SHYAM

VNL

BIS
Border Intelligence Solution for Border Security

Designed & Made in India

Cross Border Security is a main Challenges Across the Borders for the forces. There are some Hostile Neighbors & Friendly Neighbors Inside India in Sensitive Areas.

Shyam VNL provides End to End Solutions for Identification, Search and Location trace of terrorists, extremists, and unwanted elements. Shyam VNL has vast experience in building information gathering solutions for law enforcement agencies and has extensive technological background in RF CYBER control analytics and reporting. The only system that produces unique identities with Advanced analytics and alerting with the management system. The system can be installed at border checkpoint and cross- referenced with existing sensors such as LPR's, cameras, radars, etc.
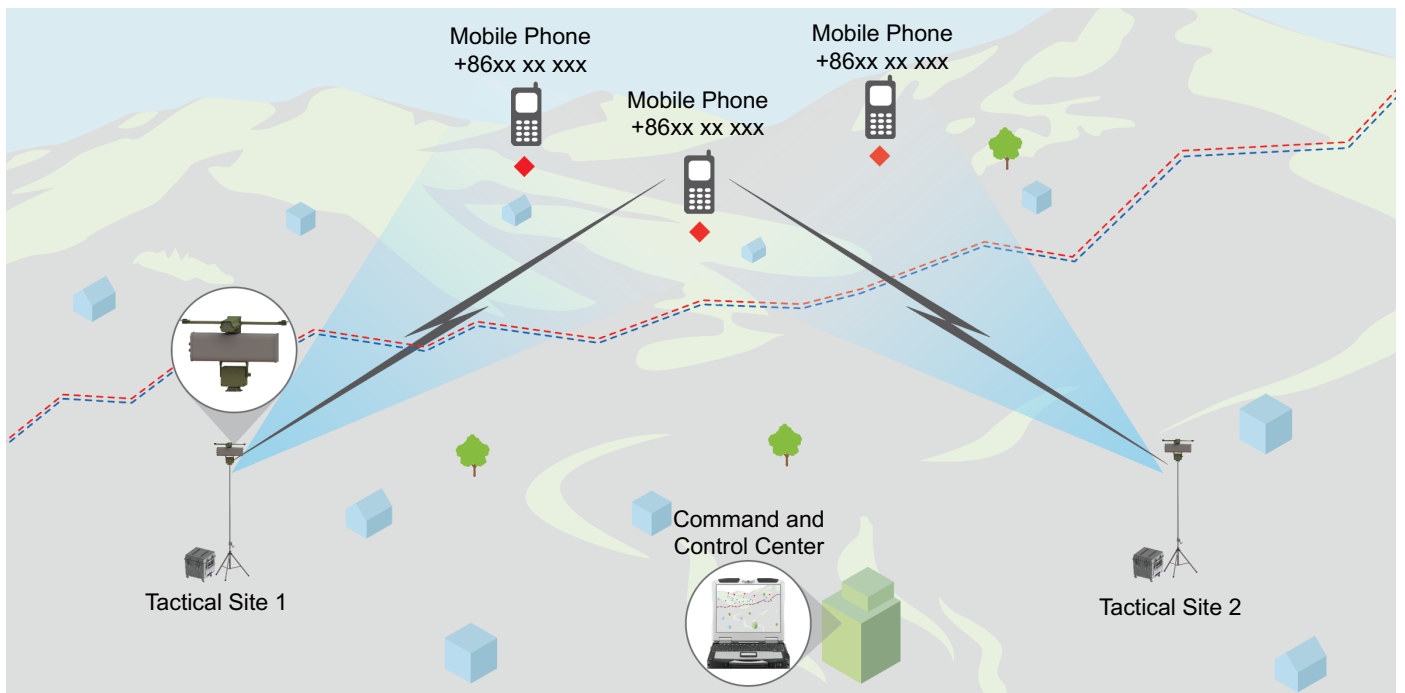
Detection & Identification

