



## DataLinks - FCC Master Frequency Database File Structure by PerCon

| Category   | Type | Size | Description                              | Indexed | Units / Format |
|------------|------|------|------------------------------------------|---------|----------------|
| frequency  | N    | 17   | Frequency (lower)                        | *       | Mhz            |
| freq_high  | N    | 17   | Upper Frequency                          |         | Mhz            |
| callsign   | C    | 10   | Callsign                                 | *       |                |
| radio_serv | C    | 2    | Radio Service Code                       | *       |                |
| dba_name   | C    | 40   | DBA Name                                 | *       |                |
| attention  | C    | 30   | Attention Name                           |         |                |
| contact    | C    | 30   | Contact Name                             |         |                |
| licensee   | C    | 50   | Licensee Name                            | *       |                |
| lic_addr   | C    | 35   | Licensee Address                         |         |                |
| lic_city   | C    | 20   | Licensee City                            | *       |                |
| lic_state  | C    | 2    | Licensee State                           | *       |                |
| lic_zip    | C    | 9    | Licensee Zip                             | *       |                |
| po_box     | C    | 6    | PO Box                                   |         |                |
| xmit_addr  | C    | 40   | Transmitter Address                      |         |                |
| xmit_city  | C    | 20   | Transmitter City                         | *       |                |
| xmit_state | C    | 2    | Transmitter State                        | *       |                |
| xmit_count | C    | 20   | Transmitter County                       | *       |                |
| xmit_latd  | C    | 1    | Transmitter Latitude Direction           |         | N/S            |
| xmit_lond  | C    | 1    | Transmitter Longitude Direction          |         | E/W            |
| xmit_lat   | C    | 6    | Transmitter Latitude                     | *       | DDMMSS         |
| xmit_long  | C    | 7    | Transmitter Longitude                    | *       | ODDMMSS        |
| xmit_eleve | C    | 6    | Transmitter Elevation                    |         | Meters         |
| xmit_hght  | C    | 6    | Transmitter Height                       |         | Meters         |
| xmit_haat  | C    | 6    | Transmitter Height Above Average Terrain |         | Meters         |
| xmit_eff   | C    | 6    | Transmitter Effective Height             |         | Meters         |
| xmit_struh | C    | 6    | Transmitter Structure Height             |         | Meters         |
| class_stat | C    | 4    | Class of Station Code                    | *       |                |
| area_oper  | C    | 1    | Area of Operation                        |         |                |
| radius_op  | C    | 4    | Radius of Operation                      |         | KM             |
| ant_type   | C    | 10   | Antenna Type                             |         |                |
| elev_angle | C    | 8    | Elevation Angle                          |         | Degrees        |
| line_loss  | C    | 8    | Line Loss                                |         | dB             |
| azimuth    | C    | 6    | Azimuth                                  |         | Degrees        |
| polariztn  | C    | 1    | Polarization                             |         | VHRLS          |
| gain       | C    | 4    | Gain                                     |         | dBi            |
| path_len   | C    | 6    | Path Length                              |         | KM             |
| beam_width | C    | 4    | Beam Width                               |         | Degrees        |
| erp        | C    | 9    | ERP                                      |         | Watts          |
| power_out  | C    | 9    | Power Out                                |         | Watts          |
| tolerance  | C    | 9    | Tolerance                                |         | %              |
| emissions  | C    | 32   | Emissions                                |         |                |
| type_lc    | C    | 1    | Type of License                          |         | YYYYMMDD       |
| date_lc    | C    | 8    | Date of License                          |         | YYYYMMDD       |
| issue_date | C    | 8    | License Issue Date                       | *       | YYYYMMDD       |
| expir_date | C    | 8    | License Expiration Date                  | *       |                |
| oper_begin | C    | 4    | Operation Begin Time                     |         |                |
| oper_end   | C    | 4    | Operation End Time                       |         |                |
| nr_mob_veh | N    | 4    | Number of Vehicle Units                  |         |                |
| nr_mob_prt | N    | 4    | Number of Portable Units                 |         |                |
| nr_mob_air | N    | 4    | Number of Aircraft Units                 |         |                |
| nr_mob_mar | N    | 4    | Number of Marine Units                   |         |                |
| nr_mob_pag | N    | 4    | Number of Pager Units                    |         |                |
| nr_units   | N    | 4    | Number of Units                          |         |                |
| nr_trunked | N    | 4    | Number of Trunked Units                  |         |                |
| type_appl  | C    | 1    | Type of Application                      |         |                |
| db_id      | C    | 1    | Database ID                              |         |                |
| cp_auth    | C    | 2    | Control Point                            |         |                |
| auth_type  | C    | 1    | Authorization Type                       |         |                |
| appl_phone | C    | 13   | Applicant Phone Number                   | *       |                |
| cntr_phone | C    | 13   | Control Point Phone Number               |         |                |
| metric_ind | C    | 1    | Metric Indicator                         |         |                |
| file_num   | C    | 1    | File Number                              | *       |                |

