Pilot Walktour Pack4.8

Powering Network Experience

DingLi Corporation Limited



telecom.dingli.com



PILOT WALKTOUR 1

Product Overview

Overview

- Pilot Walktour Pack is a portable multi-device and multi-technology field test solution in a backpack. A tablet controller unit is used to manage all the test configuration and real-time measurement. The robust chassis was designed with processing power and secure device connectivity to handle multi-device testing or multi-network benchmarking.
- Pilot Walktour Pack's unique design and portability enable users to conveniently perform outdoor and indoor mobile network.

Operational efficiency
Centralized control
Comprehensive information



Pilot Walktour Pack



Backpack 1.0

Backpack 2.0





Controlling Chassis

Tablet Controller



Benefits compared to traditional



Powerful, portable, simple operation for benchmarking testing



- Multiple test devices for network benchmarking. Not portable enough due to equipment set up
- Connection via cable or USB port
- Sufficient power solution needed for continuous outdoor tests
- Mostly dependent on Android based devices



- Portable, a backpack contains all test devices
- Built-in battery, Continuous test capability: up to eight hours
- Connection with WiFi or data cable, Stable, and easy for commissioning
- Multiple commercial handsets used for testing



PILOT WALKTOUR 2^{*} PACK

Product Details

Pilot Walktour Pack Test Diagram



Pilot Pioneer

Pilot Fleet Edge





Our Solution

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Tablet

- Controller
- Configure test terminal groups
- Deliver test plans
- Manage data files
- Monitor test terminals and test progress
- Display real-time measurement information



Mobile Phone

- Test terminal
- Based on Harmony OS / Android OS mainstream commercial terminals for measuring mobile network
- Supports GSM/UMTS/LTE/NR network technologies
- Captures L1/L2/L3 signaling messages



Pilot Walktour Pack Chassis and Backpack

- Up-to 8-14 test terminals (where max. 8 may be used for simultaneous MOS test)
- Connect to Android tablet over Wi-Fi
- Automatic detection for connectivity
- Unique QR code on each chassis for connectivity to the respective Pilot Walktour Pack software.



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DL845PV



Powering Network Experience

Our Solution

Portable benchmarking test

- Compact and lightweight
- Simultaneous multi-network testing
- Managed by one engineer during the whole testing
- Customized test groups

Meet users' needs

- Based on Qualcomm/HiSilicon chipset of Commercial mobile phones
- Collects various radio access network
 parameters

5G Walktour Pack **Pilot Walktour** Pack



Various test services

- CS Call, CSFB, VoLTE, VoNR, EPS fallback
- FTP, Ping, Email, HTTP Page, Parallel
 Service, Video Play, HTTP Download, PBM,
 Speedtest, TCP/IP, etc.

Network Measurement

- Outdoor and Indoor tests
- Outdoor GPS positioning and automatic indoor positioning with Gyroscope
- Real-time test progress and information
- Centralized data management

Application Scenarios (1)



Test Anytime and Anywhere

Indoor test

Such as passenger lifts, stairs, shopping centers, residential and commercial buildings, etc.

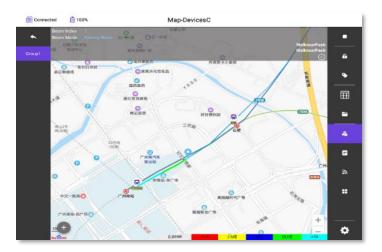
- Pre-defined floor plans
- Automatic/manual pinpointing
- Indoor coverage distribution display
- JPG/PNG/BMP map import
- Automatic map import for indoor testing
- Log files storage according to the floors



