

Introduction

It can be the VLR or the ILR as illustrated in Figure 143.

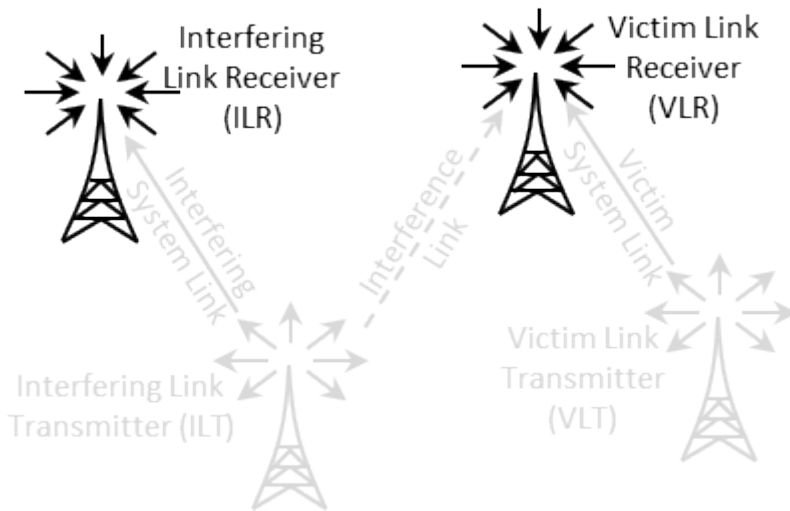


Figure 143: Receiver illustration as VLR or ILR

The receiver consists of 5 panels (Figure 144); Receiver identification, antenna pointing, antenna patterns identification, reception characteristics and interference criteria.

Receiver	Transmitter	Transmitter to Receiver Path
<p>Receiver identification</p> <p>Library <input type="button" value="📁"/> <input type="button" value="📁"/></p> <p>Name: DEFAULT_RX</p> <p>Description: <input type="text"/></p> <hr/> <p>Antenna pointing</p> <p>Antenna height [Constant(1.5)] <input type="button" value="Distribution"/> m</p> <p><input checked="" type="checkbox"/> Azimuth ref.: 0 deg. is pointing to the Tx</p> <p>Antenna azimuth [Constant(0.0)] <input type="button" value="Distribution"/> deg</p> <p><input type="checkbox"/> Elevation ref.: 0 deg. is pointing to the Tx</p> <p>Antenna elevation [Constant(0.0)] <input type="button" value="Distribution"/> deg</p>	<p>Antenna Patterns Identification</p> <p>Library <input type="button" value="📁"/> <input type="button" value="📁"/> <input type="button" value="🔄"/></p> <p>Name: DEFAULT_ANT</p> <p>Description: <input type="text"/></p> <p>Antenna Peak Gain: 0.0 dBi</p> <p><input type="checkbox"/> Horizontal <input type="button" value="Pattern"/></p> <p><input type="checkbox"/> Vertical <input type="button" value="Pattern"/></p>	<p>Reception Characteristics</p> <p>Noise Floor [Constant(-114.0)] <input type="button" value="Distribution"/> dBm ⓘ</p> <p>Blocking mode: User Defined</p> <p>Blocking mask [Constant(0.0)] <input type="button" value="Edit"/> <input type="button" value="📁"/> <input type="button" value="📁"/> dB</p> <p><input type="checkbox"/> Intermodulation rejection [Constant(0.0)] <input type="button" value="Function"/> dB</p> <p><input type="checkbox"/> Receive power dynamic range: 30.0 dB</p> <p>Sensitivity: -98.0 dBm</p> <p>Reception Bandwidth: 200.0 kHz</p> <p><input type="checkbox"/> Overloading</p> <p>Overloading threshold [Constant(0.0)] <input type="button" value="Function"/> dBm</p> <p>Receiver filter [Constant(0.0)] <input type="button" value="Function"/> dB</p> <hr/> <p>Interference Criteria</p> <p>C / I: <input type="text" value="19.0"/> dB</p> <p>C / (N + I): <input type="text" value="16.0"/> dB</p> <p>(N + I) / N: <input type="text" value="3.0"/> dB</p> <p>I / N: <input type="text" value="0.0"/> dB</p> <p><input type="button" value="Calculate Interference Criteria"/></p>

Figure 144: Receiver GUI

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