```
1: unit DataEntry;
3: {$mode objfpc}{$H+}
 6: //
7: // DataEntry.pas
8: //
9: // Calls: AppTypes
10: //
            Constants
11: //
             DataEntry_FAV : DataEntry_FAV_Init
12: //
                          DataEntry Fave Save
13: //
             DataEntry UHFMEM : DataEntry UHFMEM Init
14: //
                             DataEntry UHFMEM Save
15: //
             DataEntry VHFMEM : DataEntry VHFMEM Init
16: //
                             DataEntry VHFMEM Save
17: //
            Main
18: //
            Utilities : GetToneNrFromIndex
19: //
                       GetToneIndexFromToneNr
20: //
                       ValidVHFFrequency
21: //
22: //
            Variables
23: //
24: // Called By: DataEntry FAV : DataEntry FAV Init
25: //
                              DataEntry FAV Save
26: //
                DataEntry MEM : DataEntry MEM Init
27: //
                Main : ProcessFavButton
28: //
                Mem : TfrmMEM.bbtAddClick
29: //
                     TfrmMEM.bbtEditClick
30: //
                TMVFiles : WriteTMVFile
31: //
32: // Ver: 1.0.0
33: //
34: // Date: 8 Dec 2013
35: //
37:
38: interface
39:
40: uses
41: Classes, SysUtils, FileUtil, Forms, Controls, Graphics, Dialogs, ExtCtrls,
42: StdCtrls, Buttons,
43: // Application Units
44: AppConstants, AppTypes, AppVariables, DataEntry FAV, DataEntry UHFMEM, DataEntry VHFMEM,
45: Utilities;
46:
47: type
48:
49: TfrmDataEntry = class(TForm)
50:
     bbtSave: TBitBtn;
     bbtClear: TBitBtn;
51:
52:
     bbtReset: TBitBtn;
53:
     bbtCancel: TBitBtn;
     chkScan: TCheckBox;
54:
55:
     chkDTSS: TCheckBox;
     cbxTones: TComboBox;
56:
57:
     edtComments: TEdit;
58:
     edtChannelName: TEdit;
59:
     edtSource: TEdit;
60:
     edtRXFrequency: TEdit;
```

```
61:
         edtTXFrequency: TEdit;
 62:
         edtDTSSCode: TEdit;
 63:
        edtOffsetShift: TEdit;
 64:
        GroupBox1: TGroupBox;
 65:
       GroupBox2: TGroupBox;
 66:
       GroupBox3: TGroupBox;
 67:
       GroupBox4: TGroupBox;
 68:
        GroupBox5: TGroupBox;
 69:
        Label1: TLabel;
 70:
        Label2: TLabel;
 71:
        Label3: TLabel;
 72:
        Label4: TLabel;
 73:
        Label5: TLabel;
 74:
        Label6: TLabel;
 75:
       Label8: TLabel;
        rbtRFPowerHigh: TRadioButton;
 76:
 77:
        rbtCTCSS: TRadioButton;
 78:
        rbtTone: TRadioButton;
 79:
        rbtNoTones: TRadioButton;
 80:
        rbtRFPowerLow: TRadioButton;
 81:
        rbtRFPowerMedium: TRadioButton;
 82:
        rbtSimplex: TRadioButton;
 83:
        rbtUHF: TRadioButton;
 84:
        rbtVHF: TRadioButton;
 85:
        rbtMinus: TRadioButton;
 86:
        rbtPlus: TRadioButton;
 87:
       procedure bbtCancelClick(Sender: TObject);
 88:
        procedure bbtClearClick(Sender: TObject);
 89:
         procedure bbtResetClick(Sender: TObject);
 90:
        procedure bbtSaveClick(Sender: TObject);
 91:
         procedure chkDTSSChange(Sender: TObject);
 92:
         procedure edtChannelNameKeyPress(Sender: TObject; var Key: char);
 93:
         procedure edtCommentsKeyPress(Sender: TObject; var Key: char);
 94:
         procedure edtDTSSCodeKeyPress(Sender: TObject; var Key: char);
 95:
         procedure edtRXFrequencyExit(Sender: TObject);
         procedure edtRXFrequencyKeyPress(Sender: TObject; var Key: char);
 96:
 97:
         procedure FormActivate(Sender: TObject);
 98:
         procedure rbtMinusChange(Sender: TObject);
 99:
         procedure rbtNoTonesChange(Sender: TObject);
100:
         procedure rbtPlusChange(Sender: TObject);
         procedure rbtSimplexChange(Sender: TObject);
101:
102:
        procedure rbtVHFChange(Sender: TObject);
103:
       private
104:
        { private declarations }
105:
       public
      { public declarations }
106:
107:
         const
          cstrFavFormTitle = 'Favourite Button Data Entry';
108:
109:
          cstrMemFormTitle = 'Memory Channel Data Entry';
110:
111:
        var
112:
          vdetDataEntryType : TDataEntryType;
          vbytChannelNumber : Byte;
113:
114:
115:
        function CalculateTXFrequency : string;
