

```

1: unit AppConstants;
2:
3: {$mode objfpc}{$H+}
4:
5: //=====
6: //
7: //  Constants.pas
8: //
9: //  Calls:
10: //
11: //  Called By: AGCommand : SetVHF_AGValue
12: //                  SetUHF_AGValue
13: //                  BCCCommand : TogglePTTBand
14: //                  BUFCCommand : BUFResponseHandler
15: //                  BYCommand : BYResponseHandler
16: //                  DataEntry : TfrmDataEntry.FormActivate
17: //                  TfrmDataEntry.bbtSaveClick
18: //                  DataEntry_FAV : DataEntry_FAV_Init
19: //                  DataEntry_UHFMEM : DataEntry_UHFMEM_Init
20: //                  DataEntry_VHFMEM : DataEntry_VHFMEM_Init
21: //                  Fav : SetFAVChannel
22: //                  Final : Finalize
23: //                  INIStuff : ReadINIFile
24: //                  Init : Initialize
25: //                  LCDDisplay : DisplayBCStatus
26: //                  Main : TfrmMain.mnuFileNewClick
27: //                      TfrmMain.mnuFileOpenClick
28: //                      TfrmMain.mnuFileSaveAsClick
29: //                  Mem : TfrmMEM.Setup
30: //                  Mem__VHF : LoadVHFStringGrid
31: //                      SetVHFChannel
32: //                  Mem__UHF : LoadUHFStringGrid
33: //                      SetUHFChannel
34: //                  Mute : ToggleMute
35: //                  NagScreen : TdlgNagScreen.bbtHelpClick
36: //                  PCCCommand : ToggleRFPower
37: //                  PSCommand : PSResponseHandler
38: //                      TogglePowerOnOff
39: //                  ReportTMV7File : TfrmReportTMV7File.frUserDataset1First
40: //                  Reverse : ToggleReverse
41: //                  RXCommand : RXResponseHandler
42: //                  SerialStuff : OpenPort
43: //                  SMCommand : SetVHF_SMValue
44: //                      SetUHF_SMValue
45: //                      SMResponseHandler
46: //                  SplashAbout : TdlgSplashAbout.ShowAbout
47: //                      TdlgSplashAbout.ShowSplash
48: //                  StatusBar : DisplayCOMPortStatus
49: //                  TMVFiles : MakeFAVRecord
50: //                      MakeUHFRecord
51: //                      NewTMVFile
52: //                      OpenTMVFile
53: //                      ParseFAVRecord
54: //                      WriteTMVFile
55: //                  TMVFiles_FAV : ParseFAVRecord
56: //                      MakeFAVRecord
57: //                  TMVFiles_UHF : ParseUHFRecord
58: //                      MakeUHFRecord
59: //                  TMVFiles_VHF : ParseVHFRecord
60: //                      MakeVHFRecord

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61: // TXCommand : TXResponseHandler
62: // Utilities : GetToneNrFromFrequency
63: // ValidUHFFrequency
64: // ValidVHFFrequency
65: // Variables
66: //
67: // Ver: 1.0.0
68: //
69: // Date: 7 Apr 2014
70: //
71: //=====
72:
73: interface
74:
75: uses
