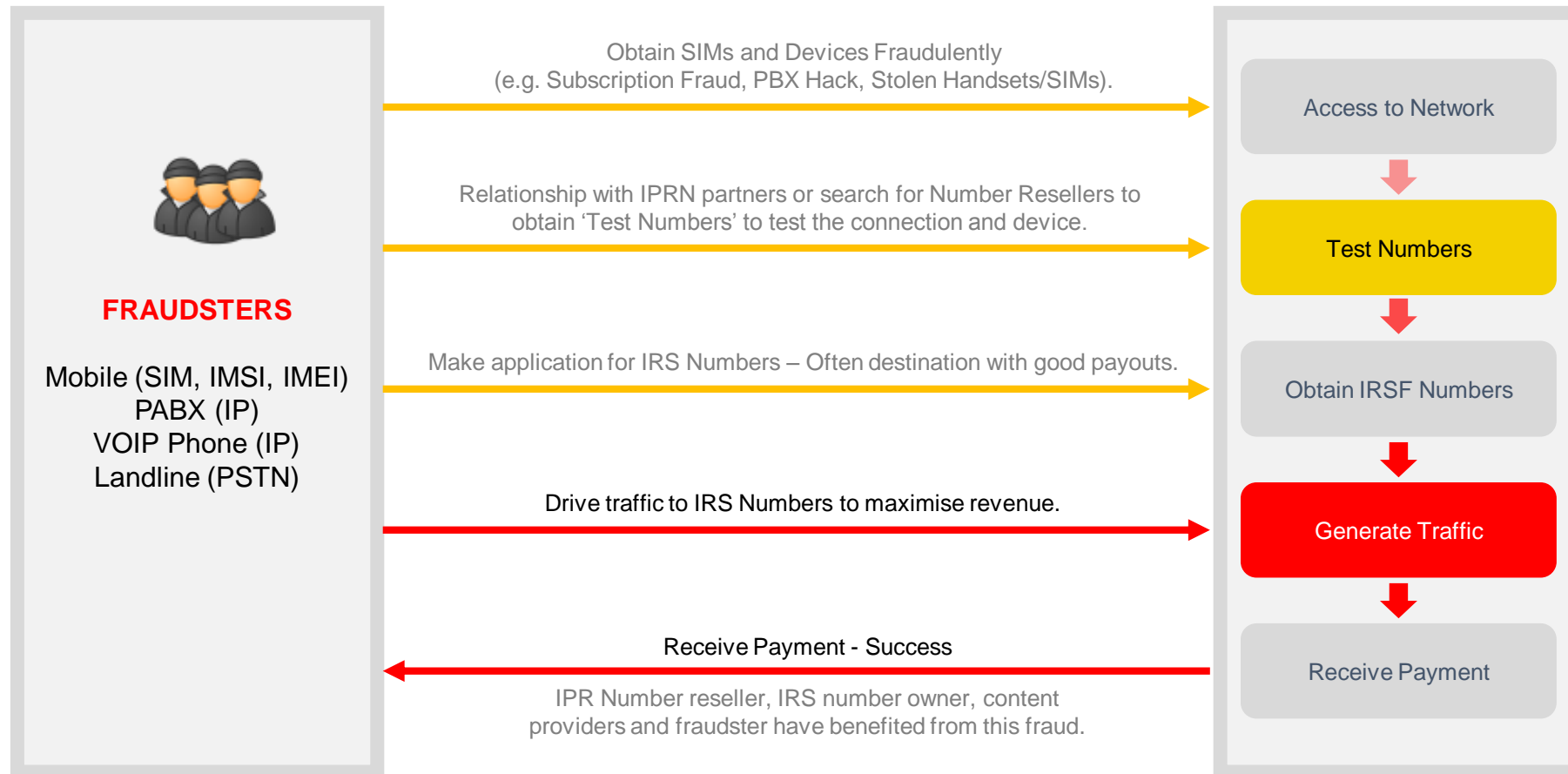


International Revenue Share Fraud *Prism Client* – An Introduction



IRSF accounts for about \$1.8 billion in losses (CFCA*).
IRSF fraud is perpetrated relatively easily.



* Source: CFCA Global Fraud Loss Survey 2013.



Yates Fraud Consulting and FRS Labs created PRISM in 2013 – a pioneering database to tackle IRSF fraud.



No technology overheads. **A simple and secure cloud database.**
Subscriber set up in few seconds.



Over 100,000 Test Numbers in PRISM. 130+ number resellers assessed. **Numbers updated every 4 weeks.**



Simple to use. **No training required.** Subscription comes with **complete support and expert advice.**



One low subscription fee per year. ROI of several folds by stopping just a few IRSF attacks.