Outdoor test

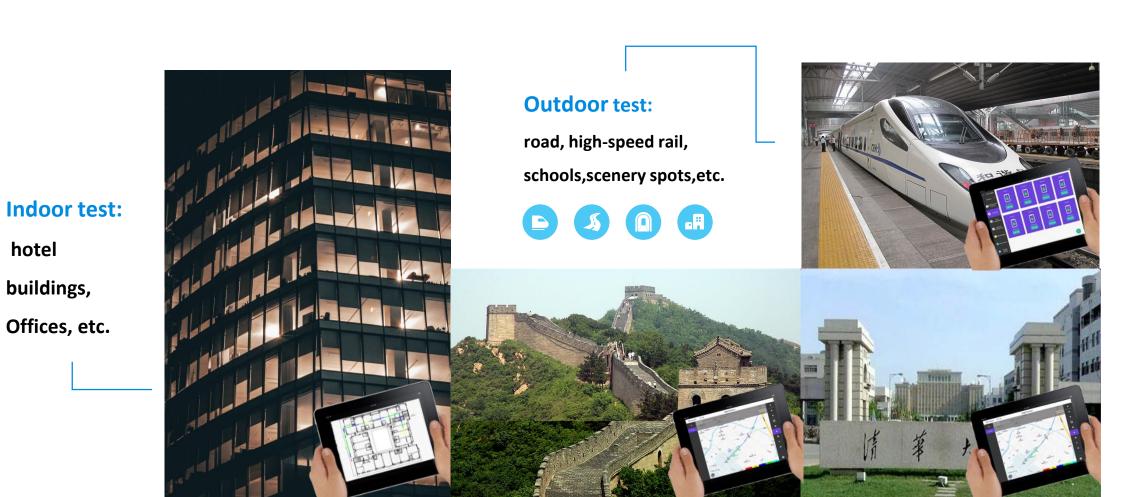
Such as highways, high-speed rail, scenery spots, campus, tunnel, etc.

- Built-in/external high- performance GPS
- Google online/offline Maps
- Real-time GPS coverage
- User-defined parameter display
- Site details verification



Application Scenarios (2)

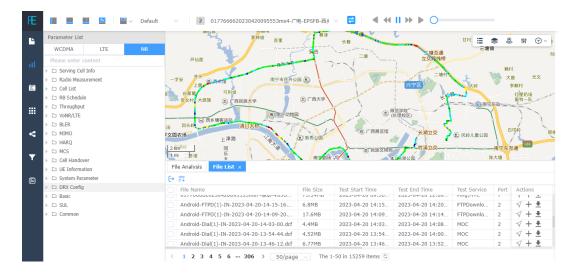
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Centralized Data Management and Analysis



Upload data files to Pilot Fleet Edge for centralized management and specialized analysis



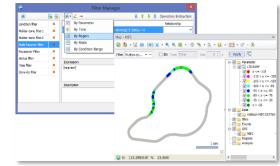
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- Parameter Query
- Events Query
- Parameter Associate Analysis
- Permeability Analysis
- Qualified Coverage Analysis
- Antenna Reverses Analysis

- Region Comparison
- Period Based Comparison
- Operator Comparison
- Route Completion
- Cell Statistics Analysis
- 4G/5G Exception Analysis

Import data files to Pilot Pioneer Expert for professional analysis



- Data Insight
- Measurement over Distance Analysis
- Parameter Quadrant Analysis
- Overshooting Analysis
- Extended Coverage Analysis
- Coverage Rate Analysis
- Overlapping Coverage Analysis
- Antenna Feeder Reversed Analysis
- Mod3 Analysis



- Pilot Pollution Analysis
- Cell Coverage Analysis
- Cell Statistics and Analysis
- MO/MT Union Analysis
- CSFB Exception Analysis
- Delay Analysis



ACK TOUR 3

New Features

New Features

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Battery Life Indicators

- battery life of backpack controller
- Low battery alert



Cell phone Indicators

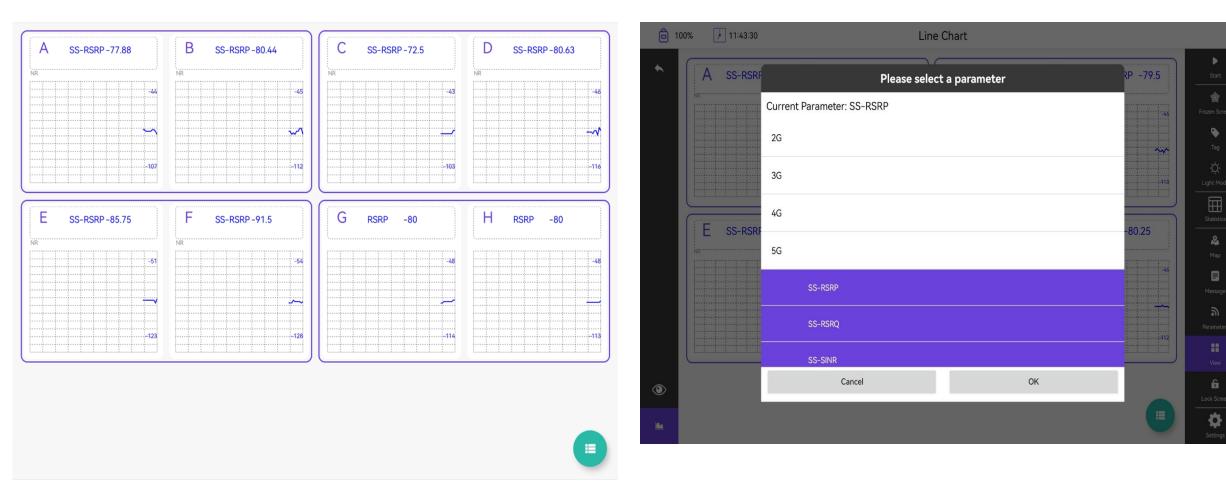
- battery life and temperature indicator
- CPU temperature

