

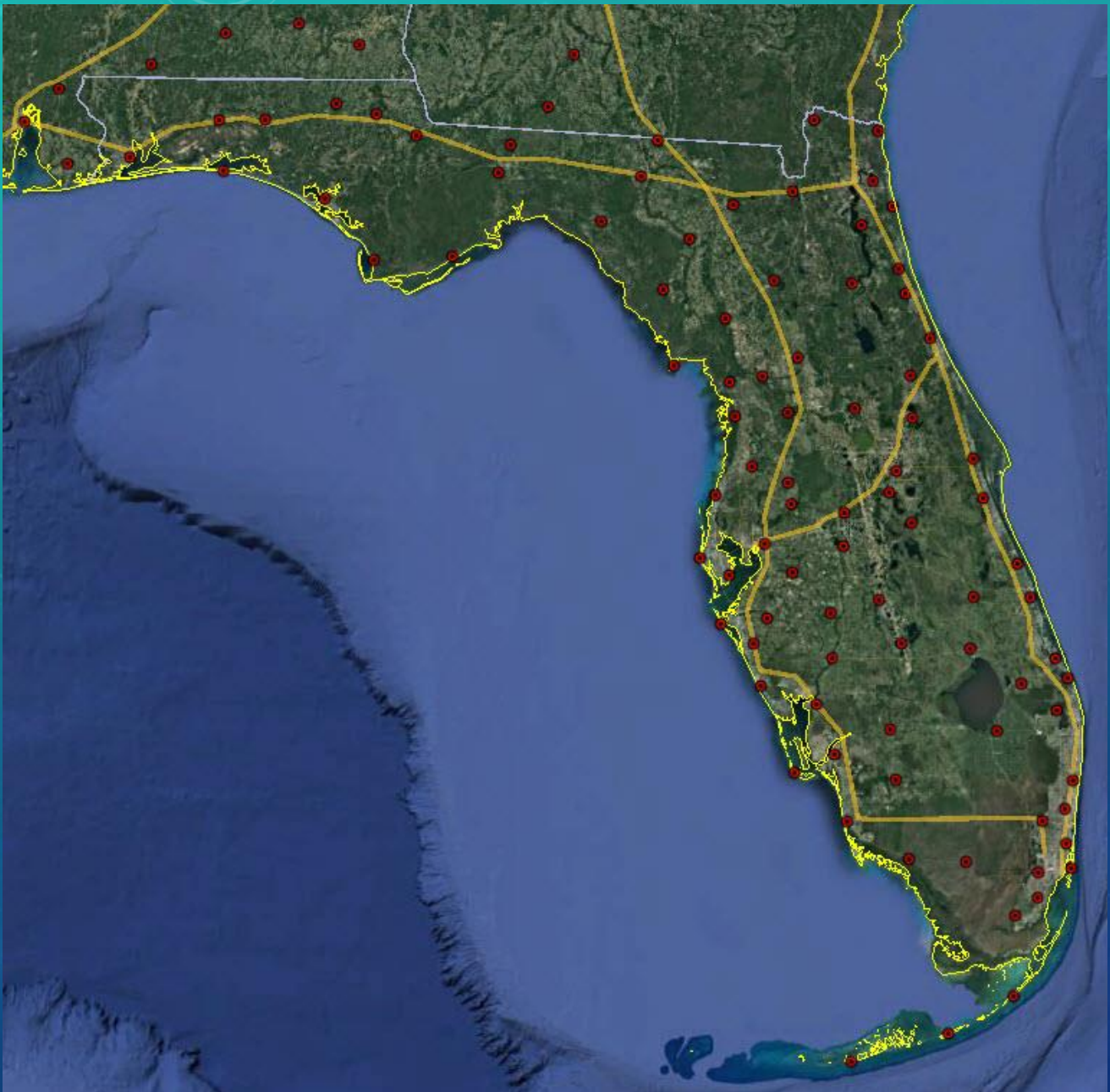


GUIDE TO USING THE FPRN

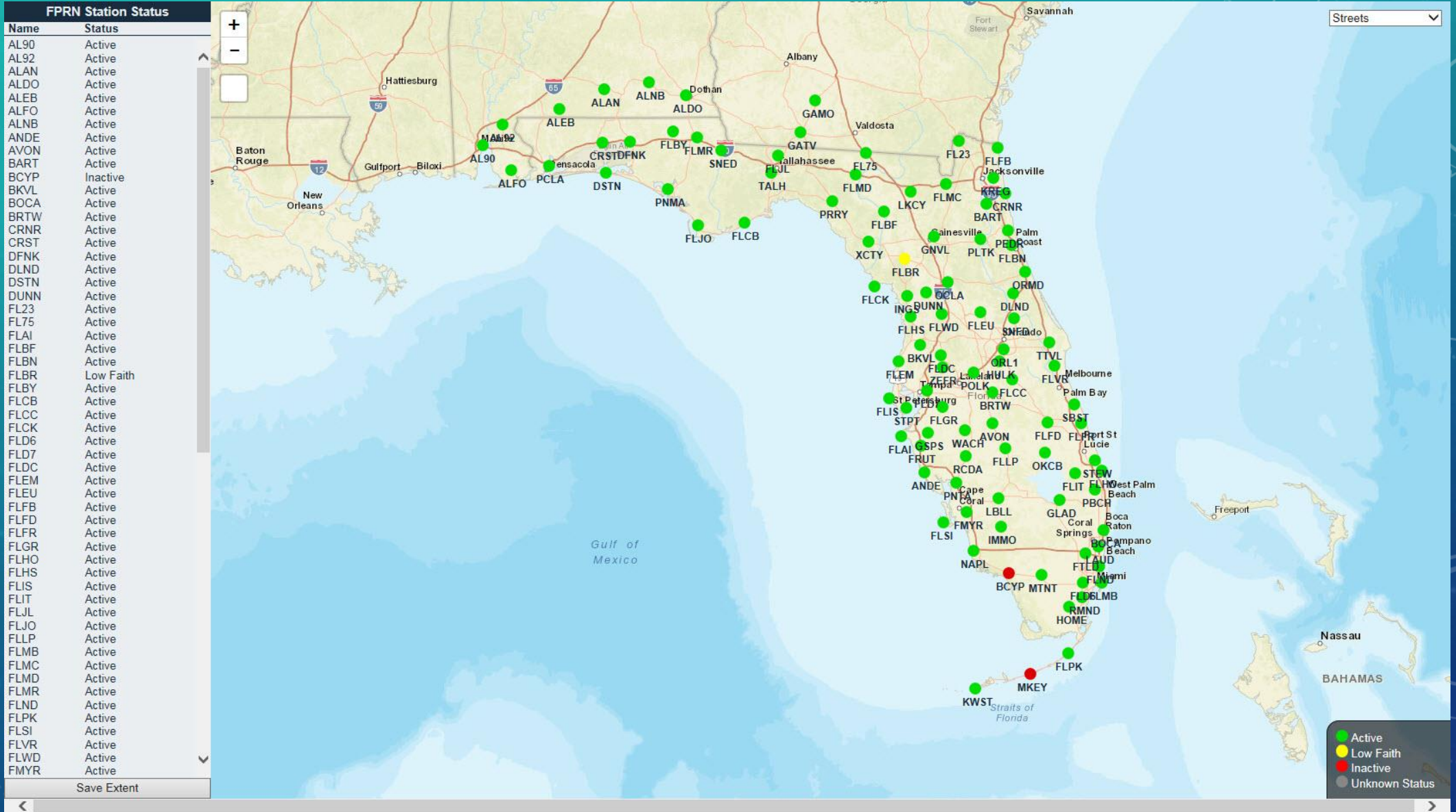
Speaker:
Ron Hanson, PSM
FPRN Manager

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DYNAMIC MAP



PRODUCTS

Real-Time

