3.3.7 Calculating the iRSS by hand

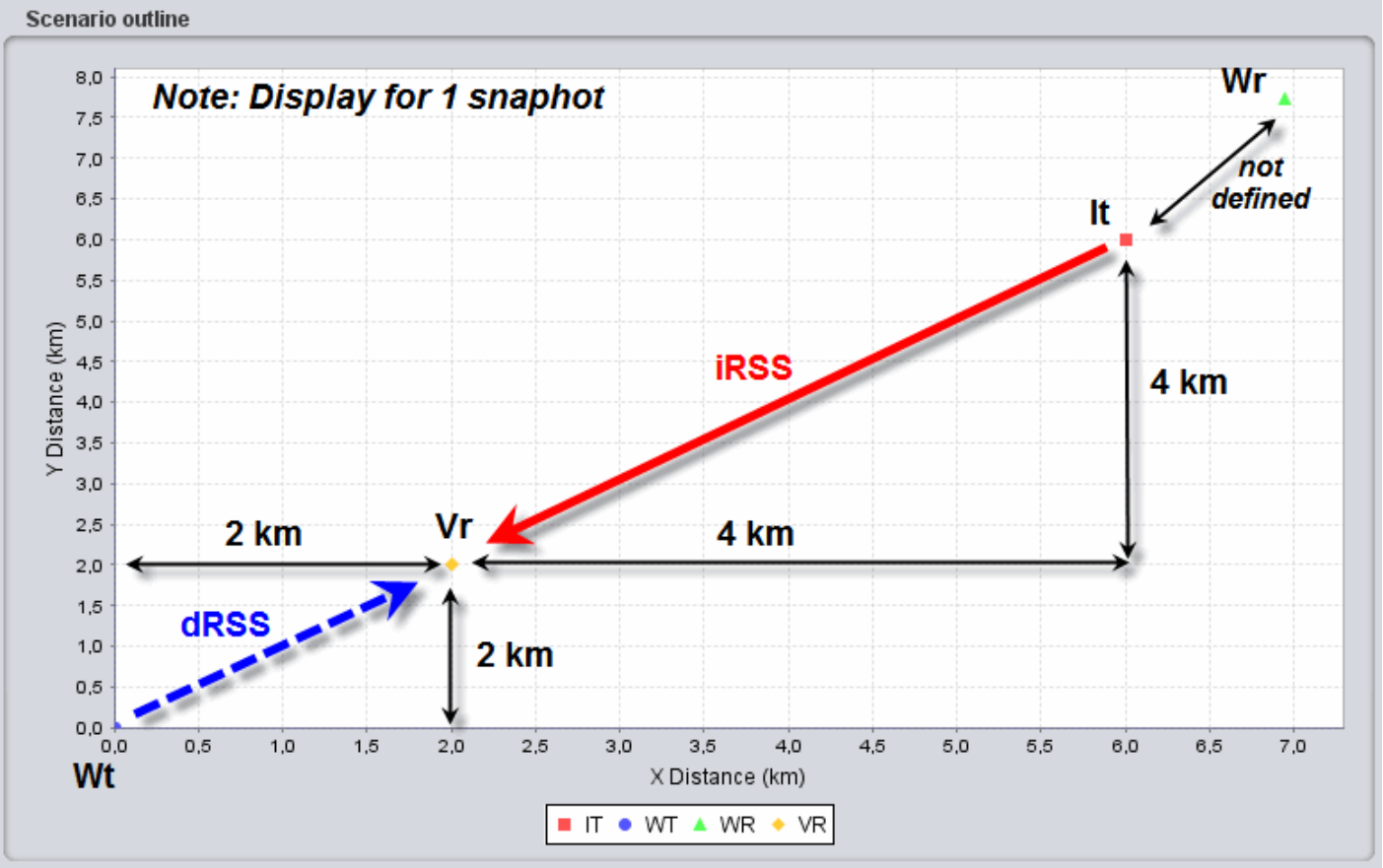

Figure 91: Illustration of SEAMCAT display (only 1 snapshot) of the various pair of transmitter and receiver and the dRSS and iRSS relationship

The attenuation between the Interefering link transmitter and the Victim link receiver is simulated by using the free space model (Variation should be disabled). When the simulation is finished, SEAMCAT presents the positioning of the various pairs of transmitters and receivers as shown in Figure 91(only one snapshot is illustrated).

Using these assumptions, it is possible to derive the interfering power received by the Victim link receiver iRSS:

(Eq.19)

$$\mathrm{iRSS} = \mathrm{Pe} + \mathrm{Ge} + \mathrm{Gr} - \mathrm{L}$$

$$\text{iRSS} = 33(\text{dBm}) + 11 + 9 - (32.5 + 10\log(32) + 20\log(1000))$$

$$\text{iRSS} = -54.5\text{dBm}$$

Revision #1
Created 2026-04-14 09:58:58 UTC by ECO TECH
Updated 2026-04-14 09:59:54 UTC by ECO TECH