a 9	5% 🕖 20:56:42		Thu	ımbnails			a 95% b 20:56:39					Thu	umbnail	S		
*	Battery of pack		B Mobile NR	C Mobile NR	D Mobile NR	▶ Start	•	A	В	С	D	E	F	G	Н	► Start
	90% 100%		70% 809099052339662	79% 863150058301242	85% 869099054079043		Device Status									
	Join 100% 8000 Disk of pack 41	,	SS-RSRP -8100 SS-SINR 7000 PCI 527 Band 41 MAC Thr DL 41 41	SS-RSRP -7350 SS-SINR 12375 PCI 527 Band 41 MAC Thr DL	SS-RSRP -7650 SS-SINR 7625 PCI 527 Band 41 MAC Thr DL	Frozen Screen	Model number	NOH-AN00	NOH-AN01	NOH-AN01	NOH-AN01	NOH-AN01	NOH-AN01	NOH-AN00	NOH-AN01	Frozen Screen
	Disk of pedestal remaining:181.542706 G CPU Temperature of pedestal:0°C CPU Load Statistics of pedestal:0%		MAC Thr UL Current Service Idle Test Progress	MAC Thr UL Current Service Idle Test Progress	MAC Thr UL Current Service Idle Test Progress	•	System OS Version	Android10	•							
	Devices Information					Tag	Battery Level	95	70	79	85	85	76	71	68	Тад
	Tablet GPS		Power On Power Off Port Reset	Power On Power Off Port Reset	Power On Power Off Port Reset	÷Ċ:	Run Duration	2Days 6:25:00	2Days 7:53:15	0Days 0:21:50	2Days 8:09:20	2Days 7:32:15	2Days 7:02:50	2Days 8:17:20	2Days 7:40:10	-Ò-
	FUIL NESEL		Port Reset	Fort Reset	Port Reset	Light Mode	Connection Status	Connected	Light Mode							
	E Unicom NR		F Unicom NR	G Telecom LTE 71% 863342047035755	H Elecom LTE	Statistics	Phone Status	Power On	Statistics							
	SS-RSRP -8531 SS-SINR 8625	5	SS-RSRP -9000 SS-SINR 9125	RSRP -8100 SINR 6000	RSRP -7150 SINR 18250	<u> </u>	Historical Exception Count	0	0	0	0	0	0	0	0	
	PCI 107 Band 78 MAC Thr DL MAC Thr UL		PCI 107 Band 78 MAC Thr DL MAC Thr UL	PCI 330 Band 3 MAC Thr DL 0.00 MAC Thr UL 0.00	PCI 330 Band 3 MAC Thr DL 0.00 MAC Thr UL 0.00	Map	Battery Temperature	28.0°C	29.0°C	29.0°C	29.0°C	30.0°C	28.0°C	29.0°C	29.0°C	& Map
	Current Service Idle Test Progress		Current Service Idle Test Progress	Current Service Idle Test Progress	Current Service Idle Test Progress	8	SDCard Used	25.69 GB	27.12 GB	7.83 GB	26.45 GB	24.39 GB	23.96 GB	72.05 GB	69.30 GB	8
	Power On Power Off		Power On Power Off	Power On Power Off	Power On Power Off	Message	SDCard Free	88.81 GB	87.38 GB	107 GB	88.05 GB	90.12 GB	90.55 GB	170 GB	45.20 GB	Message
	Port Reset		Port Reset	Port Reset	Port Reset	۳	CPU Load									ッ
	Fore Acout				Tore head	Parameters	CPU Temperature	30.974°C	31.551°C	32.077°C	31.242°C	33.888°C	30.794°C	31.2°C	31.84°C	Parameters
						View	CPU Frequency	2.99GHz	View							
						ĥ	CPU Scaling Rate	1.34	1.34	1.34	1.34	1.36	1.34	1.34	1.34	6
۲						Lock Screen	CPU Load Main Process	72	71	46	68	69	67	69	71	Lock Screen
						*										\$
			• 0	0 0		Settings						0 (0			Settings