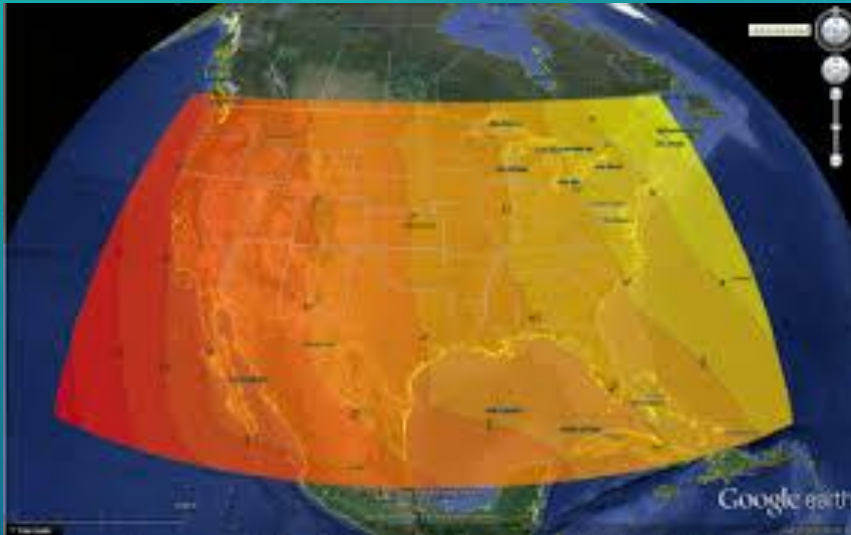
- Real-Time Corrections
 - Single Baseline
- Network Real-Time Corrections
 - Flächen-Korrektur-Parameter (FKP)
 - Master Auxiliary Concept (MAX) (iMAX)
 - Virtual Reference Station (VRS)

Static

