



LigoWave Link Analysis Report

Date Generated: 4/17/2014 8:53 PM EST

Site Information

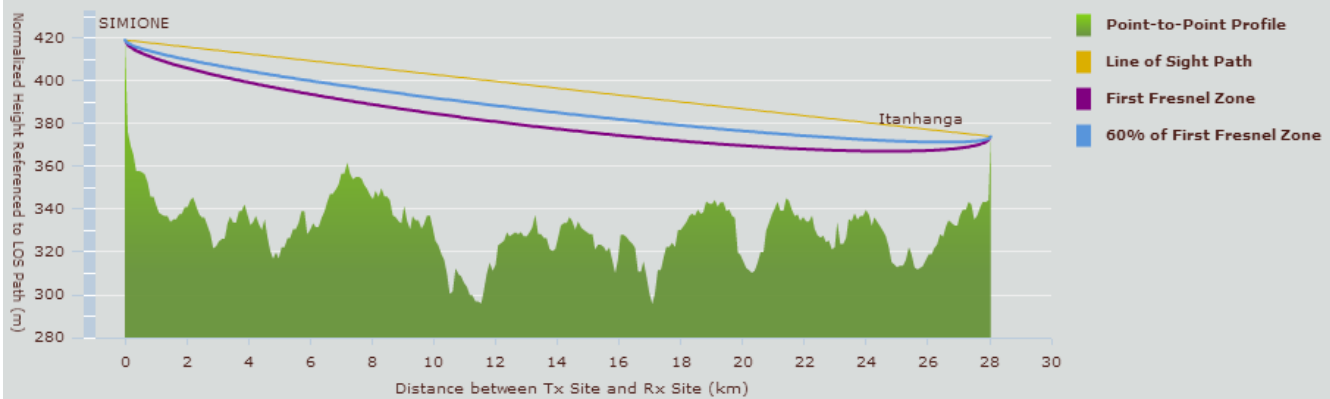
Tx Site Name	SIMIONE	Rx Site Name	Itanhanga
Radio Type	LigoPTP 5 Mimo	Radio Type	LigoPTP 5 Mimo
Latitude	12° 0' 18.37 S (12.005103)	Latitude	12° 14' 4.12 S (12.234478)
Longitude	56° 32' 13.74 W (56.53715)	Longitude	56° 38' 39.3 W (56.64425)
Tx Power	25 dBm	RX Threshold	-94 dBm
Ant. Gain	30 dBi	Ant. Gain	30 dBi
Ant. Height	40 meters	Ant. Height	30 meters

Parameters

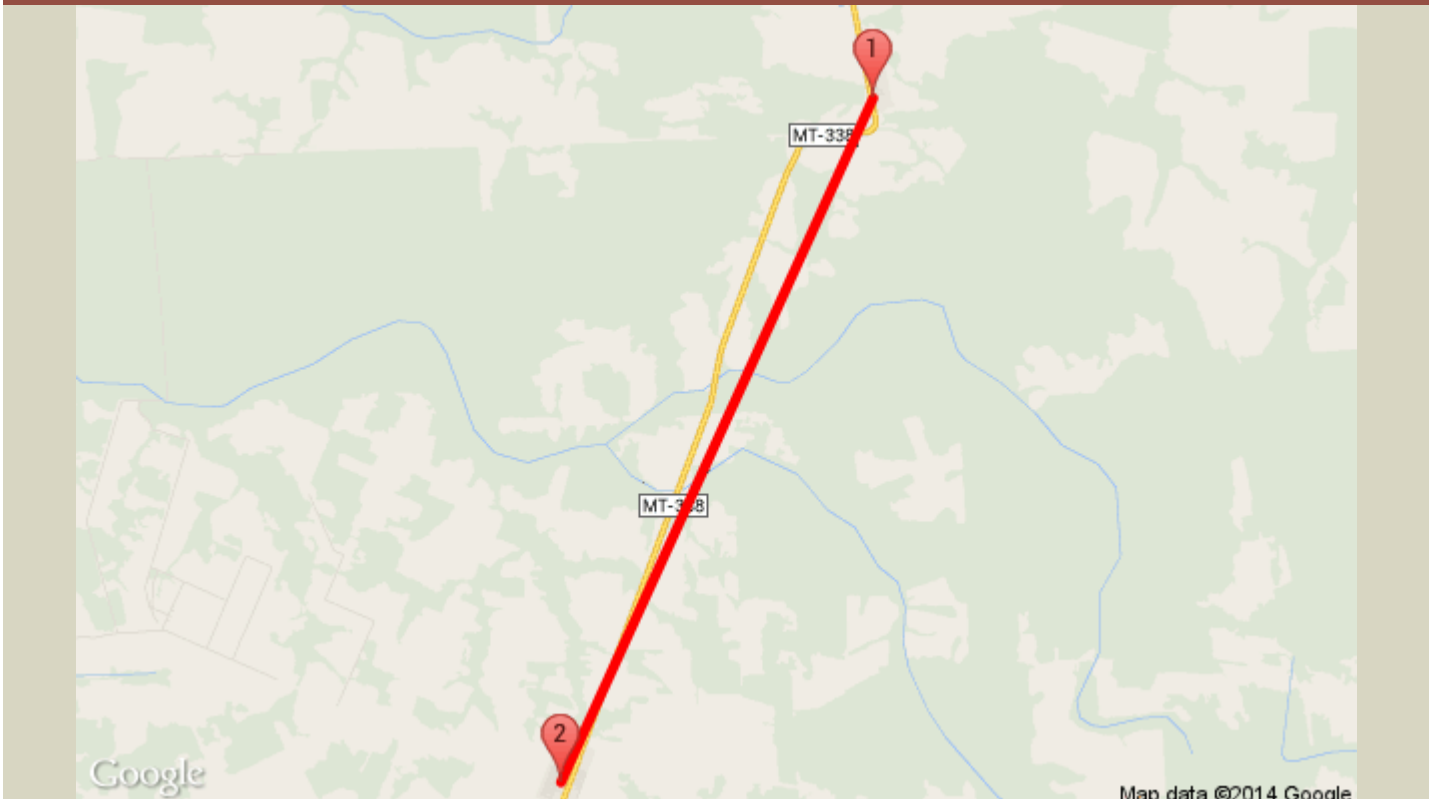
Frequency	5800 MHz	Climate	Continental Temperate
Ant. Polarization	Vertical	Measurement	Metric System
Misc. Loss	0 dBm	Rain Rate	0 mm/hr