|            |        |    |                                                                                                                                                                                                                                                                                                                        |  |            |
|------------|--------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|
| faa_id     | C      | 15 | FAA ID Number                                                                                                                                                                                                                                                                                                          |  |            |
| tower_id   | C      | 7  | Tower ID Number                                                                                                                                                                                                                                                                                                        |  |            |
| frn        | C      | 10 | FCC Registration Number                                                                                                                                                                                                                                                                                                |  |            |
| receiver   | M      | 10 | Receiver Information:                                                                                                                                                                                                                                                                                                  |  |            |
|            |        |    | Callsign,<br>Segment Length, Segment, Site Name, City, County, State,<br>Addr, Ground Elev, Struct. Hght, Area Of Op, Radius Of Op,<br>Tower Reg, Height TOC, Antenna Make, Antenna Model,<br>Tilt, Line Loss, Azimuth, Gain, Polarization, Beamwidth,<br>Latitude, Longitude, Lat Dir, LongDir, Rlatitude, Rlongitude |  |            |
| control    | M      | 10 | Control Point Information                                                                                                                                                                                                                                                                                              |  |            |
| smr        | M      | 10 | SMR Information                                                                                                                                                                                                                                                                                                        |  |            |
| assc_calls | M      | 10 | Associated Callsigns                                                                                                                                                                                                                                                                                                   |  |            |
| rcv_calls  | M      | 10 | Receiver Callsigns                                                                                                                                                                                                                                                                                                     |  |            |
| pl_specs   | M      | 10 | Paint & Lighting Specifications                                                                                                                                                                                                                                                                                        |  |            |
| spec_cond  | M      | 10 | Special Operating Conditions                                                                                                                                                                                                                                                                                           |  |            |
| ao_desc    | M      | 10 | Area of Operation Description                                                                                                                                                                                                                                                                                          |  |            |
| xmit_make  | C      | 25 | Transmitter Make                                                                                                                                                                                                                                                                                                       |  |            |
| xmit_model | C      | 25 | Transmitter Model                                                                                                                                                                                                                                                                                                      |  |            |
| dbcode     | C      | 1  | Intername Database Identifier                                                                                                                                                                                                                                                                                          |  |            |
| distacen   | N      | 9  | Distance - Calculated                                                                                                                                                                                                                                                                                                  |  |            |
| Latitude   | N      | 9  | Decimal Latitude                                                                                                                                                                                                                                                                                                       |  | +99.99999  |
| Longitude  | N      | 10 | Decimal Longitude                                                                                                                                                                                                                                                                                                      |  | +999.99999 |
| CPLat      | C      | 6  | Radius Serach Center Point Latitude                                                                                                                                                                                                                                                                                    |  | 999999     |
| CPLong     | C      | 7  | Radius Serach Center Point Longitude                                                                                                                                                                                                                                                                                   |  | 9999999    |
| SN         | String |    | Calculated Unisys_id,Location Number,Antenna Number , Freq_num, Path_num                                                                                                                                                                                                                                               |  |            |
| XML        | String |    | Calclated Eligibility, ULS_file_num, Email, Fax, Eligibilty Activity,                                                                                                                                                                                                                                                  |  |            |
|            |        |    | Location Number, Location Name, Location Structure                                                                                                                                                                                                                                                                     |  |            |

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