- Computation Service
 - Similar to OPUS
- RINEX Downloads
 - Recurring Jobs
 - Virtual Rinex

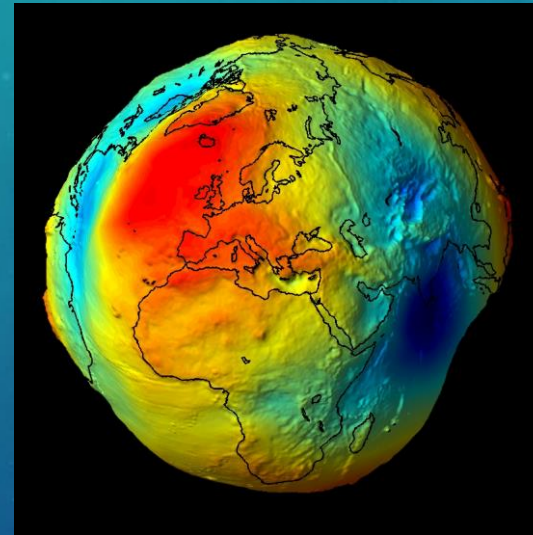
DATUMS & GEOIDS

Datum



NAD 83 (2011)

Geoid

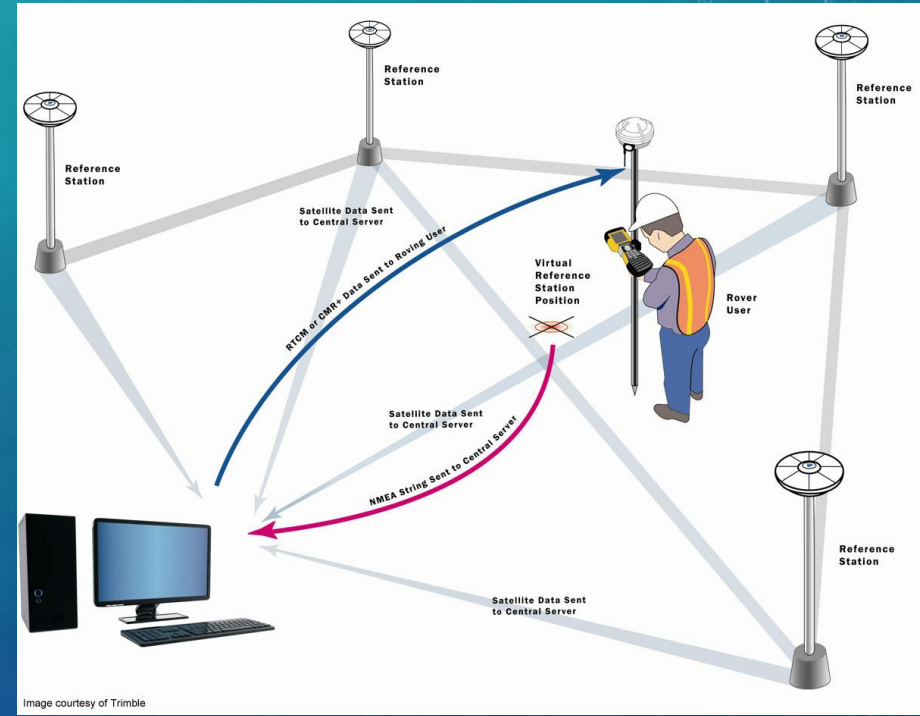


Geoid 12 (A&B)

