BiB	WOVE STEST SOFTWARE & MODULES TECHNICAL FEATURES COMPARISON	D.  iBwave Design  ENTERPRISE	Propagation module ENTERPRISE	Optimization module ENTERPRISE	Collection module ENTERPRISE	iBwave Design	Propagation module LITE	iBwave 3D Modeler
DAS DESIGN	Trunking diagram for indoor RF system design (Design plan) Automatic design plan placement	<i>V</i>				<i>V</i>		
1	Multiple systems, technologies and bands combined in the same project	~				V		
	Support base station, radio tranceiver and off-air repeater  Coaxial, radiating and CAT5 cable signal distribution	<i>V</i>				V		
1	Multi-strand fiber-optic cables and components support for fiber modeling	V						
	Connector validation  Centralized database with over 17,000 components from over 260 vendors	<i>V</i>				V		
	Display antenna contours and calculations	V						
	Downlink RF calculations  Uplink RF calculations	<i>V</i>				<i>V</i>		
	Automatic cable and splitter selection for optimal system balancing	V						
	Network validation and error checking Optimal Antenna Placement	<b>✓</b>		V		<i>V</i>		
	Power sharing interface for neutral host designs	V						
H	PIM calculations			<b>V</b>				
BUILDING	Multi-layered floor plans with layout plans, walls, DAS equipment, cables, and more					~		V
	Create, modify and delete building entities and Layout plans  Create multiple buildings	<i>'</i>				<i>'</i>		<i>V</i>
	Import floor plans from .dwg, .dxf, .jpeg, .bmp, .tiff, .gif or .pdf	V				~		<b>V</b>
	Draw walls and horizontal surfaces (Generic material only)  Draw inclined surfaces	<i>V</i>				V		V
	Design plan organizer	<i>V</i>						
_	Zone layer per wireless service	<b>V</b>				<i>V</i>		.,
_	Display buildings and floor plans in 3D (3D Viewer)  Export buildings to Google Earth	<i>V</i>				<b>✓</b>		<i>V</i>
	Draw walls, surfaces and assign material from built-in material database		<b>V</b>				<b>~</b>	<i>V</i>
WIRELESS	4G: LTE / WiMAX (802.16) / WiBro	<b>V</b>				V		
TECHNOLOGIES	3G: HSPA / HSPA+ / WCDMA / 1xEV-DO / TD-SCDMA	~				V		
	2G: GSM / CDMA / EDGE / GPRS / iDEN / TDMA / & more WiFi (802.11 a/b/g/n/ac)	<i>V</i>				V		
	DVB-H / MediaFLO	<i>V</i>				<i>V</i>		
F	RFID / ZigBee (802.15.4) / WMTS	<b>✓</b>				V		
FREQUENCY	VHF / UHF	V				V		
BANDS	TETRA / 450 MHz / Paging	V				V		
_	Public Safety 700 / SMR800-900 GSM900 / DCS1800 / UMTS2100	<i>'</i>				<i>V</i>		
	Cellular850 / PCS1900 / AWS2100	~				~		
_	WiFi 2400-5800 WiMAX 2300-3400-5800	<i>'</i>				<i>'</i>		
	DVB-H 470-1670	V				~		
(	Propagation prediction analysis  COST 231 and Variable Path Loss Exponent (VPLE) propagation model  Fast Ray Tracing propagation model		<i>V V</i>				V	
	Draw inclined surfaces and assign material from built-in material database  Import walls from raster images or AutoCAD files		<i>V</i>				<b>✓</b>	
1	Multi-technology compliance analysis (%)		V				V	
	Multi-story 3D prediction maps Import outdoor propagation maps from leading outdoor planning tools		<i>V</i>					
	Consider outdoor signal for interference and propagation maps		-	V				
	Signal, Best Server, Wi-Fi Best Server AP and Channel Field strength, Soft Handover, Service Count maps		<i>V</i>				<b>✓</b>	
	CDMA and WCDMA RSCP MAP, LTE RSRP MAP		<i>V</i>				V	
	SNIR, Maximum Achievable Data Rate, Dominance over Macro Maps			V				
	CDMA and WCDMA Active set map  LTE RSRQ and Overlapping Zones maps			<i>V</i>				
	Uplink Mobile Transmit Power maps			V				
	Input outdoor signal map from walk test or empirical measurements  Calibrate propagation models		V	<b>✓</b>	V			
F	Redundant DAS failure point propagation simulations		V		·		~	
	LTE-Advanced, Maximum Achievable Data Rate			<b>V</b>				
DAIA _	Manually create trace routes and enter survey data on floor plans				V			
	Import trace routes and survey measurements from 3rd party collections tools  Export design in IBWC format				V			
_	Display routes on floor plans with legends				V			
	Print project decumentation							
PROJECT DOCUMENTATION	Print project documentation  Create project revisions	<i>'</i>				V V		<i>V</i>
/	Attach annotations (text, voice, picture, video)	~				V		<i>V</i>
	Create picture plans  Export project to .dxf format	<i>V</i>				V		<i>V</i>
	Advanced text edition	<i>V</i>				V		<i>V</i>
DEDORES	Export reports in various format (.rpt, .pdf, .xls, .doc, .rtf, .xml)	V				V		
REI GRIS	Annotations, Output Maps, RF survey	<i>V</i>				<i>V</i>		V
	Link budget Horizontal link budget	V				V		
	Equipment list	<i>V</i>				<i>V</i>		
_	Cost report	V						
_	Antenna EiRP report Electromagnetic field (EMF)	<i>V</i>						
	Cable routing, location and cross-reference	<i>'</i>						
_	Prediction vs. measured data report (requires Propagation & Collection Modules)  Compliance		<i>V</i>		<b>✓</b>		V	
	PIM Compliance		V	V			•	
OADAOUTY C	Canacity simulation			V				
ANALISYS (	Capacity simulation Capacity report			<i>V</i>				
						1-1		
	Load / save project to iBwave Unity	V				V		V