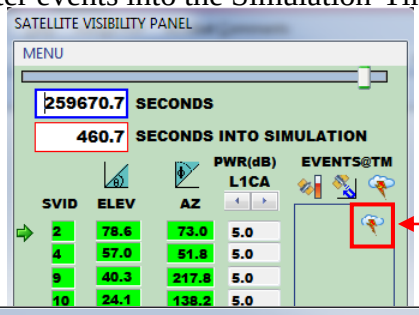
RAIM SETUP AND CONTROL

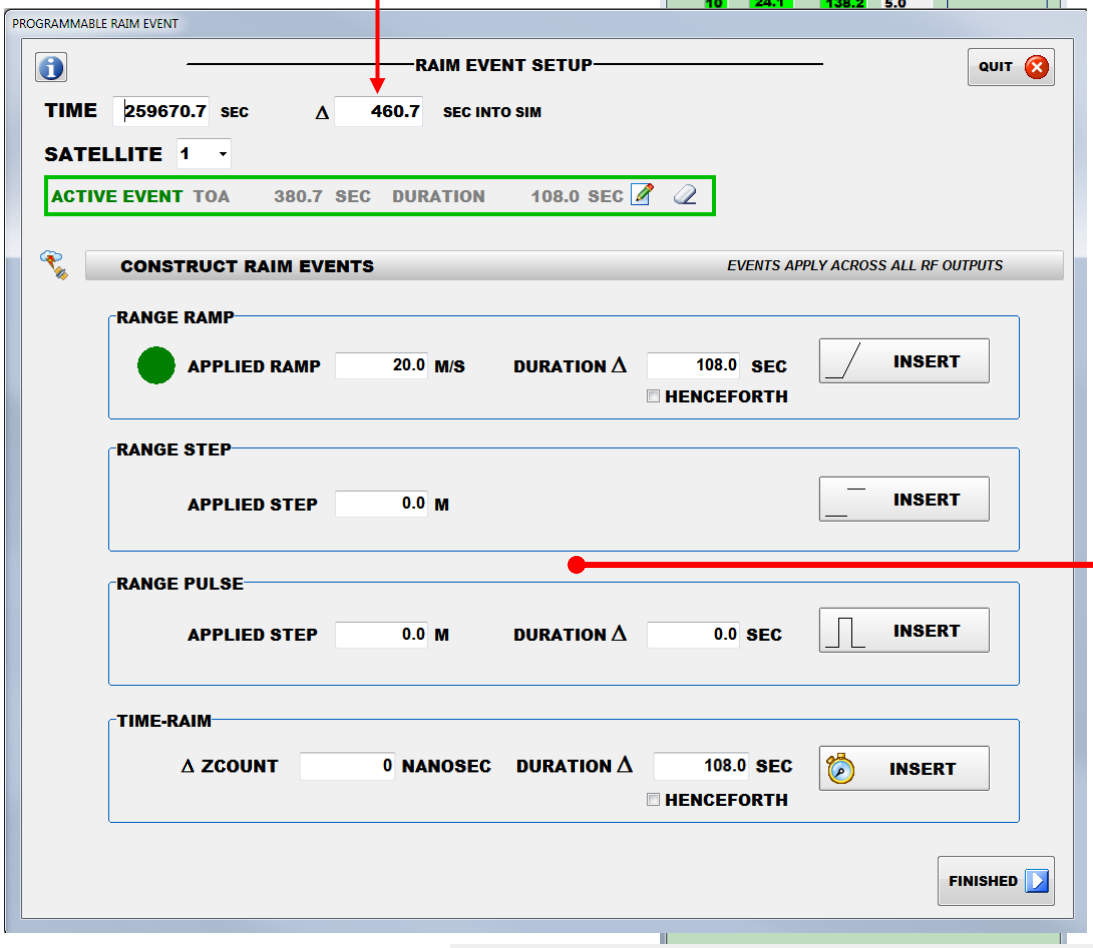
Tapestry provides the capability of generation of a class of Ranging Errors suitable to test the Receiver Autonomous Integrity Monitoring implementation within the UE.

Using the form shown, you may enter events into the Simulation-Time-Line or edit the ASCII Schedule file directly.



EVENT EPOCH [TIME INTO SIMULATION]