FPRN



SINGLE BASELINE VERSUS NETWORK SOLUTION



SINGLE BASELINE PORTS

NTRIP Protocol

LANGUAGE	DISTRICT	PORT
RTCM-3 MSM4	NEAREST	10000
	STATE-WIDE	40000
	DISTRICT 1	40100
	DISTRICT 2	40200
	DISTRICT 3	40300
	DISTRICT 4	40400
	DISTRICT 5	40500
	DISTRICT 6	40600
DISTRICT 7	40700	
RTCM-3 MSM5	NEAREST	10000
	STATE-WIDE	50000
	DISTRICT 1	50100
	DISTRICT 2	50200
	DISTRICT 3	50300
	DISTRICT 4	50400
	DISTRICT 5	50500
	DISTRICT 6	50600
DISTRICT 7	50700	
RTCM 3.1	NEAREST	10000
	STATE-WIDE	31000
	DISTRICT 1	31100
	DISTRICT 2	31200
	DISTRICT 3	31300
	DISTRICT 4	31400
	DISTRICT 5	31500
	DISTRICT 6	31600
DISTRICT 7	31700	
RTCM 2.3	NEAREST	10000
	STATE-WIDE	23000
	DISTRICT 1	23100
	DISTRICT 2	23200
	DISTRICT 3	23300
	DISTRICT 4	23400
	DISTRICT 5	23500
	DISTRICT 6	23600
DISTRICT 7	23700	
CMR PLUS	NEAREST	10000
	STATE-WIDE	25000
	DISTRICT 1	25100
	DISTRICT 2	25200
	DISTRICT 3	25300
	DISTRICT 4	25400
	DISTRICT 5	25500
	DISTRICT 6	25600
DISTRICT 7	25700	