New Features



Self-defined parameters

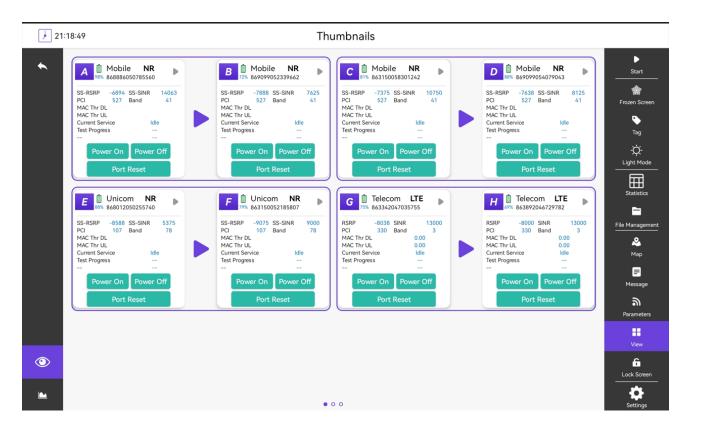


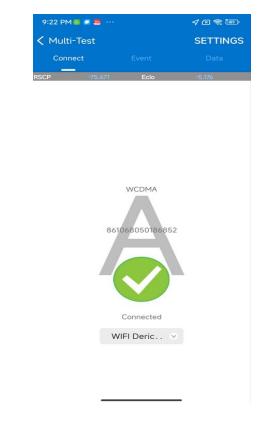
New Features

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Added Backpack without Controlling Chassis Solution

Without Controlling Chassis, only a tablet and test devices can complete tests.







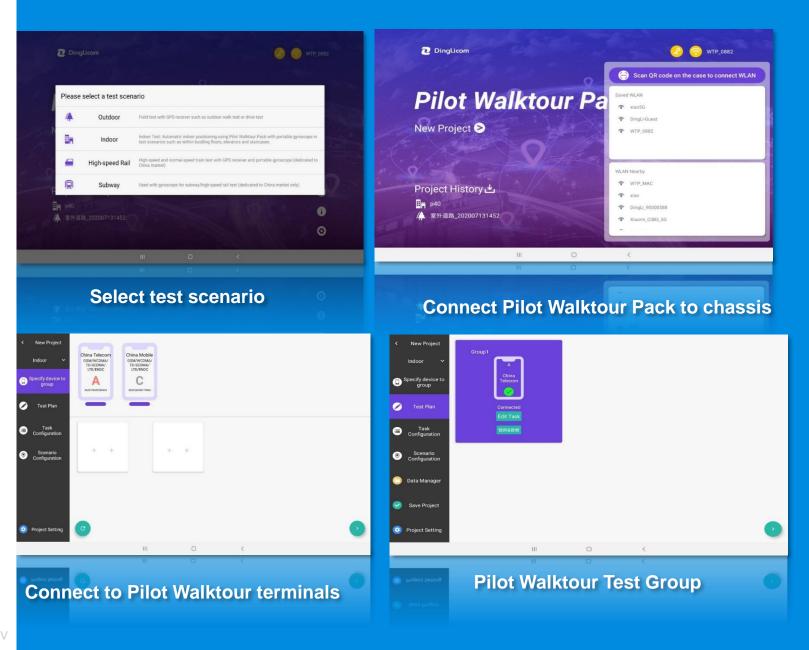
Specification



- Dimension (mm): 400*300*72mm
- Weight: About 3.05Kg
- Battery: 10.8V, 6800mAh*2
- OS: Windows
- CPU: Intel X86 processor
- GPS: EM1612
- Max. External Terminals: 14 handsets
- Data Transmission Mode: Wi-Fi
- Working Current: 5A (Max. with 19V external power supply
- Quick Charge: 2 hours (8 handsets with full charge)
- Plug Name: DC charger
- Working Temperature: -10°C to +40°C
- Storage Temperature: 45°C to +85°C
- Humidity: 93%RH, +40°C