116:
         procedure DisableDTSSCode;
117:
       procedure EnableDTSSCode;
118:
        procedure SetDTSSCode;
119:
         procedure SetShiftOffset;
120:
```

```
122:
123: var
124: frmDataEntry: TfrmDataEntry;
126: implementation
127:
128: {$R *.lfm}
129:
130: uses
131: Main;
132:
133: const
134:
135: cstrInvalidChannelNameMsg = ' Invalid Channel Name' +
136:
                                  #13 +
137:
                                  'The Channel is mandatory and must contain' +
138:
                                  #13 +
                                             5 to 15 characters';
139:
140:
141:
     cstrInvalidDTSSCodeMsg = '
                                          Invalid DTSS Code' +
142:
                               #13 +
143:
                               'The DTSS Code must be in the format nnn' +
144:
                               #13 +
145:
                                      and between 000 and 999'
146:
147: cstrInvalidVHFFrequencyMsg = '
                                            Invalid VHF RX Frequency.' +
                                   #13 +
148:
149:
                                   'The frequency must be in the format nnn.nnn' +
150:
                                   ' and between 118.000 and 173.999';
151:
152:
      cstrInvalidUHFFrequencyMsg = '
                                            Invalid UHF RX Frequency' +
153:
154:
                                   #13 +
155:
                                   'The frequency must be in the format nnn.nnn' +
156:
                                   #13 +
157:
                                          and between 400.000 and 469.999';
158:
     cstrResetMsg = ' Conifirm that you wish to Reset the form.' +
159:
160:
                     #13 +
                      ' This action will reset all data fields to' +
161:
162:
                     #13 +
                     'their original values when the form was opened.';
163:
164:
         cstrCancelMsq = ' Conifirm that you wish to Cancel this entry.' +
165:
166:
                        #13 +
                        'This action will simply close the Data Entry form' +
167:
                        #13 +
168:
169:
                           and make no changes to the original data.';
170:
        cstrClearMsg = ' Conifirm that you wish to Clear this entry.' +
171:
172:
                        #13 +
173:
                        'This action will reset all data entry fields' +
174:
                         #13 +
175:
                                  to their default valuse.';
176:
177:
       cstrContinueMsg = ' Do you want to continue ?';
178:
179: var
180:
```

end;

```
182:
184: //
          SUPPORT ROUTINES
186: function TfrmDataEntry.CalculateTXFrequency: string;
187:
188: var
189: vsngTXFrequency: Single;
190:
191: begin
192:
193:
      if Length(frmDataEntry.edtRXFrequency.Text) > 0 then
194:
     begin
195:
196:
       vsnqTXFrequency := StrToFLoat(frmDataEntry.edtRXFrequency.Text);
197:
       // Calculate based on Band (UHF or VHF) and Shift (Simplex, Plus or Minus)
198:
199:
       if frmDataEntry.rbtVHF.Checked then
200:
       begin
201:
         if frmDataEntry.rbtPlus.Checked then
202:
           vsngTXFrequency := vsngTXFrequency + STrToFloat(gcstrVHFShiftOffset)
203:
         else
204:
           vsngTXFrequency := vsngTXFrequency - STrToFloat(gcstrVHFShiftOffset);
205:
      end
206:
       else
207:
      begin
208:
       if frmDataEntry.rbtPlus.Checked then
209:
         vsngTXFrequency := vsngTXFrequency + STrToFloat(gcstrUHFShiftOffset)
210:
      else
211:
         vsngTXFrequency := vsngTXFrequency - STrToFloat(gcstrUHFShiftOffset);
       end;// if frmDataEntry.rbtVHF.Checked
212:
213:
214:
       Result := Format('%-8.3f', [vsngTXFrequency]);
215: end
216:
      else
       Result := '';// if Length(frmDataEntry.edtRXFrequency.Text > 0
217:
218:
219: end;// function CalculateTXFrequency
221: //-----
222: procedure TfrmDataEntry.SetShiftOffset;
223: begin
224:
     // This routine does a number things, all related to a band change from VHF to UHF.