The solution is an intelligence processing platform which consolidates mobile signal intelligence information to allow authorities to detect, monitor, profile, track and analyse users' behaviour, location, and trends. It allows analysis of a single user as well as groups of users at the location where system is installed. This gives the authorities unique ability to perceive movements and behaviours around border points.
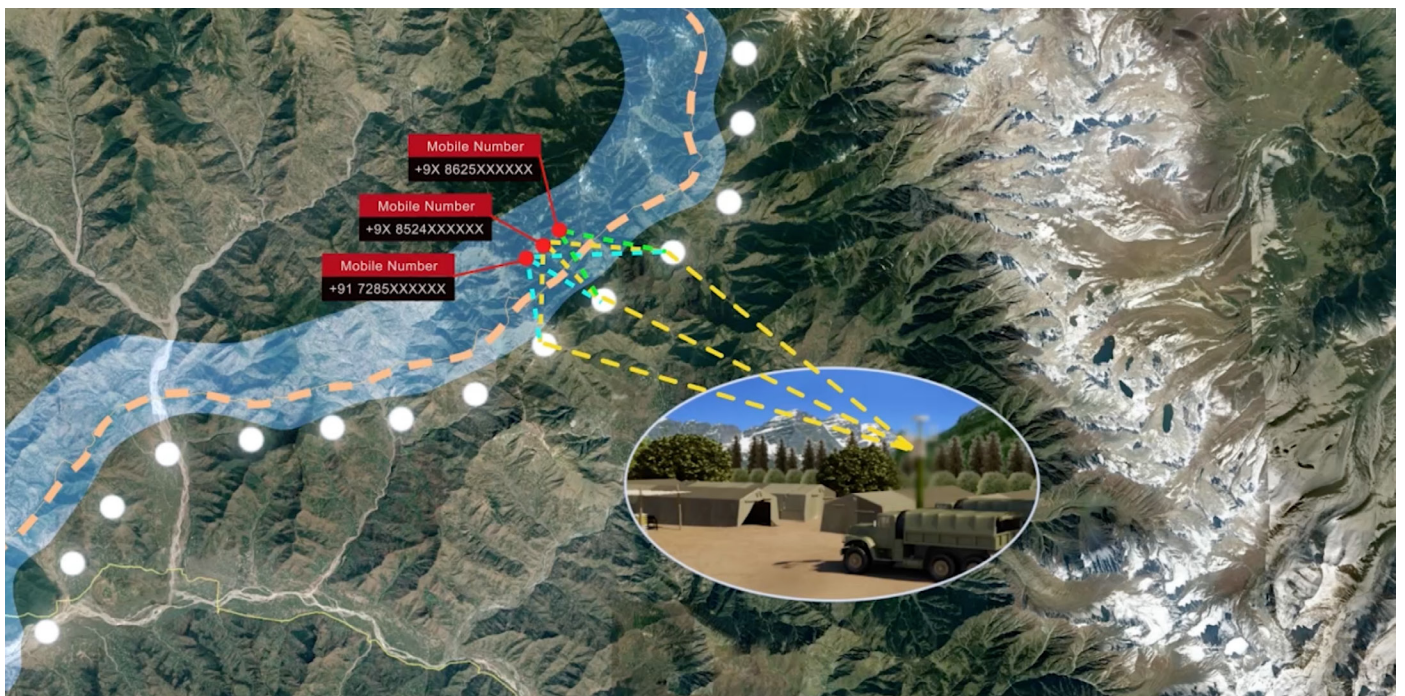
BENEFITS

- Conceived, Designed and Manufactured in India
- All IPR's SW, HW owned by Shyam VNL
- Identify & report all mobile phones in target area
- Supports all technologies 2G/3G/4G
- Optional Wi-Fi, 5G & New frequency bands