New UI Design and Connection Mode

- Better visualization and user interaction
- Easier and smoother operation
- Quicker interface loading
- QR Code Connection: one code for one Pilot Walktour Pack case to avoid test interference
- Adjust WiFi channel to avoid intrafrequency interference
- Support multiple Android tablet models



High-Accuracy Auto Pinpointing



Pilot Walktour Pack supports automatic indoor positioning with a mini high-accuracy pinpointing device integrated with a gyroscope connected through Bluetooth.

Features:

- Applicable with various indoor test scenarios, e.g. airport, malls, office buildings, elevator, staircase, high-speed rail/subway etc.
- Positional accuracy deviation less than 0.3%



Use Case: Automatic Indoor & High-Speed Rail/Subway Pinpointing





Data Replay and Statistics Report



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	Data Files		≡	<												
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Map Map Parameters Open File	Langituda 113 55300340	LTE	Parameters	Voice CSFB												
	Longitude:113.55380249	Duplex Mode	2.00	HTTP												
		(L)Band	38.00	Ping-Traceroute												-
		(L)DL Freq(MHz)	2585.00	Voice 23G							_					
Replay Data File		DL BandWidth(MHz) 20.00									Rep	ort T	emp	late		
		ТМ	2.00	FTP					_		-		-			
		CodeWord	1.00													_
O		Special SubFrame Patterns	7.00													
		SubFrame Assignment Type	2.00													
		EARFCN UL	37900.00	Statis	stics Re	eports										
		EARFCN DL	37900.00			KPIA RAPOTA .XISK										
		(L)RSSI(dBm)	-67.31	2020-06-30	16:11:17											
		RSRQ(dB)	-10.19			PBM-Speedtest.xls										
		RSRP Rx0(dBm)	-97.50	2020-06-30	15:24:46											
		RSRP Rx1(dBm)	5.00						-							_
		SINR Rx0(dB)	4.50							_	_					
	or 14 44 15 11	SINR Rx1(dB) RSRQ Rx0(dB)	-10.19							St	tatis	tics R	lepo	ort Li	st	
11:16:42 = 11:19	30 19 99 10	RSRQ RXU(dB)	-10.19													
Message		Events														
16:41LTE_Cell_List	11:16:39Network Connect Star		+													
16:42LL1 PUCCH CSF log	11:16:40RRC Connection Requ	est		< .												
16:42LL1 PCFICH decoding results	11:16:40Prach: MSG1(RA)								_							
16:42LL1 PUCCH CSF log 16:42LL1 SRS Tx report		11:16:40Prach: MSG2(RAR) +				indover DL UL (coverage in	terference	Ping							
16:42LL1 PCFICH decoding results		11:16:40Prach: Msg3(UE ID) +				C D	E	F	G	н	1	J K	L	M	N	0
16:42LTE_DL_Thr		11:16:40Prach: Msg4 +				Basic Info	rmatior	1								
16:42RLC DL statistics	11:16:40RRC Connection Comp	11:16:40RRC Connection Setup Received 11:16:40RRC Connection Completed +														TTPDLA
16:42LTE_Cell_List				2	Total Tested To	calTested OutofServ	CutofService		DIDC Duration	DIDC Coverd	POL FTP			FTPOL FIL	FTPOL	
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Main Features

Various Services Test



Call	FTP Down					
FTP Up	HTTP Page					
HTTP Download	HTTP Upload					
WAP Page	WAP Download					
Email Send	Email Receive					
Ping	Idle					
Parallel Service	Video Play					
Speed Test	FaceBook					
Trace Route	Multi FTP Up					
Multi FTP Down	РВМ					



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You Tube
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Various test services are supported

- Voice services: CS Call, CSFB, VoLTE, VoNR, ViNR, EPS fallback
- 2. Data services: Ping, FTP UL/DL, HTTP Download, HTTP Page, WAP Page, WAP Download, Email Send, Email Receive, Trace route, Video Play, Facebook, Multi FTP Upload, Multi FTP Download, HTTP Upload, PBM
- 3. Scanner test:
- Supports R&S TSME6 for scanner test.
- Supported RATs include: 2G,3G,4G,NR
- Supported test services include Spectrum, cw and Pilot.

