SOFTWRIGHT LLC

Terrain Analysis Package™ Overview and New System Price List

SoftWright LLC, a GSA contract holder, is the developer of the Terrain Analysis Package (TAP™). TAP™ is used by federal agencies, state/local public safety departments, energy companies, utilities, and consultants to evaluate radio transmitter sites; predict radio coverage; conduct intermodulation and adjacent channel interference studies; and design microwave/vhf/uhf links. TAP™ is used on all seven continents in over seventy countries.

TAP™ is comprised of individually licensed software modules, which may be purchased in almost any combination depending on user requirements for area coverage studies, path profiles, interference studies, presentation of results, and budget. Popular TAP™ configurations are described below.

Package A: TAP™ Minimum for Basic Coverage Studies and Path Profiles

TAP™ Module	Price
Basic Mapping	$1448.37
RF Facilities	$2003.76
Longley-Rice Propagation	$1818.63
Total	**$5270.76**

Package B: TAP™ Minimum for Path Analysis

TAP™ Module	Price
Basic Mapping	$1448.37
RF Facilities	$2003.76
Microwave Reliability	$1317.69
VHF/UHF Reliability	$1317.69
Total	**$6087.51**

Package C: Most Popular TAP™ Package for Area Coverage Studies

TAP™ Module	Price
Basic Mapping	$1448.37
RF Facilities	$2003.76
Longley-Rice Propagation	$1818.63
Bullington Propagation	$1818.63
Land Use	$686.07
3D Display	$626.18
Aggregate Coverage	$1072.67
Adjacent Channel Int	$1072.67
AutoCoverage	$658.85
Total	**$11205.74**

Package D: Most Popular TAP™ Package for Microwave/VHF/UHF Path Analysis

TAP™ Module	Price	TAP™ Module	Price
Basic Mapping	$1448.37	Microwave Reliability	$1317.69
RF Facilities	$2003.67	VHF/UHF Reliability	$1317.69
3D Display	$626.18	Shadow Map	$528.17
Land Use	$686.07	Antenna Elevation	$446.49
AutoPath	$446.49	Reflection Analysis	$539.06
		Total	**$9359.88**

Other Products & Services: SoftWright offers global topographical and land use data, annual software maintenance subscriptions, and many options for training and support. Contact sales@softwright.com.

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Terrain Analysis Package™ Complete Price List

TAP™ is comprised of individually licensed software modules. A 10% discount is given for an initial new license purchase. A 40% discount is given for additional license purchases. TAP™ may be installed on individual computers running 64-bit Windows operating systems or on a server for use as a single- or multi-seat network installation. Software annual maintenance is provided at 20% of Individual Module pricing. See www.softwright.com for complete module descriptions and example applications.

Complete TAP Module Listing, Brief Description, and Pricing

TAP™ Module	Description	Price (Individual Module)	Price (New License)	Price (Additional License)
Basic Mapping	Required for all TAP users	$1609.30	$1448.37	$965.58
RF Facilities	Required to save facility descriptions	$2226.40	$2003.76	$1335.84
Longley-Rice	Most popular and flexible propagation model	$2020.70	$1818.63	$1212.42
Bullington	Knife-edge diffraction propagation, preferred in rough terrain and for air-to-ground studies	$2020.70	$1818.63	$1212.42
Okumura	VHF and UHF land mobile radio propagation	$2020.70	$1818.63	$1212.42
Rounded Obstacle	Diffraction over a single isolated obstacle – good for buildings and other discrete interferers	$2020.70	$1818.63	$1212.42
Broadcast / SMR	(FCC Part 73) VHF and UHF propagation for TV and FM broadcasting and specialized mobile radio (from FCC Part 90)	$1379.40	$1241.46	$827.64
Carey	(FCC Part 22) Land mobile radio propagation	$1379.40	$1241.46	$827.64
Hata-Davidson	Propagation in 30 – 1500 MHz uses Height Above Avg Terrain (HAAT)	$1379.40	$1241.46	$827.64
Egli	Simple RF propagation model for gently rolling terrain	$1379.40	$1241.46	$827.64
3D Display	Export 3D coverage and path studies to Google Earth, Maptitude, ArcGIS, etc.	$695.75	$626.18	$417.45
Shadow Mapping	Quickly ID areas with line of sight, Fresnel zone clearance, etc.	$586.85	$528.17	$352.11
Pattern Distortion	Model the horizontal plane pattern distortion of an omni-directional antenna when mounted on a metal tower	$586.85	$528.17	$352.11
Stacked Antenna	Add multiple vertically-stacked horizontal plane antenna patterns	$272.25	$245.03	$163.35
Aggregate Coverage	Uses multiple area coverage studies to calculate a resultant composite area coverage	$1191.85	$1072.67	$715.11
Adjacent Channel Int.	Compute the interfering effects between stations	$1191.85	$1072.67	$715.11
AutoCoverage	Automate setting up coverage specifications	$732.05	$658.85	$439.23
Microwave Reliability	Design and evaluate microwave link reliability	$1464.10	$1317.69	$878.46
Antenna Elevation	Calculate a suitable antenna elevation above ground level	$496.10	$446.49	$297.66
Reflection Analysis	Locate potential reflection points along a path	$598.95	$539.06	$359.37
VHF/UHF Reliability	Design and evaluate link reliability in UHF and VHF bands	$1464.10	$1317.69	$878.46
AutoPath	Automate path specifications eliminating manual data entry	$496.10	$446.49	$297.66
Land Use	Import USGS Land Use Land Cover (LULC) files and then use them in the analysis	$762.30	$686.07	$457.38
Intermod	Compute intermodulation products	$1264.45	$1138.01	$758.67