HIGHLIGHTS

- Ensures 100% Denial & detection of Mobile phones
- Selective blocking of mobile subscribers based on White/Blacklists
- Systems are easy to plan, deploy, operate & remotely managed
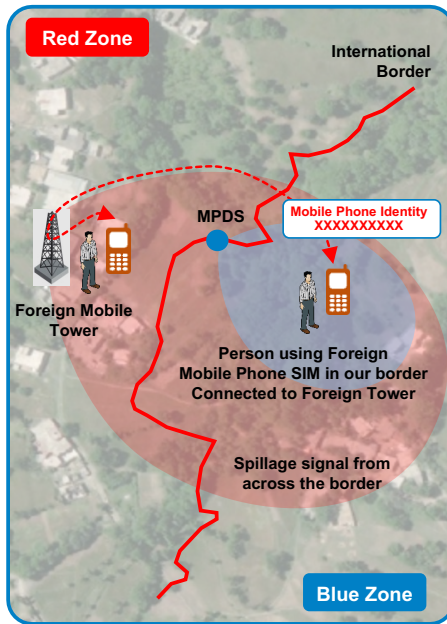- Real-time monitoring of mobile phone location

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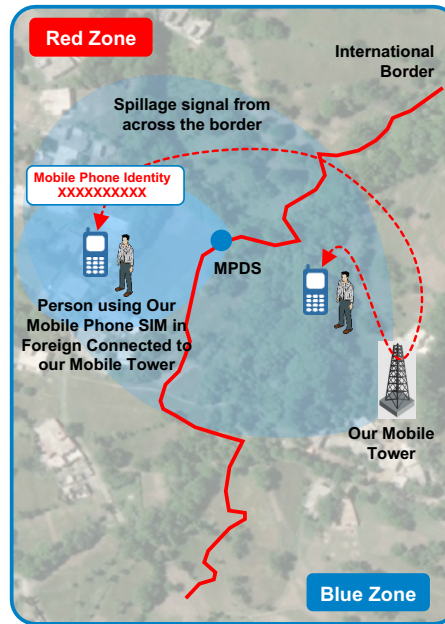
Tactical Solution Deployment

Fixed Solution Deployment

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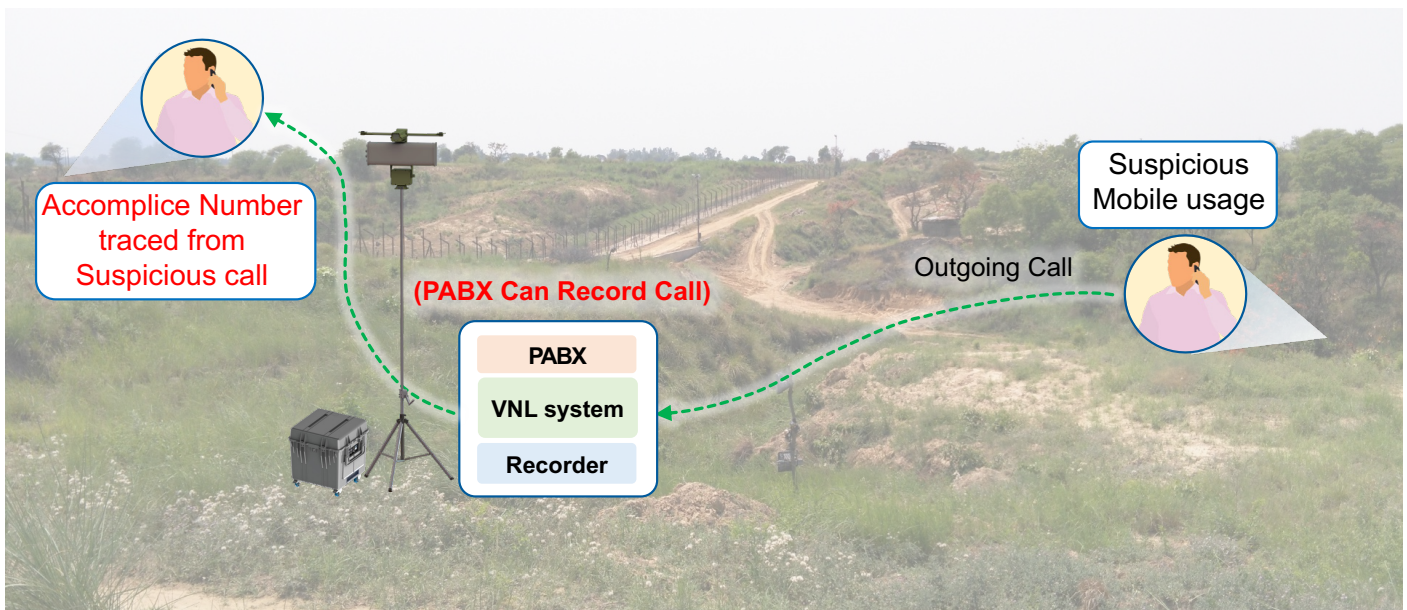
Detection of Foreign Phones Operating inside our Border