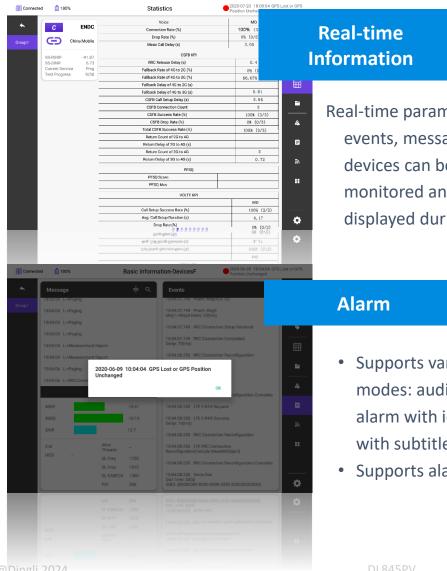
4. Others:

- Idle, Parallel test
- TCP/IP SNIFFER
- Loop test
- PPP disconnection modes control for data services

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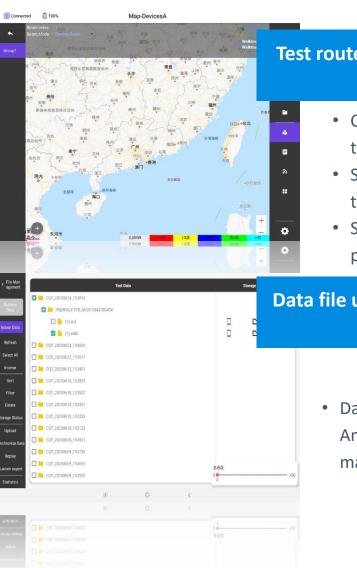
Monitoring and Data Management

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Real-time parameters, events, messages of all devices can be monitored and displayed during tests.

- Supports various alarm modes: audio alarm, alarm with icons, alarm with subtitle, etc.
- Supports alarm summary



Test routes displayed on Map

- Collects GPS data and display tracks in real time
- Support pin-pointing for indoor tests
- Support automatic indoor positioning test

Data file uploaded to the **iPad**

• Data files are uploaded to the Android tablet for management after testing.