ICON denotes RAIM active for this SVID



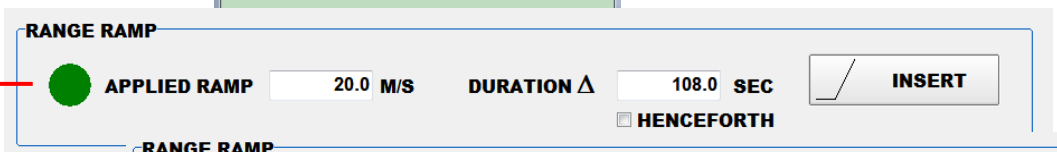
RAMP: RATE + APPLIED RAMP
RANGE = INTEGRAL OF RAMP
DURATION SPECIFIED

STEP: RANGE + STEP
RATE NO EFFECT

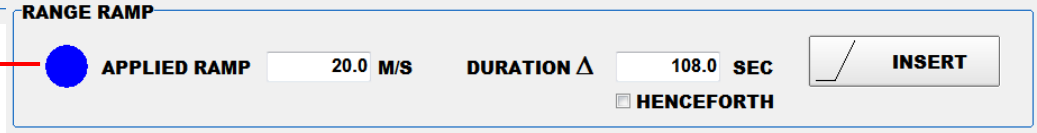
PULSE: [STEP] THAT TERMINATES
DURATION SPECIFIED

TRAIM: [TIME STEP] THAT TERMINATES
DURATION SPECIFIED

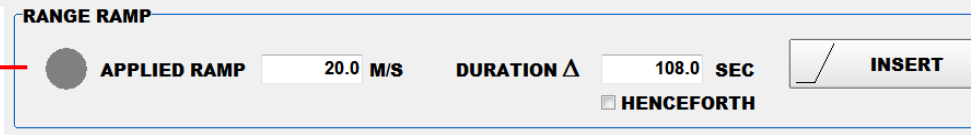
MARKER WILL BE GREEN IF THE EVENT IS ACTIVELY AFFECTING SVID OUTPUT



MARKER WILL BE BLUE IF AN EVENT FOR THIS SVID IS UPCOMMING

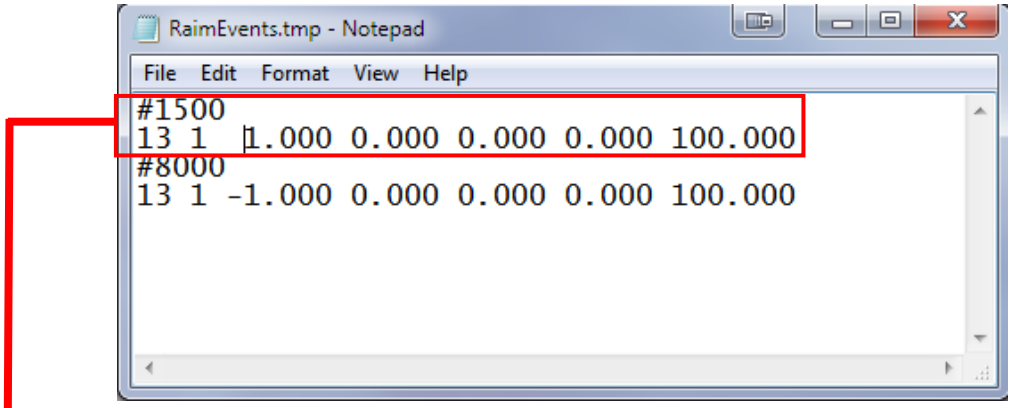


MARKER WILL BE GRAY IF AN EVENT FOR THIS SVID IS PAST THE ACTIVE SEGMENT

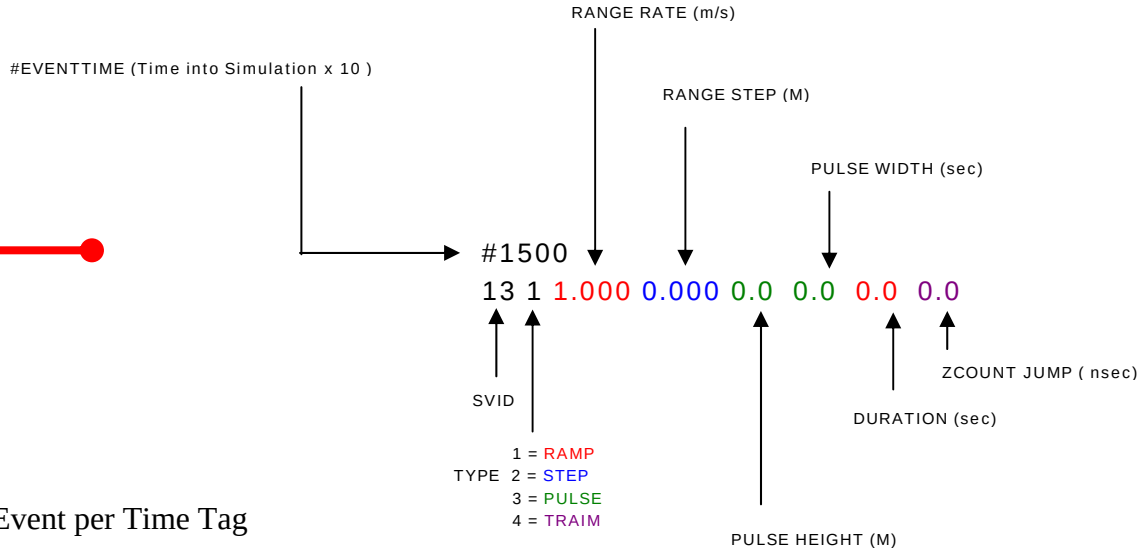


NOTE: THIS FILE IS CREATED ON THE USERS BEHALF WHEN THE INSERT BUTTONS ARE PRESSED. YOU SHOULD NOT NEED TO EDIT THIS FILE.

RAIM EVENT FILE FORMAT



RAIMEVENTS.SCN



Restrictions

- Only One Event per Time Tag
- Multiple events at the same time each must have their own #EVENTTIME record

  for example: Event at 20.6 seconds for SVID 5 RAMP EVENT and also at 20.6 Seconds SVID 21 STEP EVENT

```
#206
5 1 -2.3 0.0 0.0 0.0 0.0 100.5 0.0
#206
21 2 0.0 6.5 0.0 0.0 0.0 0.0 0.0
```

- All five (5) values must be present even if not applicable.

  For **RAMP**: Enter the **RED** Range RAMP in m/s and Duration in seconds
  For **STEP**: Enter the **BLUE** Range Step in meters. Event has infinite duration
  For **PULSE**: Enter the **GREEN** Range Height in meters and Width in seconds.
  For **TRAIM**: Enter the PURPLE Zcount jump in nanoseconds.