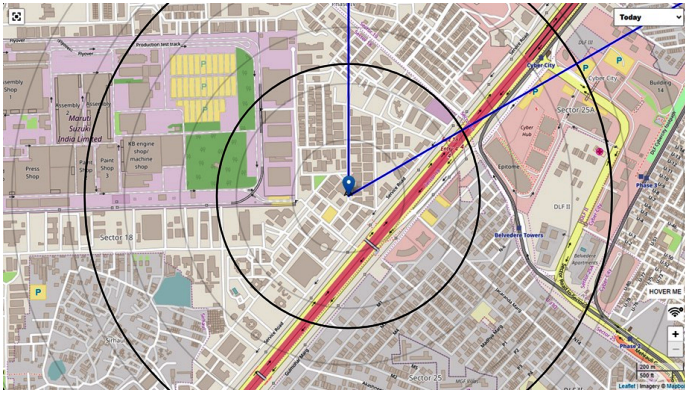**Detection of our Mobile Phones Operating Across the Border**

Cross Border Intelligence Collection

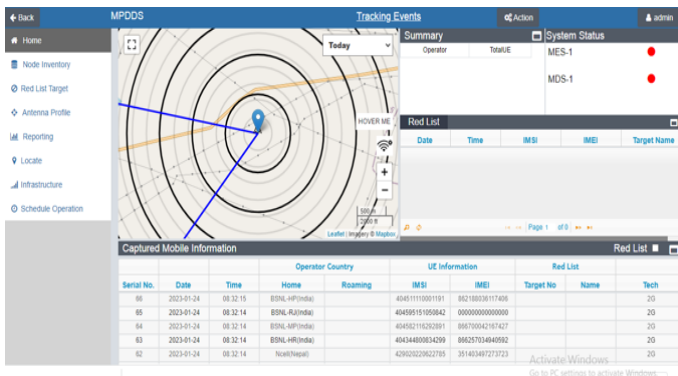|	From	>To	>To	>To	>END	Remarks
1	**Suspicious Handset**	Dialled Out No	Fwd > Wireless IP Ext	PBX	Outgoing Call	Direct PBX Call
2	**Outgoing Call**	Traced	Calling Number	ID Capture	Call Recorded	Event Alarm

Outgoing Call / SMS for Intelligence collection

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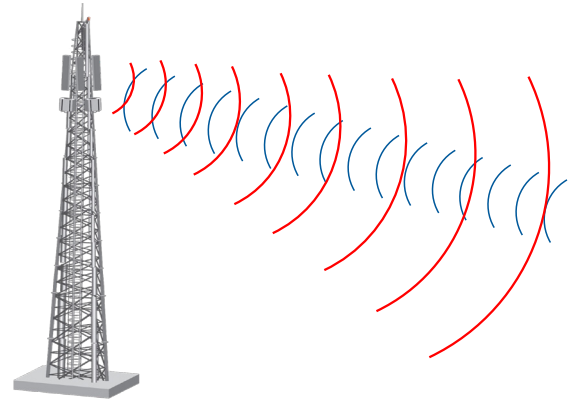
Step 1 - System Mode of Operation

This system will register ALL available mobile phones in the vicinity, under it's coverage area. The system automatically produces first-mile mass location data regarding any registered subscriber. This device's location is monitored in real-time throughout the operation and can be subsequently reviewed.

