

# Canopy™ OFDM Backhaul Link Estimator

**Version 5.30  
Release Note**

For Canopy 30/60 Mbps and 150/300 Mbps Backhaul

**BHOFDMLE-SRN-en  
Issue 6  
July 2006**



The contents of this guide are subject to change without notice

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<http://www.motorola.com/canopy>

<http://canopywireless.com/solutions/backhaul/>



Canopy 30/60 or 150/300 Mbps  
Backhaul Connectorized<sup>1</sup>



Canopy 30/60 or 150/300 Mbps  
Backhaul Integrated

<sup>1</sup> Connectorized antennas sold separately from radio  
See User Guide for a complete list of single and dual pole flat panel (1'-2') and parabolic antennas (2'-6')

# 1 Introduction

This document provides information for the Canopy Link Estimator version 5.30.

## 1.1 NEW FEATURES

This software release is a minor release of the Canopy Link Estimator to update the region codes available from the Link Wizard to support the 150/300 Mbps Backhaul in the 5.4 GHz band.

## 1.2 UPGRADE NOTES

Links saved from previous versions of the Link Estimator are supported by this version. Region 4 is no longer available to Canopy OFDM BH 30/60, so links using this band will automatically be changed to region 12 that offers the same power settings.

## 1.3 KNOWN ISSUES

The following issues apply to this version of the Link Estimator.

- With links greater than 20km in a location where climatic affects are extreme, the calculations in the ITU standard can give a calculation error. This will show up in the Link Estimator with a #NUM error on the data rate and reliability figures.
- Under Office 2003, the external Antenna Gain and Spatial Diversity boxes on the DataEntry sheet maybe incorrectly coloured. This does not affect operation. There are no other known issues with this version of the Link Estimator running with Microsoft Excel Office 97, Office 2000 & Office 2003 under Windows 2000 & Windows XP.

There are two known issues when running with Excel vX running on a Mac.

- 1) When saving path profiles or when generating reports, the file save as dialogue box always opens with a default file extension of .xls instead of either .dat (for path profiles) or .htm (for html report generation). The work around is to edit the file extensions manually.
- 2) The path profile picture is not automatically exported when generating reports. The work around is to perform manual extraction of this picture using a screen capture tool. The estimator has been tested on Excel 97, Excel 2000, Excel 2003 and Excel vX.

## 1.4 INSTALLATION NOTES

It is recommended that a back up copy is made of the previous Link Estimator is made before proceeding with the installation.

The Canopy Link Estimator is provided as a Zip file containing the following files & folders.

Canopy\_Link\_Estimator\_5v30.xls

Example\_ATDI\_Link.txt

Example\_Micropath\_Link.txt

Example\_of\_Formatted.csv

Example\_Softwright\_TAP\_4v3.txt

Example\_Pathloss\_Link.txt

Example\_Radio\_Mobile\_Link\_Metric.txt

Handbook.dat

LinkEstimatorUSScreen.pdf

LinkEstimatorUserGuide.pdf

This Release Note

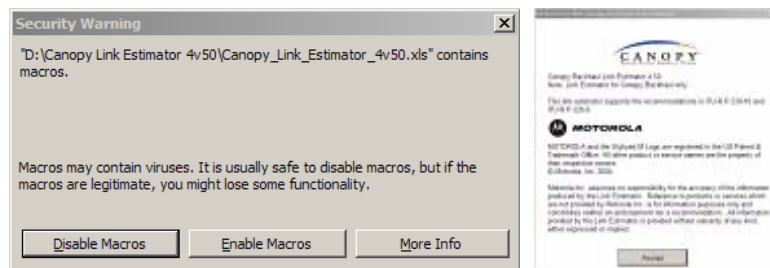
A folder named Reports containing logo1.gif, logo2.gif, logo3.gif, handbook.gif & handbook.html as a sample report.

The above files should be unzipped into the same folder.