NETWORK SOLUTIONS

NTRIP Protocol

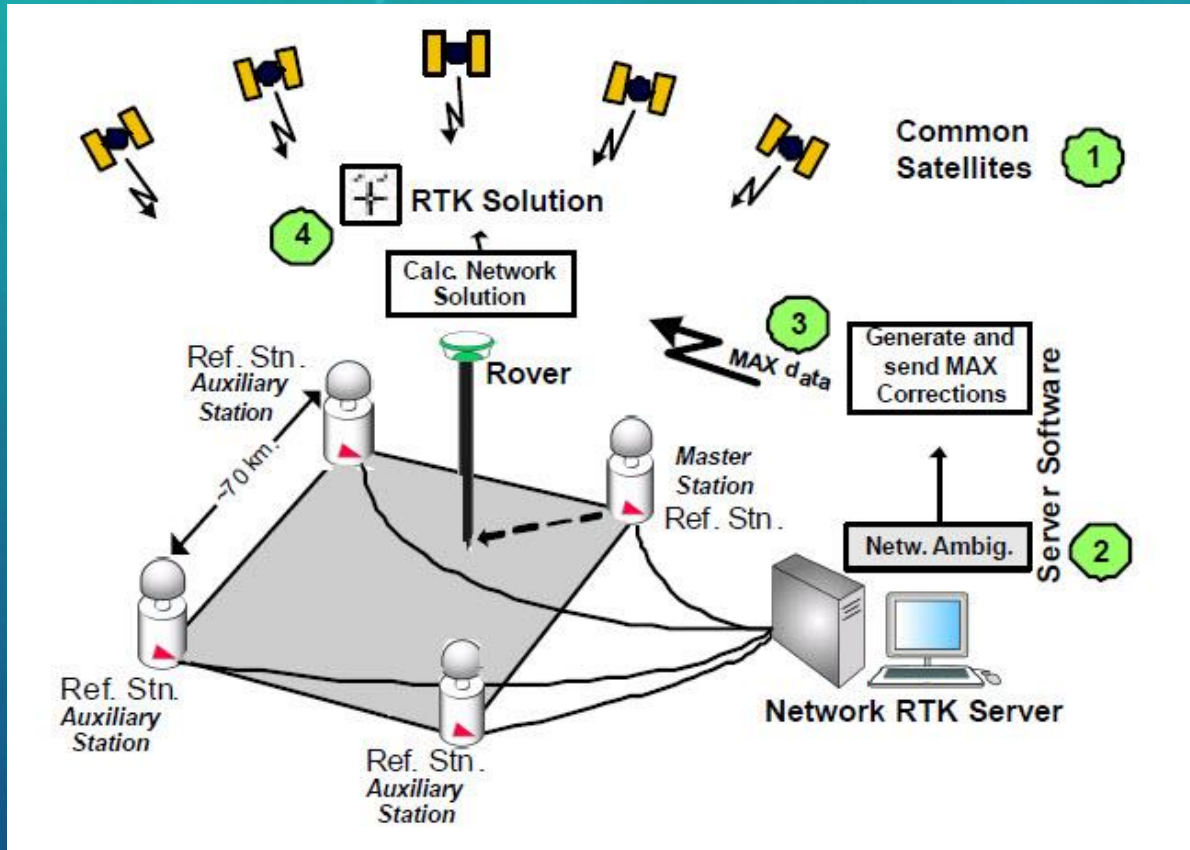
PORT 10000

NETWORK SOLUTION TYPE	MOUNTPPOINT / DATA SOURCE
MAX	RTCM3_MAX
VRS	MSM4_VRS
	MSM5_VRS
	RTCM3_VRS
	RTCM2_VRS
	CMRP_VRS
iMAX	MSM4_IMAX
	MSM5_IMAX
	RTCM3_IMAX
	RTCM2_IMAX
	CMRP_IMAX

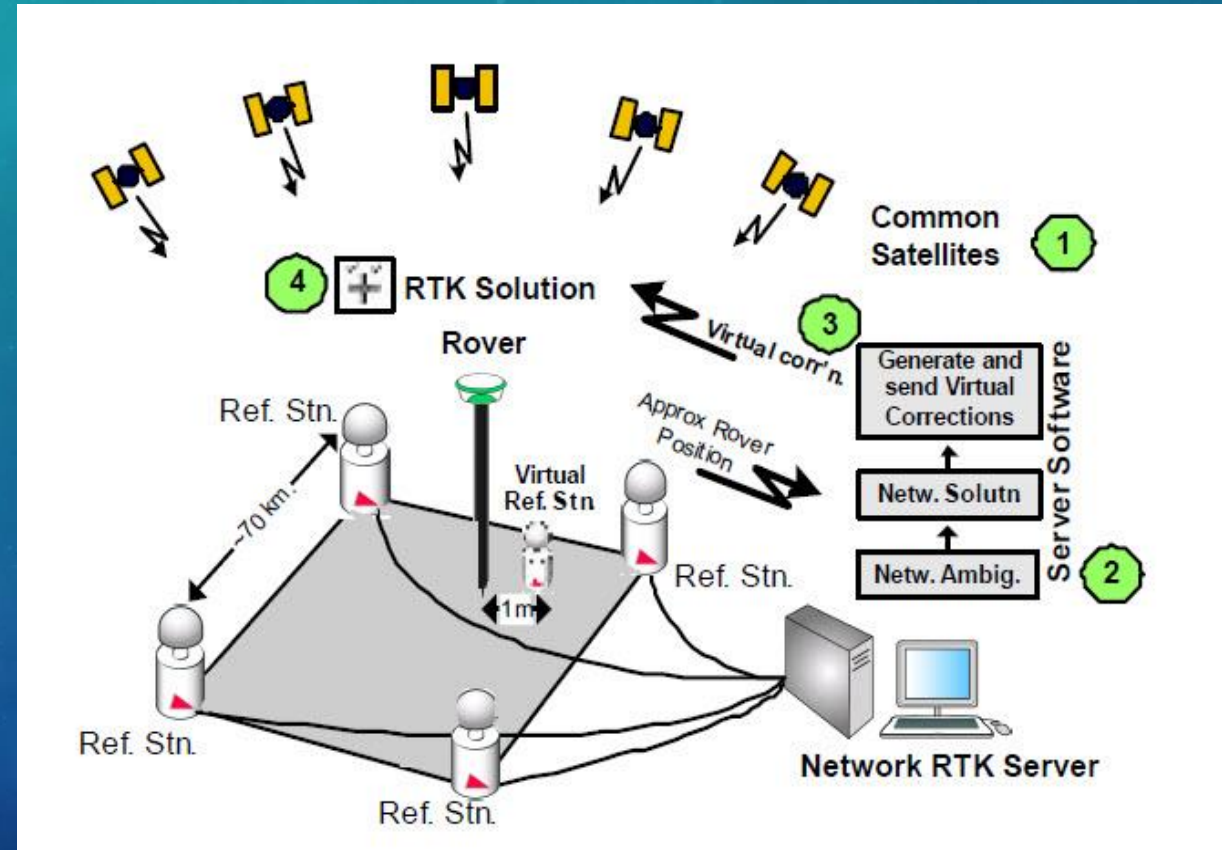
LANGUAGE	PORT	MOUNTPPOINT / DATA SOURCE
RTCM-3 MSM4	10000	MSM4_NEAR
RTCM-3 MSM5	10000	MSM5_NEAR
RTCM-3.1	10000	RTCM3_NEAR
RTCM-2.3	10000	RTCM2_NEAR
CMR PLUS	10000	CMRP_NEAR