225:
226:
227:
      // It first checks to see if there is a Frequency in the RX Frequency edit box.
     // If there is none, the rest doesn't matter and we simply adjust the Shift offset
228:
229:
     // value accordingly and Exit.
230:
     if Length (frmDataEntry.edtRXFrequency.Text) = 0 then
231:
     begin
232:
233:
       if frmDataEntry.rbtVHF.Checked then
234:
       begin
235:
         if frmDataEntry.rbtSimplex.Checked then
236:
           frmDataEntry.edtOffsetShift.Text := qcstrNoShiftOffset
237:
238:
           frmDataEntry.edtOffsetShift.Text := gcstrVHFShiftOffset;
239:
      end
240:
       else
```

vblnValidData : Boolean;

```
241:
         begin
242:
           if frmDataEntry.rbtSimplex.Checked then
243:
             frmDataEntry.edtOffsetShift.Text := gcstrNoShiftOffset
244:
           else
245:
             frmDataEntry.edtOffsetShift.Text := gcstrUHFShiftOffset;
246:
         end; // if frmDataEntry.rbtVHF.Checked
247:
248:
        Exit;
249:
250:
       end;// if Length (frmDataEntry.edtRXFrequency.Text) = 0
251:
252:
       // There is a frequency in the edit box, so we check the RX Frequency against the
253:
       // new band selection. If the current frequency is out of band, then an error message
254:
       // is displayed and the user is asked if they wish to continue. If they do, both the
255:
      // RX and TX Frequency edit boxes are cleared and the Shift offset is applied
       // according to the Bnad selected. If they do noy wish to continue, the Bnad selection
256:
257:
       // buttons are returned to their original values and no changes are made.
258:
      if frmDataEntry.rbtVHF.Checked then
259:
      begin
260:
261:
         if not ValidVHFFrequency ( frmDataEntry.edtRXFrequency.Text ) then
262:
263:
           if MessageDlg (cstrInvalidVHFFrequencyMsg + #13 + cstrContinueMsg, mtError,
264:
                           [mbYes, mbNo], 0) = mrNo then
265:
           begin
266:
             frmDataEntry.rbtUHF.Checked := True;
267:
             Exit;
268:
          end
269:
          else
270:
           begin
271:
             frmDataEntry.edtRXFrequency.Text := '';
272:
             frmDataEntry.edtTXFrequency.Text := '';
273:
           end; // if MessageDlg (cstrInvalidVHFFrequencyMsg
274:
         end; // if not ValidVHFFrequency
275:
276:
       end
277: else
278: begin
279:
280:
         if not ValidUHFFrequency ( frmDataEntry.edtRXFrequency.Text ) then
281:
         begin
282:
           if MessageDlg (cstrInvalidUHFFrequencyMsg + #13 + cstrContinueMsg, mtError,
                           [mbYes, mbNo], 0) = mrNo then
283:
284:
           begin
285:
            frmDataEntry.rbtVHF.Checked := True;
286:
             Exit;
287:
           end
288:
           else
289:
           begin
290:
             frmDataEntry.edtRXFrequency.Text := '';
             frmDataEntry.edtTXFrequency.Text := '';
291:
           end;// if MessageDlg ( cstrInvalidVHFFrequencyMsg
292:
293:
         end; // if not ValidUHFFrequency
294:
295:
       end; // if frmDataEntry.rbtVHF.Checked
296:
297:
       if frmDataEntry.rbtVHF.Checked then
298:
     begin
299:
         if frmDataEntry.rbtSimplex.Checked then
300:
           frmDataEntry.edtOffsetShift.Text := ''
```

```
301:
      else
302:
        frmDataEntry.edtOffsetShift.Text := gcstrVHFShiftOffset;
303:
     end
304:
    else
305: begin
306:
      if frmDataEntry.rbtSimplex.Checked then
        frmDataEntry.edtOffsetShift.Text := ''
307:
308:
      else
309:
        frmDataEntry.edtOffsetShift.Text := gcstrUHFShiftOffset;
310:
     end; // if frmDataEntry.rbtVHF.Checked
311:
     frmDataEntry.edtTXFrequency.Text := frmDataEntry.CalculateTXFrequency;
312:
313:
314: end;// procedure SetShifOffset;
316: //-----
317: procedure SetToneFreq;
318: begin
319: if frmDataEntry.rbtNoTones.Checked then
320: frmDataEntry.cbxTones.Text := ''
321:
    else
322: frmDataEntry.cbxTones.Text := IntToStr (frmDataEntry.cbxTones.ItemIndex); //Items[0];
323: end;// procedure SetToneFreq;
324:
325: //-----
326: procedure TfrmDataEntry.SetDTSSCode;
327: begin
328:
329: if frmDataEntry.chkDTSS.Checked then
330:
     frmDataEntry.edtDTSSCode.Text :=
331:
        gvstrFAVChannelDataArray[frmDataEntry.vbytChannelNumber, gcbytDTSSCodeField]
332: else
     frmDataEntry.edtDTSSCode.Text := '';
333:
334:
335: end;// procedure SetDTSSCode;
336:
337: //-----
338: //
       DTSS CODE EDIT BOX ROUTINES
339: //-----
340: procedure TFrmDataEntry.EnableDTSSCode;
341: begin
342:
343:
   frmDataEntry.edtDTSSCode.Enabled := True;
344:
   frmDataEntry.edtDTSSCode.Color := clWhite;
346: end;// procedure EnableDTSSCode;
347:
348: //-----
349: procedure TFrmDataEntry.DisableDTSSCode;
350: begin
351:
352: frmDataEntry.edtDTSSCode.Enabled := False;
353:
    frmDataEntry.edtDTSSCode.Color := clYellow;
354:
355: end;// procedure DisableDTSSCode;
356:
358: //
       FORM ROUTINES
360: procedure TfrmDataEntry.FormActivate(Sender: TObject);
```

```
361:
362: var
363:
     vbytTemp : Integer;
364:
365: begin
366:
367: // Set the Editbox lengths
368:
     edtChannelName.MaxLength := gcbytMaxChannelNameLength;
369: edtComments.MaxLength := gcbytMaxCommentsLength;
370: edtDTSSCode.MaxLength := gcbytMaxDTSSCodeLength;
371:
     edtRXFrequency.MaxLength := gcbytMaxFrequencyLength;
372:
     edtTXFrequency.MaxLength := gcbytMaxFrequencyLength;
373:
     // Init the DTSS edit box
374:
375: DisableDTSSCode;
376:
377:
     // Configure the Command Buttons
378: bbtSave.Enabled := True;
379: bbtClear.Enabled := True;
380: bbtReset.Enabled := True;
381:
     frmDataEntry.bbtCancel.Enabled := True;
382:
383:
     // Set the initial Tab position
384:
    edtRXFrequency.SetFocus;
385:
386:
     // The remainder of the form initialization depends on the Data Entry type
387: case vdetDataEntryType of
388:
389:
      detFAV : DataEntry FAV Init;
390: // detVFO: VFOFormInit;
391:
      detUHFMEM : DataEntry UHFMEM Init;
392:
      detVHFMEM : DataEntry VHFMEM Init;
393:
394:
    end;// case vdetDataEntryType
395:
396: end;// procedure TfrmDataEntry.FormActivate
397:
399: // BUTTON ROUTINES
401: procedure TfrmDataEntry.bbtCancelClick(Sender: TObject);
402: begin
403:
404: if MessageDlg('ConfirmReset', cstrCancelMsg, mtConfirmation, [mbYes, mbNo], 0) = mrYes then
      ModalResult := mrCLose
405:
406: else
407: ModalResult := mrNone;
408:
409: end;// procedure TfrmDataEntry.bbtCancel
411: //-----
412: procedure TfrmDataEntry.bbtClearClick(Sender: TObject);
413:
414: var
415: vbytTemp1 : Byte;
416:
    vbytTemp2 : Byte;
417:
418: begin
419:
420: //==========
```

```
// Clear the data elements
421:
422:
       //==========
423:
424:
       if MessageDlg('Confirm Clear', cstrClearMsg, mtConfirmation, [mbYes, mbNo], 0) = mrYes then
425:
      begin
426:
427:
        // The remainder of the form initialization depends on the Data Entry type
428:
        case vdetDataEntryType of
429:
430:
          detFAV : begin
431:
                      // The answer was Yes so we clear all of the fields of the record for this
432:
                      for vbytTemp1 := 1 to gcbytMaxChannelFieldCount do
433:
                      begin
                        gvstrFAVChannelDataArray[vbytChannelNumber, vbytTemp1] := '';
434:
435:
                      end; // for vbytTemp1 := 1 to vbytChannelNumber do
436:
                       // and clear the Favourite button
437:
438:
                      case vbytChannelNumber of
439:
                        1 : frmMain.bbtFav01.Caption := '';
440:
                        2 : frmMain.bbtFav02.Caption := '';
                        3 : frmMain.bbtFav03.Caption := '';
441:
442:
                        4 : frmMain.bbtFav04.Caption := '';
443:
                        5 : frmMain.bbtFav05.Caption := '';
                        6 : frmMain.bbtFav06.Caption := '';
444:
445:
                        7 : frmMain.bbtFav07.Caption := '';
                        8 : frmMain.bbtFav08.Caption := '';
446:
447:
                        9 : frmMain.bbtFav09.Caption := '';
448:
                        10 : frmMain.bbtFav10.Caption := '';
449:
                        11 : frmMain.bbtFav11.Caption := '';
450:
                        12 : frmMain.bbtFav12.Caption := '';
451:
                      end; // case vbytChannelNumber of
452:
453:
                    end;
454:
455: //
             detVFO : VFOFormInit;
456:
             detUHFMEM : begin
457:
                           // The answer was Yes so we clear all of the fields of the record for this
      button
458:
                           for vbytTemp1 := 1 to gcbytMaxChannelFieldCount do
459:
                           begin
460:
                             gvstrUHFChannelDataArray[vbytChannelNumber, vbytTemp1] := '';
                           end;// for vbytTemp1 := 1 to vbytChannelNumber do
461:
462:
                         end:
463:
464:
             detVHFMEM : begin
465:
                           // The answer was Yes so we clear all of the fields of the record for this
      button
466:
                           for vbytTemp1 := 1 to gcbytMaxChannelFieldCount do
467:
                             gvstrVHFChannelDataArray[vbytChannelNumber, vbytTemp1] := '';
468:
                           end;// for vbytTemp1 := 1 to vbytChannelNumber do
469:
470:
                          end;
471:
472:
473:
       end;// case vdetDataEntryType of
474:
475:
         gvstrTMVDataChanged := True;
476:
477:
       end;// if MessageDlg('Confirm Clear'
```

```
478:
479: end;// procedure TfrmDataEntry.bbtClearClick
480:
481: //-----
482: procedure TfrmDataEntry.bbtResetClick(Sender: TObject);
483: begin
484:
485:
      // This routine resets the data entry form to the original data that was present when the
486:
     // for was first opened. It resets the form data fields to the "Original" data field
487: // variables.