76:   Classes, SysUtils;
77:
78: const
79:
80:   //=====
81:   // APPLICATIONM CONSATNTS
82:   //=====
83:
84:   gcstrAppDate: string = '9 Dec 2013';
85:   gcstrAppName: string = 'TMV7A';
86:   gcstrAppVersion: string = '1.0.0';
87:
88:   gcstrNone = '0';
89:
90:   gcstrOff = '0';
91:   gcstrOn = '1';
92:
93:   gcblnOn = True;
94:   gcblnOff = False;
95:
96:   gcstrUHF = '1';
97:   gcstrVHF = '0';
98:   gcstrDTMF = '2';
99:
100:   gcstrVHFStep = '0';
101:   gcstrUHFFStep = '6';
102:
103:   gcstrRFPowerLow = '2';
104:   gcstrRFPowerMedium = '1';
105:   gcstrRFPowerHigh = '0';
106:
107:   gcstrUHFVFO = gcstrUHF;
108:   gcstrVHFVFO = gcstrVHF;
109:
110:   gcstrShiftSimplex = '0';
111:   gcstrShiftPlus = '1';
112:   gcstrShiftMinus = '2';
113:
114:   gcstrVHFShiftOffset = '00.60';
115:   gcstrUHFFShiftOffset = '05.00';
116:   gcstrNoShiftOffset = '00.00';
117:
118:   gcbytMaxToneIndex = 37;
119:
120:   gcsngMinUHFFrequency = 410.000;

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121: gcsngMaxUHFFrequency = 469.999;
122: gcsngMinVHFFrequency = 118.000;
123: gcsngMaxVHFFrequency = 173.999;
124:
125: //=====
126: //                                ARRAY CONSTANTS
127: //=====
128:
129: // Channel Array Constants
130: gcbytArrayStartValue = 1;
131: gcbytMaxChannelFieldCount = 16 {17};
132: gcbytMaxDTMFFieldCount = 1 {2};
133: gcbytMaxFAVChannels = 12;
134: gcbytMaxVHFChannels = 99;
135: gcbytMaxUHFChannels = 99;
136: gcbytMaxDTMFCodes = 10;
137:
138: gcbytVFOField = 1;
139: gcbytRXFrequencyField = 2;
140: gcbytStepField = 3;
141: gcbytShiftField = 4;
142: gcbytReverseField = 5;
143: gcbytToneField = 6;
144: gcbytCTCSSField = 7;
145: gcbytDTSSField = 8;
146: gcbytToneNrField = 9;
147: gcbytDTSSCodeField = 10;
148: gcbytCTCSSNrField = 11;
149: gcbytShiftOffsetField = 12;
150: gcbytScanField = 13;
151: gcbytRFPowerField = 14;
152: gcbytChannelNameField = 15;
153: gcbytCommentsField = 16;
154:
155: // DTMF Array Constants
156: gcbytMaxDTMFEntries = 10;
157: gcbytMaxDTMFFieldCount = 1;
158:
159: //=====
160: //                                COLOUR SCHEMES
161: //=====
162: gcstrDefaultColourScheme = '1';
163:
164: //=====
165: //                                DEFAULT BUFFER SETTINGS
166: //=====
167:
168: // UHF Default Settings
169: gcstrUHFDfDataSource = 'VFO';
170: gcstrDefUHF_RXFrequency = '00446000000'; // 446.000 MHz
171: gcstrDefUHFStep = '0';
172: gcstrDefUHFShift = gcstrShiftSimplex;
173: gcstrDefUHFReverse = gcstrOff;
174: gcstrDefUHFTone = gcstrOff;
175: gcstrDefUHFCTCSS = gcstrOff;
176: gcstrDefUHFDTSS = gcstrOff;
177: gcstrDefUHFToneNr = '01';
178: gcstrDefUHFDTSSCode = '000';
179: gcstrDefUHFCTCSSNr = '01';
180: gcstrDefUHFOffset = '000000000';

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181: gcstrDefUHFScan = gcstrOff;
182: gcstrDefUHFSplitFrequency = '00446000000'; // 446.000 MHz
183: gcstrDefUHFSplitStep = '0';
184: gcstrDefUHFRFPower = gcstrRFPowerHigh;
185: gcstrDefUHFChannelName = 'Simplex';