Step 3 - System Mode of Operation

The system can export collected data, such as target identities, locations, etc., to remote devices or external sources, via a secure connection, for correlation of data and advanced analysis to create high value intelligence. The system also provides interception capabilities of voice, SMS and data of acquired devices.

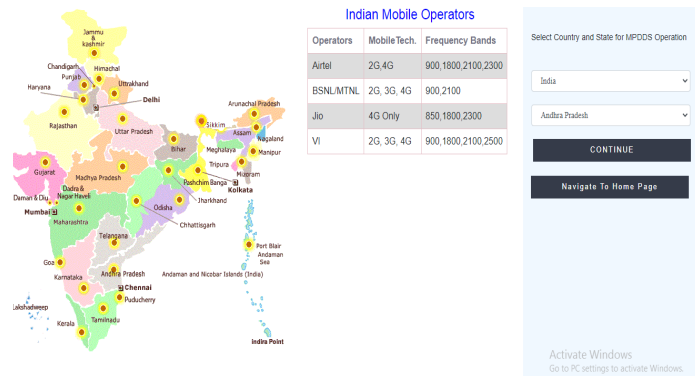## Step 2 - System Mode of Operation

Once the system identifies that an entity entered the alert zone, the operator can investigate and monitor it or send a tactical team to apprehend it.

Operators can pre-program text messages which can be sent to specific subscribers as warranted via the public cellular network – i.e., warning of potential threats, security zone intrusions, etc.

Step 4 - Centralized Monitoring System (CMS)

The CMS system shows the overlaying sensors & surveillance zones on digital and satellite maps. This Mapping and tracking of any target's device will be in real time. CMS has Built-in response procedures, decision support algorithms & training simulator also it supports communication with vehicles and portable command and control/ Headquarters devices.

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TOLL PLAZA, CUSTOM CHECK POST, IMMIGRATION POST AT AIR, LAND & SEA PORTS

1. Register incoming and outgoing people or goods.

2. Real-time Detection, tracking & Identification.

3. Pre-emptive alerts to border agencies if a flagged person or vehicle is detected.

4. Detecting the persons, while crossing: Custom Check post, Indo Pak, Indo Nepal, Indo Bhutan, Indo Myanmar & Temporary check post.

5. The Mobile identity of the passengers is captured.

Border: Sample Deployment

THE PROCESS FLOW

1. **Mobile Device ON**

2. **Detection & Analysis**

3. **Identity Capture (IMSI, etc)**

4. **Analytics on Identity, Meta-data etc**

5. **Event/ Alert / Dashboard with Forwarding**

SYSTEM REAL-TIME REPORT SAMPLE

Detected Mobile Information					Blacklist	☐ ―
Date	**Time**	**Operator**	**IMSI**	**IMEI**	**Target**	**Tech**
xx-xx-xx	10:10:12	BSNL-HR (India)	40468550861XXXX	86256303645XXXX	Detected	2G
xx-xx-xx	10:34:28	Airtel-DL (India)	40410053342XXXX	NA	Detected	4G
xx-xx-xx	11:54:18	Etisalat (Nigeria)	42402101326XXXX	35425581605XXXX	Detected	2G
xx-xx-xx	13:02:20	VI-DL (India)	40411220178XXXX	35332010073XXXX	Officer 1	2G
xx-xx-xx	13:02:30	Airtel-DL (India)	4041005471XXXX	35693709733XXXX	Detected	2G
xx-xx-xx	13:03:20	JIO-DL (India)	40587208895XXXX	NA	Detected	4G

xxxxx	Detected _illegal_ Phones of Indian Operators
xxxxx	Detected _illegal_ Phones of **Foreign** Operators
xxxxx	Detected Phones of **Authorized Officials**
xxxxx	New entrant

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For further information visit our website www.shyamvnl.com

CORPORATE HEADQUARTER
Shyam VNL Private Limited
21-22, Phase IV, Udyog Vihar
Gurgaon 122 015, Haryana, INDIA
Tel +91 124 265 7600

http://www.shyamvnl.com