

TRX Record Formats

The TRX records are illustrated below. It has the following three rows:

1. TRACK_TIME: This is the timestamp for which the flight data is presented.

2. TRACK: This row has the flight parameters in the following format:

(callsign, aircraft type, latitude x 10⁴, longitude x 10⁴, airspeed, altitude level, heading , ARTCC , ARTCCSector)

Note: The heading is in degree, airspeed in knots, the altitude level is in feet (Eg. 350 for 35,000ft. The latitude and longitude should be positive values, NATS intrinsically calculates the polarity. *For flights on ground at the departure airport, the altitude level needs to be 0.*

3. FP_ROUTE: This is the flight plan, with the departure and arrival airports in green, SID/STAR procedures in yellow, approach procedure in pink, departure and arrival runways in grey, and the enroute waypoints in red. In addition to this, for the NATS augmented flight plan, the departure taxi procedure is in blue, and the arrival taxi procedure is in orange.

FAA SWIM TRX Record:

TRACK_TIME 1121238067

TRACK ULI-3AFSD3DC24 B733 373638 1222286 130 0 28 ZOA ZOA46

FP_ROUTE KSFO.SSTIK3.LOSHN..BOILE..BLH.ARLIN4.I25L.RW25L.KPHX

NATS Augmented TRX Record:

TRACK_TIME 1121238067

TRACK ULI-3AFSD3DC24 B733 373638 1222286 130 0 28 ZOA ZOA46

FP_ROUTE KSFO.<{"id": "Gate_A_006"}, {"id": "Ramp_01_001"}, {"id": "Ramp_01_002"}, {"id": "Ramp_01_003"}, {"id": "Ramp_01_004"}, {"id": "Ramp_01_005"}, {"id": "Ramp_01_006"}, {"id": "Ramp_01_007"}, {"id": "Txy_M_H"}, {"id": "Txy_M_001"}, {"id": "Txy_A_M"}, {"id": "Txy_A_003"}, {"id": "Txy_A_002"}, {"id": "Txy_A_A1"}, {"id": "Txy_A_001"}, {"id": "Rwy_02_001"}, {"id": "Rwy_02_002"}>.RW01R.SSTIK3.LOSHN..BOILE..BLH.ARLIN4.I25L.RW25L.<{"id": "Rwy_03_001"}, {"id": "Txy_G3_001"}, {"id": "Txy_F_001"}, {"id": "Txy_F_002"}, {"id": "Txy_F_003"}, {"id": "Txy_F_004"}, {"id": "Txy_F_005"}, {"id": "Txy_F_006"}, {"id": "Txy_F_007"}, {"id": "Txy_F_008"}, {"id": "Txy_F_009"}, {"id": "Txy_F_010"}, {"id": "Txy_F_011"}, {"id": "Txy_F_012"}, {"id": "Txy_F_013"}, {"id": "Txy_F13_001"}, {"id": "Rwy_02_018"}, {"id": "Txy_E13_001"}, {"id": "Txy_R_006"}, {"id": "Txy_R_007"}, {"id": "Txy_R_005"}, {"id": "Txy_R_004"}, {"id": "Txy_R_003"}, {"id": "Txy_R_002"}, {"id": "Ramp_11_002"}, {"id": "Parking_11_001"}>.KPHX