488:
     if MessageDlg('Confirm Reset', cstrResetMsg, mtConfirmation, [mbYes, mbNo], 0) = mrYes then
489:
    begin
490:
       // The remainder of the form initialization depends on the Data Entry type
491:
       case vdetDataEntryType of
492:
493:
         detFAV: DataEntry FAV Init;
494: //
           detVFO : VFOFormInit;
495:
         detUHFMEM : DataEntry UHFMEM Init;
496:
         detVHFMEM : DataEntry VHFMEM Init;
497:
498:
      end;// case vdetDataEntryType
499:
500:
      end; // if MessageDlg('Confirm Reset',
501:
     ModalResult := mrNone;
502:
503:
504: end;// procedure TfrmDataEntry.bbtResetClick
505:
506: //-----
507: procedure TfrmDataEntry.bbtSaveClick(Sender: TObject);
508:
509: var
510: vstrTStr : string;
511:
512: begin
513:
      514:
      // First we validate Data elements
515:
516:
     517:
518:
      // RX Frequency
519: if rbtUHF.Checked then
520: begin
       if not ValidUHFFrequency(edtRXFrequency.Text) then
521:
522:
      begin
523:
         MessageDlg ('Invalid RX Frequency', cstrInvalidUHFFrequencyMsg, mterror, [mbOk], 0);
524:
        modalResult := mrNone;
525:
         edtTXFrequency.Text := '';
526:
         edtRXFrequency.SetFocus;
527:
         Exit;
528:
       end;
529:
      end
530:
      else
531: begin
532:
       if not ValidVHFFrequency(edtRXFrequency.Text) then
533:
       MessageDlg ('Invalid RX Frequency', cstrInvalidVHFFrequencyMsg, mterror, [mbOk], 0);
534:
535:
        modalResult := mrNone;
         edtTXFrequency.Text := '';
536:
         edtRXFrequency.SetFocus;
537:
```

```
Exit;
539:
     end;
540: end;
541:
542: // DTSS Code
543: if chkDTSS.Checked then
544: begin
545:
      if length (edtDTSSCode.Text) <> gcbytMaxDTSSCodeLength then
546:
     begin
547:
       ShowMessage(cstrInvalidDTSSCodeMsg);
       modalResult := mrNone;
548:
549:
       edtDTSSCode.SetFocus;
550:
       Exit;
551:
     end; // if length edtDTSSCode.Text <> gcbytMaxDTSSCodeLength
552: end;// if chkDTSS.Checked then
553:
554:
     // Channel Name
555: if length (edtChannelName.Text) < gcbytMinChannelNameLength then
556: begin
557:
     ShowMessage(cstrInvalidChannelNameMsg);
558:
     modalResult := mrNone;
559:
     edtChannelName.SetFocus;
560:
     Exit;
561:
    end;// if length (edtChannelName.Text) < gcbytMinChannelNameLength
562:
563:
     //-----
564:
     // Everything is valid so now we save the data in the appropriate array based on
565:
     // vdetDataEntryType.
     //-----
566:
567: case vdetDataEntryType of
568:
569:
     detFAV : DataEntry FAV Save;
570:
     detVFO : Begin
571:
572:
              end;
573:
574:
     detUHFMEM : DataEntry UHFMEM Save;
575:
      detVHFMEM : DataEntry_VHFMEM_Save;
576:
577: end;// case vdetDataEntryType
578:
579:
    gvstrTMVDataChanged := True;
580:
581: end;// procedure TfrmDataEntry.bbtSaveClick
584: // KEYPRESS ROUTINES
586: procedure TfrmDataEntry.edtRXFrequencyKeyPress(Sender: TObject; var Key: char);
587: begin
588:
589: case Key of
590:
591:
      #8 : Exit; // <BS>
592:
     #46 : if Length(edtRXFrequency.Text) = 3 then // <.>
593:
                 Exit
594:
                else
595:
                begin
596:
                 Key := #0;
597:
                 Exit;
```

```
end;// if Length(edtRXFrequency.Text) = 3
598:
599:
       #48..#57 : if (Length(edtRXFrequency.Text) < 3) or
                   (Length (edtRXFrequency.Text) > 3) then // <.>
