CRJ Flightplan Format

The CRJ uses a standard Windows Ini-File to store flightplans in. It contains three sections: "CoRte", "PerfData" and "VNAVData".

Flightplans are stored in the user's "Documents" folder under "Aerosoft\Digital Aviation CRJ\Flightplans". The default filename extension is ".flp"

CoRte Section

ArptDep	Departure Airport (4-Letter ICAO Code; "EDDP")
RwyDep	Departure Runway Identifer ("EDDP26L")
ArptArr	Arrival Airport (4-Letter ICAO Code; "LOWS")
RwyArpt	Arrival Runway Identifier ("LOWS15")
ArptAltn	Alternate Airport (4-Letter ICAO Code; "EDDM")
SID	Departure Route Identifer ("GOLA1S")
SIDEnrTrans	Departure Route to Enroute Transition (optional)
STAR	Arrival Route Identifier ("BADI1R")
EnrSTARTrans	Enroute to Arrival Route Identifier (optional)
STARApprTrans	Arrival Route to Approach Transition Transition Identifier (optional)
Appr_Trans	Approach Transition Identifier ("SBG")
RwyArr_Final	Approach Identifier ("I15")
CoRoute	Company Route Identifier (optional)
FltNo	Flight Number ("EWG123")

This is followed by the legs of the route. These can be either airways or directs. They are numbered sequentially starting with 1

Airway1=T202	Airway for first leg
Airway1From=GOLAT	First waypoint on the airway
Airway1To=ALOSO	Last waypoint on the airway
Airway2=T703	Airway for second leg
Airway2From=ALOSO	First waypoint on the airway
Airway2To=ABERU	Last waypoint on the airway
DctWpt3=DOSEL	The third leg leads directly to DOSEL
DctWpt3Coordinates=48.438610,12.480830	Coordinates of DOSEL
Airway4=UL605	Airway for fourth leg
Airway4From=DOSEL	First waypoint on the airway
Airway4To=BIBAG	Last waypoint on the runway

PerfData Section

The PerfData section will only be used if "Load PERF INIT Data with Flightplan" is enabled on the Options page in CRJ Manager. Otherwise it will be ignored when the route is loaded.

All values except the wind data default to -1 if not set. In this case, the FMS defaults will be loaded.

CrzAlt	Cruise Altitude (in feet)
CrzAltAltn	Cruise Altitude to Alternate Airport (in feet)
PaxCnt	Passenger count
PaxWeight	Average Passenger weight (lbs)
CargoWeight	Cargo weight (lbs)
FuelWeight	Fuel weight (lbs)
WindDirClb	Wind direction during climb (0-359 degrees)
WindSpdClb	Wind speed during climb
WindDirCrz	Wind direction during cruise (0-359 degrees)
WindSpdCrz	Wind speed during cruise
WindDirDes	Wind direction during descent (0-359 degrees)
WindSpdDes	Wind speed during descent
ISADev	Deviation from ISA temperature (degrees Celsius)
ResFuel	Reserve fuel weight (lbs)
TaxiFuel	Taxi fuel weight (lbs)

VNAVData Section

The VNAVData section contains the transition altitude and level. Both are in feet. They can be loaded with the flight plan and will be used instead of the FMS default settings.

TransAlt	Transition altitude (in feet; "6000")
TransLvl	Transition level (in feet!; "7000")

Demo Code

How to get the correct path and filename:

```
char *GetCoRouteFileName(char *fname)
{
      static char path[MAX_PATH] = "";
      HRESULT res = SHGetFolderPathA(NULL, CSIDL_PERSONAL, NULL, SHGFP_TYPE_CURRENT,
path);
      if (res == S_OK)
      {
            strcat(path, "\\Aerosoft\\Digital Aviation CRJ\\FlightPlans\\");
            strcat(path, fname);
      }
      return path;
}
```

Demo Flightplan File

```
[CoRte]
ArptDep=EDDL
RwyDep=EDDL23L
ArptArr=EDDM
RwyArr=EDDM08L
ArptAltn=
SID=DODE8T
SIDEnrTrans=
STAR=ANOR3A
EnrSTARTrans=
STARApprTrans=
APPR_Trans=VECTORS
RwyArrFINAL=I08L
CoRoute=
FltNo=
Airway1=Y853
Airway1FROM=DODEN
Airway1TO=BOMBI
Airway2=T104
Airway2FROM=BOMBI
Airway2TO=LEVBU
[PerfData]
CrzAlt=27000
CrzAltAltn=-1
PaxCnt=56
PaxWeight=185
CargoWeight=1089
FuelWeight=7408
WindDirClb=0
WindSpdClb=0
WindDirCrz=0
WindSpdCrz=0
WindDirDes=0
WindSpdDes=0
ISADev=0
ResFuel=1650
TaxiFuel=0
[VNAVData]
TransAlt=18000
TransLvl=18000
```