

SOFTWARE & MODULES FEATURE COMPARISON



Propagation module ENTERPRISE

Optimization module ENTERPRISE Collection module ENTERPRISE

WIRELESS TECHNOLOGIESWi-Fi (802.11 a/b/g/n/ac/ax)5G: NR (Sub-6GHz and mmWave)4G: LTE / LTE-A / LTE-LAA / CBRS / WiMAX (802.16) / WiBro3G: HSPA / HSPA+ / WCDMA / 1xEV-DO / TD-SCDMA2G: GSM / CDMA / EDGE / GPRS / iDEN / TDMA / & morePublic Safety Broadband 4.9 GHz (802.11y)Public Safety P25, TetraDVB-H / MediaFLO / RFID / ZigBee (802.15.4) / WMTS / LoRa / UWB / GPSSYSTEM DESIGNDesign Plan for indoor RF system designCentralized database with over 29,000 components from over 300 vendorsSupport base stations, off-air repeaters and small cellsMIMO 2X2, 3X3, 4X4	with Propagation and Optimization modules			
5G: NR (Sub-6GHz and mmWave) 4G: LTE / LTE-A / LTE-LAA / CBRS / WiMAX (802.16) / WiBro 3G: HSPA / HSPA+ / WCDMA / 1xEV-DO / TD-SCDMA 2G: GSM / CDMA / EDGE / GPRS / iDEN / TDMA / & more Public Safety Broadband 4.9 GHz (802.11y) Public Safety P25, Tetra DVB-H / MediaFLO / RFID / ZigBee (802.15.4) / WMTS / LoRa / UWB / GPS SYSTEM DESIGN Centralized database with over 29,000 components from over 300 vendors Support base stations, off-air repeaters and small cells	 with Propagation and Optimization modules 			
4G: LTE / LTE-A / LTE-LAA / CBRS / WiMAX (802.16) / WiBroImage: Sign / CDMA / LTE-LAA / CBRS / WiMAX (802.16) / WiBro3G: HSPA / HSPA+ / WCDMA / 1xEV-DO / TD-SCDMAImage: Sign / CDMA / EDGE / GPRS / IDEN / TDMA / & morePublic Safety Broadband 4.9 GHz (802.11y)Image: Sign / CDMA / EDGE / GPRS / IDEN / TDMA / & morePublic Safety P25, TetraImage: Sign / CDMA / EDGE / GPRS / IDEN / TDMA / WMTS / LoRa / UWB / GPSSYSTEM DESIGNImage: Sign Plan for indoor RF system designCentralized database with over 29,000 components from over 300 vendorsImage: Sign Plan for indoor RF system designSupport base stations, off-air repeaters and small cellsImage: Sign / Centralized database	V			
3G: HSPA / HSPA+ / WCDMA / 1xEV-DO / TD-SCDMA 2G: GSM / CDMA / EDGE / GPRS / iDEN / TDMA / & more Public Safety Broadband 4.9 GHz (802.11y) Public Safety P25, Tetra Public Safety P25, Tetra DVB-H / MediaFLO / RFID / ZigBee (802.15.4) / WMTS / LoRa / UWB / GPS SYSTEM DESIGN Centralized database with over 29,000 components from over 300 vendors Support base stations, off-air repeaters and small cells Small cells	•	 ✓ 	V	
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Centralized database with over 29,000 components from over 300 vendors Support base stations, off-air repeaters and small cells				
Support base stations, off-air repeaters and small cells	V			
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Coaxial, radiating and CAT5 cable signal distribution	· ·			
Multi-strand fiber-optic cables and components support for fiber modeling	V			
Support Wi-Fi access points including multi-radio APs (high density)	V			
Antenna contours	V			
Smart antenna contours considering building architecture and antenna pattern		 ✓ 		
Network validation and error checking	~			
AUTOMATION				
Automatic design plan organizer	 ✓ 			
Automatic access point placement			V	
Automatic channel assignment			<i>v</i>	
Power sharing automation for neutral host system designs Cable route and automatic cable alignment	V			
Automatic cable and splitter selection for passive DAS	<i>v</i>			
Optimal antenna placement	•		 ✓ 	
Reset part ID	 ✓ 			
CALCULATIONS				
Automatic cable length measurements	~			
RF Downlink link budget calculations	V			
RF Uplink link budget calculations	V			
Fiber link budget	v			
Passive Intermodulation (PIM) calculations and analysis based on component PIM ratings			 ✓ 	
BUILDING MODELING				
Create multiple buildings	v			
Multi-layered floor plans with layout plans, walls, system equipment, cables, and more	V			
Import floor plans from .dwg, .dxf, .jpeg, .bmp, .tiff, .gif or .pdf files	v			
Draw walls (linear and curved) and surfaces	 ✓ 			
Automatic drawing of inclined surfaces	v			
Assign material from material database		✓ ✓		
Import walls from raster CAD files, PDF or images		V		
3D Viewer to display buildings and floors Zone layer per wireless service	V V			
Export building to Google Earth and building in Google Earth or Bing	<i>v</i>			
PROPAGATION Body Loss Modeling				
Body Loss Modeling LTE Handoff Matrix				
Simultaneous multi-band / technology propagation 3D prediction analysis		V		
Variable Path Loss Exponent propagation model using environment density zones		· · · · · · · · · · · · · · · · · · ·		
COST 231 Multi Wall model (Direct Ray) propagation model		V		
Fast Ray Tracing propagation model		 ✓ 		
Probe to display multi-system prediction results		V		
Compliancy results based on user defined criteria		 ✓ 		
Customizable output map legends		 ✓ 		
Prediction model and material calibration from survey data		V		V
Import outdoor propagation maps from leading outdoor planning tools		 ✓ 		
Consider outdoor signal for interference and propagation maps			v	
2D and 3D antenna pattern support		<i>v</i>		
Multiple Compliance Zone definition Donor Antenna Isolation Validation				
OUTPUT MAPS		· ·		
5G NR SS-RSRP, SS-SNIR, PDSCH-SINR, PDSCH-RP, SS-RSRQ, MADR, Best Server		×	×	
Signal strength, Best Server			V	
HSPA RSCP, LTE RSRP		· · ·		
Field strength, Handoff, Service Count maps, Nature of the path		V		
Wi-Fi Best AP, Best Channel, Overlap zone, AP Count		V		
SNIR, Maximum Achievable Data Rate, Dominance over Macro Maps			V	
CDMA and WCDMA Active ser			 ✓ 	
LTE RSRQ, LTE RSRP, LTE Best Server in R14, Overlapping Zones maps, LTE-A Max Achievable Data Rate			~	
Wi-Fi CCI, SNR			V	
Uplink Mobile Power			 ✓ 	
Indoor propagation map interpolated from:			<i>v</i>	
Outdoor planning tools Walk tests or empirical measurements			レ レ レ	×
Estimated surrounding signal strength			V V	
Redundant DAS failure point propagation simulations		✓	•	
Hetnet Capacity Analysis with hotspot zones			V	
Average Downlink Data Rate			· · ·	
Optimal Antenna Placement map			~	
DATA COLLECTION				V
DATA COLLECTION Manually create trace routes and enter survey data on floor plans				V
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