRegisteredCall := INIFile.ReadString (cstrSectionRegistration,
238:                                             cstrKeyRegisteredCall, '');
239:
240: gvstrRegistrationKey := INIFile.ReadString (cstrSectionRegistration,
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241:         cstrKeyRegistrationKey, '');
242:
243: // REGISTRATION DIALOG
244: dlgRegister.Top := INIFile.ReadInteger (cstrSectionRegistrationDialog,
245:         cstrKeyRegistrationDialogTop, dlgRegister.Top);
246: dlgRegister.Left := INIFile.ReadInteger (cstrSectionRegistrationDialog,
247:         cstrKeyRegistrationDialogLeft, dlgRegister.Left);
248:
249: // MAIN FORM
250: frmMain.Top := INIFile.ReadInteger (cstrSectionMainForm,
251:         cstrKeyMainFormTop, frmMain.Top);
252: frmMain.Left := INIFile.ReadInteger (cstrSectionMainForm,
253:         cstrKeyMainFormLeft, frmMain.Left);
254:
255: end; // procedure ReadINIFile
256:
257: procedure WriteINIFile;
258: begin
259:
260:     // CONFIG SECTION
261:     INIFile.WriteString (cstrSectionCONFIG, cstrKeyCOMPort, gvstrCOMPort);
262:
263:     // TMVFILES SECTION
264:     INIFile.WriteString (cstrSectionTMVFILES, cstrKeyTMVFileName, gvstrTMVFileName);
265:
266:     // UHF SECTION
267:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFDDataSource, gvstrUHFDDataSource);
268: // INIFile.WriteString (cstrSectionUHF, cstrKeyUHFChannelNr, gvstrUHFChannelNr);
269:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFRRxFrequency, gvstrUHFRRxFrequency);
270:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFStep, gvstrUHFStep);
271:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFShift, gvstrUHFShift);
272:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFReverse, gvstrUHFReverse);
273:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFTone, gvstrUHFTone);
274:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFCTCSS, gvstrUHFCTCSS);
275:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFDTS, gvstrUHFDTS);
276:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFToneNr, gvstrUHFToneNr);
277:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFDTSCode, gvstrUHFDTSCode);
278:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFCTCSSNr, gvstrUHFCTCSSNr);
279:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFOffset, gvstrUHFOffset);
280:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFScan, gvstrUHFScan);
281:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFSplitFreq, gvstrUHFSplitFrequency);
282:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFSplitStep, gvstrUHFSplitStep);
283:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFRRFPower, gvstrUHFRRFPower);
284:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFChannelName, gvstrUHFChannelName);
285:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFComments, gvstrUHFChannelComments);
286:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFAudioLevel, gvstrUHFAudioLevel);
287:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFSquelchLevel, gvstrUHFSquelchLevel);
288:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFReverseState, gvstrUHFReverseState);
289:     INIFile.WriteString (cstrSectionUHF, cstrKeyUHFChannelNumber, gvstrUHFChannelNr);
290:
291:     // VHF SECTION
292:     INIFile.WriteString (cstrSectionVHF, cstrKeyVHFDDataSource, gvstrVHFDDataSource);