VoNR test

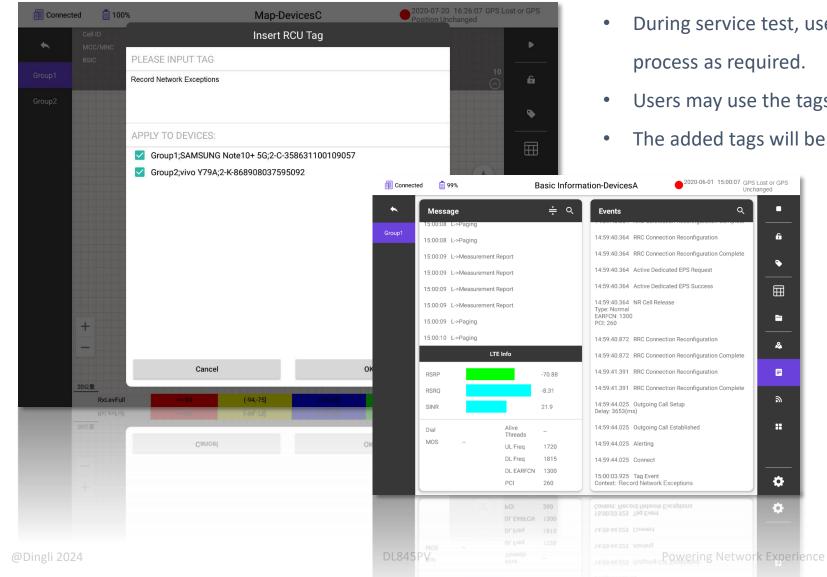


Messages & Events

*	Events Q	Events Q	stop	Message	<u>:</u> ۹	Message	<u></u>	stop
Group	NR ARFCN: 504990 21:38:40	Reportmerva: ms rzu ReportAMount: r1 21:38:25	Group Group	1:38:04 NR->PDU session modification complete		₹21:38:06 NR->CellGroupConfig		👘 Frozen Screen
1	21:38:40 NR Beam Change Complete BeamID: 1> 7	21:38:30 NR Beam Change Complete		1:38:04 NR->UL NAS transport		21:38:06 NR->RRCReconfigurationComplete		•
Group	NR PCI: 527 NR ARECN: 504990	BeamID: 5> 4 NR PCI: 527 NR ARFCN: 504990	Tag Group	₹21:38:04 NR->CellGroupConfig		₽21:38:06 NR->Service accept		Tag
2	21:38:40	21:38:30	-ໍ່C Light Mode	21:38:04 NR->RRCReconfigurationComplete		↓21:38:07 NR->Paging		¢.
Group 3	21:38:41 NR Beam Change Complete BeamID: 7> 1 NR PCI: 527	21:38:31 NR Periodic Measure ReportCells: 504990, 192; 504990, 22; 504990, 643; 504990, 609	Group 3	₹21:38:04 NR->DL NAS transport		↓21:38:07 NR->Paging		Light Mode
	NR ARFCN: 504990 21:38:41	Handover Type: Intra measid: 64	Statistics	₽21:38:04 NR->PDU session modification command		↓21:38:07 NR->Paging		Statistics
Group 4	21:38:41 NR Beam Change Complete BeamID: 1> 7	RelationType: Unknown Meas Latency: 25658(ms)	oup	1:38:04 NR->PDU session modification complete		↓21:38:07 NR->Paging		
	NR PCI: 527 NR ARFCN: 504990	rsType: ssb ReportInterval: ms120	File Managem	21:38:04 NR->UL NAS transport		↓21:38:07 NR->Paging		File Managem
	21:38:41 POLOA Result	ReportAMount: r1 21:38:31	Мар	21:38:04 NR->ULInformationTransfer		₽21:38:07 NR->Paging		🌺 Map
	POLQA Score SWB: 4.377 MeanDelay: 2169.621(ms)	21:38:32 POLQA Result POLQA Score SWB: 4.202	8	₹21:38:04 NR->Paging		21:38:07 IMS_SIP_INVITE->OK		=
	Direction: Downlink RecordFile:	MeanDelay: 2196.535(ms) Direction: Downlink	Message	₽21:38:04 NR->Paging		₹21:38:08 IMS_SIP_ACK		Message
	mos_2023-04-06_21-38-42_4.38_868886050785560.wav Jitter: 0.000232(ms)	RecordFile: mos_2023-04-06_21-38-32_4.20_869099052339662.wav Jitter: 0.000225(ms)	Parameters	➡ 21:38:04 NR->Paging		₹21:38:08 IMS_SIP_INVITE->Request		ි Parameters
	Source FileName: sample48k.wav RecordFileIndex: 0	Source FileName: sample48k.wav RecordFileIndex: 0		■ 21:38:05 IMS_SIP_INVITE		21:38:08 IMS_SIP_INVITE->Trying		
	StartTime: 21:38:30.008 EndTime: 21:38:42.084 21:38:41	StartTime: 21:38:32.0011 EndTime: 21:38:32.086	View	21:38:05 IMS_SIP_PRACK		21:38:08 IMS_SIP_INVITE->OK		View
	21:38:42 NR Beam Change Complete	21:38:32 21:38:33 NR Beam Change Complete	Lock Screen	₽21:38:05 IMS_SIP_PRACK		₽21:38:08 IMS_SIP_ACK		Lock Screen
	BeamID: 7> 1 NR PCI: 527 NR ARFCN: 504990	BeamID: 4> 5 NR PCI: 527	Settings	NR Info		NR Info	-+	Å Settings

Customize Test Process Tags





- During service test, users may add tags to mark the test process as required.
- Users may use the tags to perform a search on the data file.
- The added tags will be saved to corresponding data files

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Real-time Statistics



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Support real-time statistics for voice, FTP and other services during testing, and present information

such as the number of attempts, successes, and various scores.

