



Tetley Hydra

2G/3G/4G/5G Network Characterization and Non-Alerting Handset Stimulation

FEATURES

- Embedded Linux computer
- Web-based GUI
- Wireless access point for remote command and control
- Integrated Gigabit Ethernet port for wired access and control
- Front USB 3.0 ports (2) for connecting included THKs and rapid exporting logs.

KIT CONTENTS

- Custom Fitted Pelican Case
- 2x Tetley Handy Kits
- AC/DC Power Supply
- 2x Adjustable Phone Stands
- 2x USB-C to USB-A Fast Chargers
- Ethernet Cable (10ft)
- 32GB USB 3.0 Recovery Flash Drive

APPLICATIONS

- Advanced Cellular Network Characterization (with active SIM)
 - Multiple MNOs simultaneously
 - Multiple RATs simultaneously (of same MNO)
- Handset Characterization
 - Handset Stimulation w/ Scheduling
 - Handset Correlation *requires connected collection system
 - Handset Status

DESCRIPTION

Utilizing G3 Technologies' proprietary Non-Alerting Techniques (NAT), the TETLEY HYDRA allows an operator to perform precise network characterization on cellular networks. The included Tetley Handy network survey handset(s), when equipped with a mobile network operators' (MNO) SIM card, achieve accurate network measurements. Precision analysis of the networks allow the user to better place, task, and employ data gathering resources. For Law Enforcement (LE) users, the TETLEY HYDRA greatly enhances their ability to employ CALEA data, including Penlink.

By applying carefully planned and effective NATs, the timing of targeted updates is now in the users' hands. Because the system is utilizing G3Ts expertise in cellular technology via the Tetley Handy, users can rest assured all messaging and analysis is compliant with 3GPP's specifications of 2G/GSM, 3G/UMTS, 4G/LTE, and the rapidly advancing 5G New Radio (NR) standards. The included Tetley Handy phones may be utilized to perform advance network characterization on different MNO's simultaneously, and can support up to 4 attached Tetley Handy phones.

BANDS

5G

BAND 1- FDD IMT 2100
 BAND 2- FDD PCS 1900
 BAND 5- FDD CLR 1800
 BAND 12 - FDD 700
 BAND 25 - FDD EPCS1900
 BAND 28 - FDD APT 700
 BAND 41 - TDD BRS 2500
 BAND 66 - FDD 17/2100 EAWS
 BAND 71 - FDD DD 600
 BAND 77 - TDD C 3700
 BAND 78 - TDD C 3500
 SA/NSA/SUB6

LTE

BAND 1 - FDD IMT 2100
 BAND 2 - FDD PCS 1900
 BAND 3 - FDD DCS 1800
 BAND 4 - FDD AWS1 1700
 BAND 5 - FDD 850
 BAND 7 - FDD IMT-E 2600
 BAND 8 - ESGM 900
 BAND 28 - FDD APT 700
 BAND 40 - TDD S-BAND 2300

UMTS

BAND 1 - 2100
 BAND 2 - 1900
 BAND 5 - 850
 BAND 8 - 900

GSM

BAND 2 - PCS 1900
 BAND 3 - DCS 1800
 BAND 5 - PCS 850
 BAND 8 - EGSM 900

SIMs: 2

IMSI	Slot #	PhoneNumber	Preferred Mode
310410193532068	13	17275195737	Automatic
310260424242476	10	15712017564	Automatic

Modems: 2

1	2
SIM Assignment: Slot 13	SIM Assignment: Slot 10
IMSI: 310410193532068	IMSI: 310260424242476
Status: Network Registered	Status: Network Registered
N/W Status: Registered Home	N/W Status: Registered Home
N/W: AT&T / LTE	N/W: T-Mobile / LTE

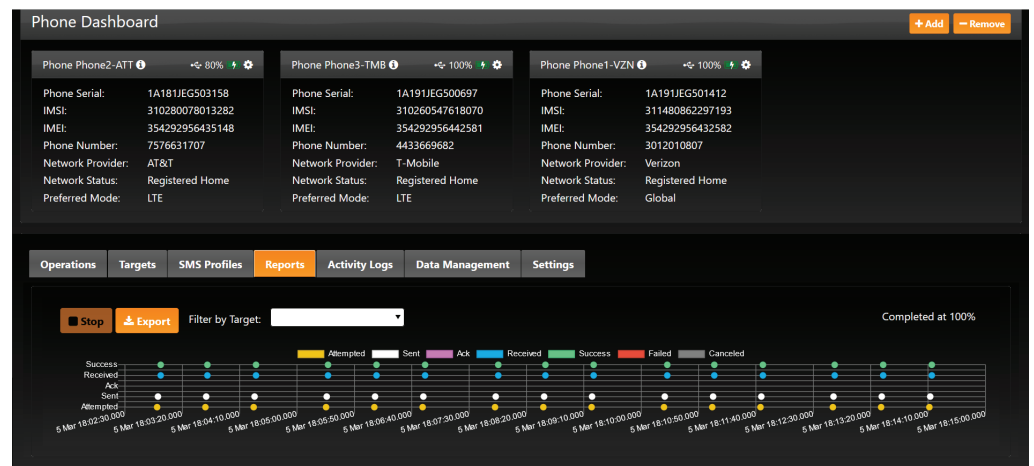
N/W Characterization | Stimulation | Advanced N/W Characterization

100% Complete

From -> To	SYNC ML	MWIG EMAIL	SSMI VOICE	WAP PUSH	SSMI FAX	MWIG VOICE	TYPE 0	MWIG OTHER	SSMI OTHER	CORRUPT	SSMI EMAIL	NORMAL	MWIG FAX
13 -> 13	Delivered*	Success	Delivered*	Success	Failed	Failed	Failed	Failed	Failed	Failed	Failed	Failed	Failed
10 -> 13	Success	Failed	Delivered*	Failed	Failed	Failed	Failed	Failed	Failed	Failed	Failed	Failed	Failed
13 -> 10	Success	Delivered*	Success	Success	Failed	Failed	Failed	Failed	Failed	Failed	Failed	Failed	Failed
10 -> 10	Success	Success	Success	Success	Failed	Success	Failed	Failed	Failed	Failed	Success	Failed	Success

Possibly Alerting

HYDRA Network Characterization Interface



HYDRA NATs Stimulation Report

*Bands supported depend on the carrier and the model of the phones being used with the HYDRA

SPECIFICATIONS

Size	4.6"W x 4.4"L x 2"H
Weight	~3 lbs (including phones)
Power	Wide input DC supply range (10-28V) 19W nominal, 64W peak with 2 phones