186: gcstrDefUHFChannelComments = 'UHF Simplex';
187: gcstrDefUHFAudioLevel = '10';
188: gcstrDefUHFSquelchLevel = '04';
189: gcstrDefUHFReverseState = gcstrOff;
190:
191: // VHF Default Settings
192: gcstrVHFDefDataSource = 'VFO';
193: gcstrDefVHFRXFrequency = '00146520000'; // 146.520 MHz
194: gcstrDefVHFStep = '0';
195: gcstrDefVHFShift = gcstrShiftSimplex;
196: gcstrDefVHFReverse = gcstrOff;
197: gcstrDefVHFTone = gcstrOff;
198: gcstrDefVHFCTCSS = gcstrOff;
199: gcstrDefVHFDTSS = gcstrOff;
200: gcstrDefVHFToneNr = '01';
201: gcstrDefVHFDTSSCode = '000';
202: gcstrDefVHFCTCSSNr = '01';
203: gcstrDefVHFOffset = '000000000';
204: gcstrDefVHFScan = gcstrOff;
205: gcstrDefVHFSplitFrequency = '00146520000'; // 146.520 MHz
206: gcstrDefVHFSplitStep = '0';
207: gcstrDefVHFRFPower = gcstrRFPowerHigh;
208: gcstrDefVHFChannelName = 'Simplex';
209: gcstrDefVHFChannelComments = 'VHF Simplex';
210: gcstrDefVHFAudioLevel = '10';
211: gcstrDefVHFSquelchLevel = '04';
212: gcstrDefVHFReverseState = gcstrOff;
213:
214: //=====
215: //      EDITBOX.TEXT SIZES
216: //=====
217:
218: gcbytMaxCommentsLength = 30;
219: gcbytMinCommentsLength = 0;
220: gcbytMaxChannelNameLength = 15;
221: gcbytMinChannelNameLength = 5;
222: gcbytMaxDTSSCodeLength = 3;
223: gcbytMinDTSSCodeLength = 3;
224: gcbytMaxFrequencyLength = 7;
225: gcbytMinFrequencyLength = 7;
226:
227: //=====
228: //                      FILE CONSTANTS
229: //=====
230:
231: // TMV7 File Constants
232: gcstrTMV7FileDir = 'TMVFiles';
233: gcstrTMV7FileExt = 'tmv';
234: gcstrTMV7VFO_UHF = 'UHF';
235: gcstrTMV7VFO_VHF = 'VHF';
236: gcstrTMV7ShiftSimplex = 'S';
237: gcstrTMV7ShiftPlus = 'P';
238: gcstrTMV7ShiftMinus = 'M';
239: gcstrTMV7On = 'On';
240: gcstrTMV7Off = 'Off';

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241:  gcstrTMV7RFPowerLow = 'L';
242:  gcstrTMV7RFPowerMedium = 'M';
243:  gcstrTMV7RFPowerHigh = 'H';
244:  gcstrTMV7None = 'N';
245:  gcstrTMV7Tone = 'T';
246:  gcstrTMV7CTCSS = 'C';
247:  gcstrTMV7UHFHeader = '[UHF MEMORY]';
248:  gcstrTMV7VHFHeader = '[VHF MEMORY]';
249:  gcstrTMV7FAVHeader = '[FAV MEMORY]';
250:  gcstrTMV7DTMFHeader = '[DTMF MEMORY]';
251:
252:  //=====
253:  //          LCD CONSTANTS
254:  //=====
255:
256:  // LCD Display Constants
257:  gcstrDefPTTBand = 0;
258:
259:  //=====
260:  //          MEM CONSTANTS
261:  //=====
262:  gcbytChMemNrCol = 0;
263:  gcbytNameCol = 1;
264:  gcbytRXFreqCol = 2;
265:  gcbytShiftCol = 3;
266:  gcbytOffsetCol = 4;
267:  gcbytToneCTCSSCol = 5;
268:  gcbytToneCTCSSFreqCol = 6;
269:  gcbytRFPowerCol = 7;
270:  gcbytDTSSCol = 8;
271:  gcbytDTSSCodeCol = 9;
272:  gcbytReverseCol = 10;
273:  gcbytScanCol = 11;
274:  gcbytStepCol = 12;
275:  gcbytCommentCol = 13;
276:
277:  //=====
278:  //          SERIAL PORT CONSTANTS
279:  //=====
280:
281:  // Serial Port Constants
282:  gcstrDefCOMPort = '';
283:  gcstrAutoOpenCOMPort = False;
284:
285: implementation
286:
287: end.// unit AppConstants
288:
```