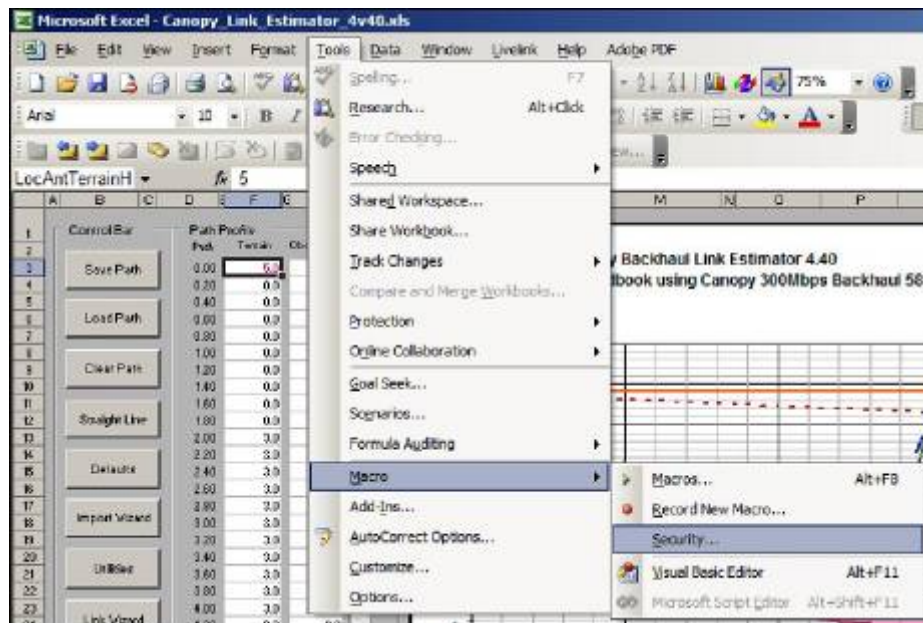
## 1.5 OPERATION

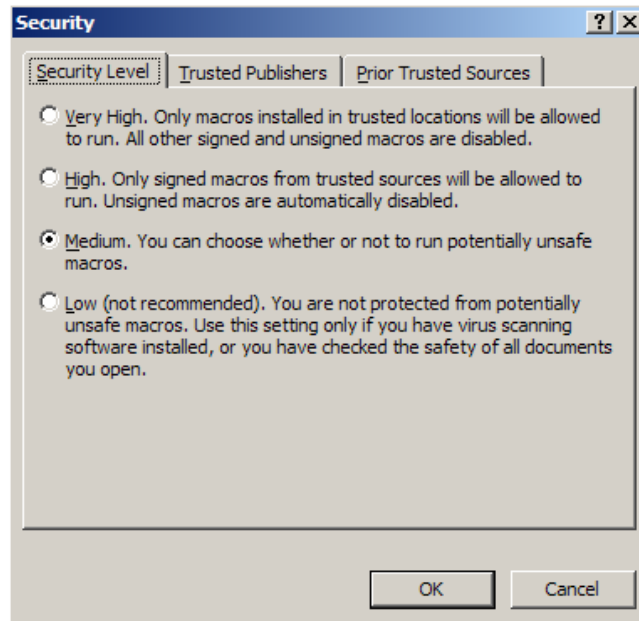
The Link Estimator is a Microsoft Excel Spreadsheet that makes extensive use of macros to operate. To run the Link Estimator start Microsoft Excel and load the Link Estimator file or double click the file from a file explorer.

For the Link Estimator to operate correctly, Microsoft Excel macros must be enabled (Either a prompt to enable macros and/or a splash screen with terms and conditions will be seen during start-up if macros are enabled).



The entry in Microsoft Excel menus Excel-Tools-Macro-Security must be set to either Medium or Low for macros to run.





## 1.6 GETTING ADDITIONAL HELP

To get information or assistance as soon as possible for problems that you encounter, use the following sequence of action:

1. Search this document, the user manuals that support the modules, and the software release notes of supported releases
  - a. in the Table of Contents for the topic.
  - b. in the Adobe Reader<sup>®</sup> search capability for keywords that apply.<sup>1</sup>
2. Visit the Canopy systems website at <http://www.motorola.com/canopy>.
3. Ask your Canopy products supplier to help.
4. Gather information such as
  - the IP addresses and MAC addresses of any affected Canopy modules.
  - the software releases that operate on these modules.
  - data from the Event Log page of the modules.
  - the configuration of software features on these modules.
5. Escalate the problem to Canopy systems Technical Support (or another Tier 3 technical support that has been designated for you) as follows. You may either
  - send e-mail to [technical-support@canopywireless.com](mailto:technical-support@canopywireless.com).
  - call 1 888 605 2552 (or +1 217 824 9742).

For warranty assistance, contact your reseller or distributor for the process.

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<sup>1</sup> Reader is a registered trademark of Adobe Systems, Incorporated.

## 1.7 **SENDING FEEDBACK**

We welcome your feedback on Canopy system documentation. This includes feedback on the structure, content, accuracy, or completeness of our documents, and any other comments you have. Please send your comments to [technical-documentation@canopywireless.com](mailto:technical-documentation@canopywireless.com).