Results

Total Path Loss	137.61 dBm	Total Fade Margin	41.39 dBm
RX Signal Level	-52.61 dBm	Distance between sites	28.04 km
EIRP	55 dBm	Link availability due to rain	N/A



MAP



DISCLAIMER: These results are provided with no guarantee or warranty.

20MHz CHANNEL					
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	TX/RX	MAX THROUGHPUT
BPSK 1/2	-52.61 dBm	41.39 dBm	N/A%	1X1	6 Mbps
QPSK 1/2	-52.61 dBm	38.39 dBm	N/A%	1X1	12 Mbps
QPSK 3/4	-52.61 dBm	36.39 dBm	N/A%	1X1	18 Mbps
16-QAM 1/2	-53.61 dBm	32.39 dBm	N/A%	1X1	22 Mbps
16-QAM 3/4	-55.61 dBm	26.39 dBm	N/A%	1X1	38 Mbps
64-QAM 2/3	-56.61 dBm	20.39 dBm	N/A%	1X1	44 Mbps
64-QAM 3/4	-57.61 dBm	17.39 dBm	N/A%	1X1	50 Mbps
64-QAM 5/6	-58.61 dBm	14.39 dBm	N/A%	1X1	55 Mbps
BPSK 1/2	-52.61 dBm	41.39 dBm	N/A%	2X2	12 Mbps
QPSK 1/2	-52.61 dBm	38.39 dBm	N/A%	2X2	24 Mbps
QPSK 3/4	-52.61 dBm	36.39 dBm	N/A%	2X2	36 Mbps
16-QAM 1/2	-53.61 dBm	32.39 dBm	N/A%	2X2	44 Mbps
16-QAM 3/4	-55.61 dBm	26.39 dBm	N/A%	2X2	76 Mbps
64-QAM 2/3	-56.61 dBm	20.39 dBm	N/A%	2X2	88 Mbps
64-QAM 3/4	-57.61 dBm	17.39 dBm	N/A%	2X2	100 Mbps
64-QAM 5/6	-58.61 dBm	14.39 dBm	N/A%	2X2	110 Mbps

40MHz CHANNEL					
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	TX/RX	MAX THROUGHPUT
BPSK 1/2	-52.61 dBm	41.39 dBm	N/A%	1X1	12 Mbps
QPSK 1/2	-52.61 dBm	38.39 dBm	N/A%	1X1	24 Mbps
QPSK 3/4	-52.61 dBm	36.39 dBm	N/A%	1X1	36 Mbps
16-QAM 1/2	-53.61 dBm	32.39 dBm	N/A%	1X1	44 Mbps
16-QAM 3/4	-55.61 dBm	26.39 dBm	N/A%	1X1	76 Mbps
64-QAM 2/3	-56.61 dBm	20.39 dBm	N/A%	1X1	88 Mbps
64-QAM 3/4	-57.61 dBm	17.39 dBm	N/A%	1X1	100 Mbps
64-QAM 5/6	-58.61 dBm	14.39 dBm	N/A%	1X1	110 Mbps
BPSK 1/2	-52.61 dBm	41.39 dBm	N/A%	2X2	24 Mbps
QPSK 1/2	-52.61 dBm	38.39 dBm	N/A%	2X2	48 Mbps
QPSK 3/4	-52.61 dBm	36.39 dBm	N/A%	2X2	72 Mbps
16-QAM 1/2	-53.61 dBm	32.39 dBm	N/A%	2X2	88 Mbps
16-QAM 3/4	-55.61 dBm	26.39 dBm	N/A%	2X2	115 Mbps
64-QAM 2/3	-56.61 dBm	20.39 dBm	N/A%	2X2	135 Mbps
64-QAM 3/4	-57.61 dBm	17.39 dBm	N/A%	2X2	160 Mbps
64-QAM 5/6	-58.61 dBm	14.39 dBm	N/A%	2X2	180 Mbps

DISCLAIMER: These results are provided with no guarantee or warranty.