600:
601:
                      Exit
602:
                else
603:
                begin
                  Key := #0;
604:
605:
                  Exit;
606:
                end; // if Length (edtRXFrequency.Text) < 3
607: else
608:
     Key := #0;
609: end; // case Key of
610:
611: end;// procedure TfrmDataEntry.edtRXFrequencyKeyPress
613: //-----
614: procedure TfrmDataEntry.edtDTSSCodeKeyPress(Sender: TObject; var Key: char);
615: begin
616:
617: case Key of
618:
      #8 : Exit; // <BS>
      #48..#57 : Exit;
619:
620: else
621: Key := \#0;
622: end; // case Key of
623:
624: end;// procedure TfrmDataEntry.edtDTSSKeyPress
625:
626: //-----
627: procedure TfrmDataEntry.edtChannelNameKeyPress(Sender: TObject; var Key: char);
628: begin
629:
630: case Key of
     #8 : Exit; // <BS>
631:
      #32 : Exit; // <Sp>
632:
      #48..#57 : Exit; // <0>..<9>
633:
634:
      #65..#90 : Exit; // <A..Z>
      #97..#122 : Exit; // <a..z>
635:
636: else
637:
     Key := \#0;
638: end; // case Key of
639:
640: end;// procedure TfrmDataEntry.edtChannelNameKeyPress
641:
642: //-----
643: procedure TfrmDataEntry.edtCommentsKeyPress(Sender: TObject; var Key: char);
644: begin
645:
646: case Key of
647:
      #8 : Exit; // <BS>
      #32 : Exit; // <Sp>
648:
      #48..#57 : Exit; // <0>..<9>
649:
      #65..#90 : Exit; // <A..Z>
650:
651:
      #97..#122 : Exit; // <a..z>
652: else
     Key := \#0;
653:
654: end; // case Key of
655:
656: end;// procedure TfrmDataEntry.edtCommentsKeyPress
657:
```

```
ON CHANGE ROUTINES
661: procedure TfrmDataEntry.rbtVHFChange(Sender: TObject);
662: begin
663:
   SetShiftOffset;
664: end;//procedure TfrmDataEntry.rbtVHFChange(
665:
666: //-----
667: procedure TfrmDataEntry.rbtSimplexChange(Sender: TObject);
668: begin
669: SetShiftOffset;
670: end;// procedure TfrmDataEntry.rbtSimplexChange
671:
672: //-----
673: procedure TfrmDataEntry.rbtPlusChange(Sender: TObject);
674: begin
675: SetShiftOffset;
676: end;// procedure TfrmDataEntry.rbtPlusChange
678: //-----
679: procedure TfrmDataEntry.rbtMinusChange(Sender: TObject);
680: begin
681: SetShiftOffset;
682: end;// rocedure TfrmDataEntry.rbtMinusChange
683:
684: //-----
685: procedure TfrmDataEntry.rbtNoTonesChange(Sender: TObject);
686: begin
687: SetToneFreq;
688: end;// procedure TfrmDataEntry.rbtNoTonesChange
690: //-----
691: procedure TfrmDataEntry.chkDTSSChange(Sender: TObject);
692: begin
693:
694: if chkDTSS.Checked then
695: begin
696:
    edtDTSSCode.Enabled := True;
697:
    edtDTSSCode.Color := clWhite;
    edtDTSSCode.Text := gvstrFAVChannelDataArray[frmDataEntry.vbytChannelNumber,
698:
699:
      gcbytDTSSCodeField];
700:
     edtDTSSCode.SetFocus;
701: end
702: else
703: begin
704: edtDTSSCode.Enabled := False;
705:
     edtDTSSCode.Color := clYellow;
706:
    edtDTSSCode.Text := '';
707: end;// if chkDTSS.Checked
708:
709: end;// procedure TfrmDataEntry.chkDTSSChange
710:
ON EXIT ROUTINES
714: procedure TfrmDataEntry.edtRXFrequencyExit(Sender: TObject);
715: begin
716:
717: if rbtVHF.Checked then
```

```
719: if not ValidVHFFrequency(edtRXFrequency.Text) then
720:
721: end
722: else
723: begin
724: if not ValidUHFFrequency(edtRXFrequency.Text) then
725:
     Exit;
726: end;// if rbtVHF.Checked
727:
728: edtTXFrequency.Text := CalculateTXFrequency;
729:
730: end;// procedure TfrmDataEntry.edtRXFrequencyExit
731:
733: end.// unit DataEntry;
734:
```

begin