Mobile NR			4		в	◆	A Mobile NR	Voice	MO	MT	MO	MT
A Mobile NR	VONR KPI	MO	MT	мо	MT		100% 868886050785560	Connection Rate (%)	100% (1/1)			100% (1/
SS-RSRP -7225 SS-SINR 14313	Call Setup Success Rate (%)	100% (1/1)			100% (1/1)	Grou	SS-RSRP -7356 SS-SINR 14688 PCI 527 Band 41	Drop Rate (%)	0% (0/1)			0% (0/1)
PCI 527 Band 41 MAC Thr DL	Avg. Call Setup Duration (s)	2.66			0.66	een 1	MAC Thr DL MAC Thr UL	Mean Call Delay (s)	2.66			0.66
MAC Thr UL Current Service MOC	Drop Rate (%)	0% (0/1)			0.88		Current Service MOC Test Progress 1/10			Δ		B
Test Progress 1/10 MOS 4.294	Drop Rate (%)	0% (0/1)			0% (0/1)	Grou		VOLTE KPI	мо	Тмт	мо	MT
Power On Power Off	POLQA	/	A Contraction of the second seco		В	2	Power On Power Off	Call Setup Success Rate (%)			110	
Port Reset	POLQA MOS	4.	28		4.27	^{de} Grou	Port Reset	Avg. Call Setup Duration (s)				
Poit Reset	Total POLQA MOS Samples	1	2		13	3		Drop Rate (%)				+
B Mobile NR	POLQA MOS>=3.5 Samples	1	2		13	s	B Mobile NR					
73% 869099052339662	Rate of POLQA MOS>=3.5 Samples	10	00		100	ou		Radio Parameters		A	A	
SS-RSRP -8625 SS-SINR 5438 PCI 527 Band 41	POLQA Latency Mean	218	7.03	2	198.88	4	PCI 527 Band 41		最大	最小	平均	最大
MAC Thr DL MAC Thr UL					P	ment	MAC Thr DL MAC Thr UL	Jitter	19.0	0.0	6.37	19.0
Current Service MTC	CSFB KPI	MO	MT	мо	MT	- & _{Map}	Current Service MTC Test Progress 1/10	Delay	51.0	0.0	34.71	50.0
Test Progress 1/10 MOS 4.268	RRC Release Delay (s)	MU	MI	MO	MI		MOS 4.268	Packet Loss Rate	0.0	0.0	0	13.79
Power On Power Off							Power On Power Off		A			B
Port Reset	Fallback Rate of 4G to 2G (%)					e	Port Reset	EPS Fallback	MO MT			
Port Reset	Fallback Rate of 4G to 3G (%)							ED0 E III. I O	MO	MI	MO	MI
	Fallback Delay of 4G to 2G (s)					rs		EPS Fallback Success Rate (%)				
	Fallback Delay of 4G to 3G (s)							EPS Call Drop Rate (%)				
	CSFB Call Setup Delay (s)							Avg. EPS Call Setup Duration(s)				
	CSFB Connection Count									A	В	
	CSFB Success Rate (%)					en		VONR KPI	MO	MT	MO	MT
	CSFB Drop Rate (%)				X			Call Setup Success Rate (%)	100% (1/1)			100% #
	Total CSFB Success Rate (%)							Avg. Call Setup Duration (s)	266			0.66



VALKTOUR 5

Supported Terminals

Compatibility

Supported Android-based terminals:

Device	Operating System	Model
Controller	Android Tablet	Samsung S Series HUAWEI Tab Or an Android tablet the same size as the screen
	HiSilicon	HUAWEI P40 HUAWEI P40 pro HUAWEI MATE40 HUAWEI MATE40E pro
Test Phones	Qualcomm	Samsung Galaxy S24/S23/S22/S21 Xiaomi 14/14pro Xiaomi 13/13 Pro Xiaomi 12S



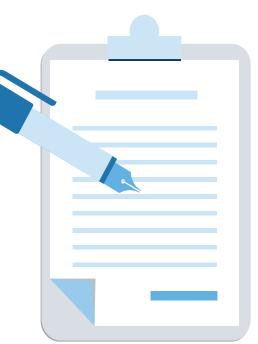
PIOT WALKTOUR 6 ^s x PACK

Conclusion

Benefits

Product Advantages

- Portable, managed by one
- engineer for benchmarking tests
- Small and easy to operate
- Built-in battery for continuous testing
- Built-in high-performance GPS



Business Values

- Provide comprehensive and authentic user perception.
- Fast and efficient network measurement
- Significant reduction in labor costs
- Stable operation and high efficiency

Dinglicom

Customer Base





Thank you for your support!





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