NETWORK SOLUTIONS

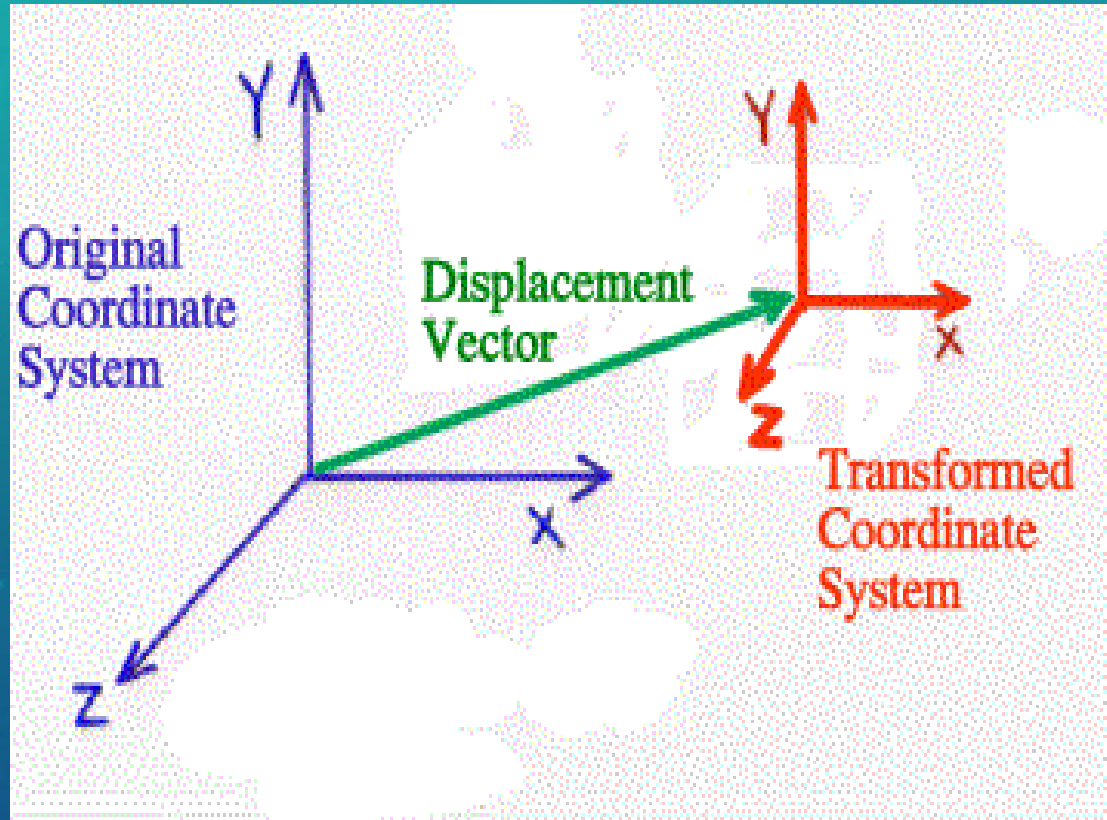
MAX



VRS



LOCALIZATION



FPRN WEB PAGE

<https://www.fdot.gov/geospatial/fprn.shtm>

COMMON MISTAKES

- Bad User Name or Password
- NMEA / GPGGA message not turned on
 - Bad position for NMEA / GPGGA
- Concurrent Connection
- Not Localizing

QUESTIONS?