293: // INIFile.WriteString (cstrSectionVHF, cstrKeyVHFChannelNr, gvstrVHFChannelNr);
294:     INIFile.WriteString (cstrSectionVHF, cstrKeyVHFRRxFrequency, gvstrVHFRRxFrequency);
295:     INIFile.WriteString (cstrSectionVHF, cstrKeyVHFStep, gvstrVHFStep);
296:     INIFile.WriteString (cstrSectionVHF, cstrKeyVHFShift, gvstrVHFShift);
297:     INIFile.WriteString (cstrSectionVHF, cstrKeyVHFReverse, gvstrVHFReverse);
298:     INIFile.WriteString (cstrSectionVHF, cstrKeyVHFTone, gvstrVHFTone);
299:     INIFile.WriteString (cstrSectionVHF, cstrKeyVHFCTCSS, gvstrVHFCTCSS);
300:     INIFile.WriteString (cstrSectionVHF, cstrKeyVHFDTS, gvstrVHFDTS);

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301: INIFile.WriteString (cstrSectionVHF, cstrKeyVHFToneNr, gvstrVHFToneNr);
302: INIFile.WriteString (cstrSectionVHF, cstrKeyVHFDTSSCode, gvstrVHFDTSSCode);
303: INIFile.WriteString (cstrSectionVHF, cstrKeyVHFCTCSSNr, gvstrVHFCTCSSNr);
304: INIFile.WriteString (cstrSectionVHF, cstrKeyVHFOffset, gvstrVHFOffset);
305: INIFile.WriteString (cstrSectionVHF, cstrKeyVHFScan, gvstrVHFScan);
306: INIFile.WriteString (cstrSectionVHF, cstrKeyVHFSplitFreq, gvstrVHFSplitFrequency);
307: INIFile.WriteString (cstrSectionVHF, cstrKeyVHFSplitStep, gvstrVHFSplitStep);
308: INIFile.WriteString (cstrSectionVHF, cstrKeyVHFRFPower, gvstrVHFRFPower);
309: INIFile.WriteString (cstrSectionVHF, cstrKeyVHFChannelName, gvstrVHFChannelName);
310: INIFile.WriteString (cstrSectionVHF, cstrKeyVHFComments, gvstrVHFChannelComments);
311: INIFile.WriteString (cstrSectionVHF, cstrKeyVHFAudioLevel, gvstrVHFAudioLevel);
312: INIFile.WriteString (cstrSectionVHF, cstrKeyVHFSquelchLevel, gvstrVHFSquelchLevel);
313: INIFile.WriteString (cstrSectionVHF, cstrKeyVHFReverseState, gvstrVHFReverseState);
314: INIFile.WriteString (cstrSectionVHF, cstrKeyVHFChannelNumber, gvstrVHFChannelNr);
315:
316: // LCD DISPLAY SECTION
317: INIFile.WriteString (cstrSectionLCDDisplay, cstrKeyPTTBand, gvstrPTTBand);
318:
319: // COLOUR SCHEMES SECTION
320: INIFile.WriteString (cstrSectionColourSchemes, cstrKeyCurrentColourScheme,
321:                       gvstrCurrentColourScheme);
322:
323: // REGISTRATION SECTION
324: INIFile.WriteBool (cstrSectionRegistration, cstrKeyRegistered,
325:                   gvblnRegistered);
326:
327: INIFile.WriteString (cstrSectionRegistration, cstrKeyRegisteredName,
328:                       gvstrRegisteredName);
329:
330: INIFile.WriteString (cstrSectionRegistration, cstrKeyRegisteredCall,
331:                       gvstrRegisteredCall);
332:
333: INIFile.WriteString (cstrSectionRegistration, cstrKeyRegistrationKey,
334:                       gvstrRegistrationKey);
335:
336: // REGISTRATION DIALOG
337: INIFile.WriteInteger (cstrSectionRegistrationDialog, cstrKeyRegistrationDialogTop,
338:                       dlgRegister.Top);
339: INIFile.WriteInteger (cstrSectionRegistrationDialog, cstrKeyRegistrationDialogLeft,
340:                       dlgRegister.Left);
341:
342: // MAIN FORM
343: INIFile.WriteInteger (cstrSectionMainForm, cstrKeyMainFormTop,
344:                       frmMain.Top);
345: INIFile.WriteInteger (cstrSectionMainForm, cstrKeyMainFormLeft,
346:                       frmMain.Left);
347:
348: INIFile.UpdateFile;
349: INIFile.Free;
350:
351: end;// procedure WriteINIFile
352:
353: end.// unit INIStuff
354:

```