The same team has now created **PRISM Client** – A perfect solution to stop IRSF attacks.

Features at a glance.

Detection

PRISM Client has the ability to inspect Call Data Records to identify IRSF attacks in real time.

Analysis

Sophisticated data analytics using the PRISM Database combined with a user friendly smart rules filter to determine impending IRSF attacks.

Workflow

Allows the Analysts to take prompt action to stop IRSF attacks through a simple web based graphical user interface.

Reports & Automation

Pre defined reports to monitor Test Numbers, IRSF alarms, analyst performance and false positives. Automatic number synchronization with PRISM Database.



PRISM Client complements PRISM Database perfectly.
New numbers synched automatically.

The screenshot displays the PRISM Client interface. At the top, there is a navigation bar with icons for Home, Admin, Feedback, Dashboard, Help, and Logout. The PRISM logo is in the top right corner. Below the navigation bar, the interface shows '115 Total Records' and '13/04/2015 17:49:56 Last Update'. There are tabs for 'Test Numbers', 'Test Call Alarms', 'IRSF Alarms', and 'Create Alarms'. A 'Quick Search' box is also present. The main content is a table with the following columns: 'Terminating Country', 'Test Number', 'First Advertised Date', and 'Latest Update Date'. The table lists 19 records, with the first record being from Brazil and the rest from Oman. A vertical label 'IRSF Test Numbers' is positioned to the left of the table. At the bottom of the table, there is a pagination control showing 'Page 1 of 2'.

	Terminating Country	Test Number	First Advertised Date	Latest Update Date
1	Brazil	87343424234	13/04/2015	13/04/2015
2	Oman	96821462994	20/01/2014	20/01/2014
3	Oman	96828535946	20/01/2014	20/01/2014
4	Oman	968899630	09/04/2014	09/12/2014
5	Oman	968911296000	20/01/2014	10/02/2015
6	Oman	968911296030	20/01/2014	20/01/2014
7	Oman	96891535902	20/01/2014	20/01/2014
8	Oman	96892010010	20/01/2014	10/02/2015
9	Oman	96892040000	20/01/2014	03/01/2015
10	Oman	96892040002	09/12/2014	10/02/2015
11	Oman	968924529000	20/01/2014	10/02/2015
12	Oman	968924529020	20/01/2014	20/01/2014
13	Oman	968924529140	20/01/2014	20/01/2014
14	Oman	96892552850	20/01/2014	20/01/2014
15	Oman	96892761000	20/01/2014	20/01/2014
16	Oman	96892761416	09/12/2014	09/12/2014
17	Oman	96892761458	03/01/2015	03/01/2015
18	Oman	96892761466	10/02/2015	10/02/2015
19	Oman	96892761505	20/01/2014	20/01/2014

New numbers added regularly to PRISM cloud database will be synchronised to PRISM Client in real time. No manual effort needed to download the numbers periodically.



Once CDR data is mapped to PRISM Client, it will start generating IRSF alarms – in real time.

The screenshot shows the PRISM interface for 'Test Call Alarms'. The top navigation bar includes icons for Home, Admin, Feedback, Dashboard, Help, and Logout. Below the navigation bar, there is a 'Total Records' indicator showing 444 records. A search bar is present on the right. The main content area is a table with the following columns: 'IRSF Test Number', 'Terminating Country', and 'Date Added'. The table contains 19 rows of data, all with 'India' as the terminating country and '10/02/2015' as the date added. A vertical label 'Test Call Alarms' is positioned on the left side of the table. At the bottom of the table, there is a pagination control showing 'Page 1 of 5'.

	IRSF Test Number	Terminating Country	Date Added
81	8098427024	India	10/02/2015
82	8108160562	India	10/02/2015
83	8128646710	India	10/02/2015
84	8145042572	India	10/02/2015
85	8187921525	India	10/02/2015
86	8277334120	India	10/02/2015
87	8285287487	India	10/02/2015
88	8285318903	India	10/02/2015
89	8285658285	India	10/02/2015
90	8286376820	India	10/02/2015
91	8287872685	India	10/02/2015
92	8322640351	India	10/02/2015
93	8348316112	India	10/02/2015
94	8375067066	India	10/02/2015
95	8375852659	India	10/02/2015
96	8377009795	India	10/02/2015
97	8377878668	India	10/02/2015
98	8390299282	India	10/02/2015
99	8390328222	India	10/02/2015

PRISM can access any existing CDR source (e.g. your existing FMS or Data Warehouse) or take a flat file feed directly off Mediation into PRISM Client.



Test Call Alarms will give the Analysts a head start to determine imminent IRSF attacks.

Test Call Alarms

PRISM

444 Total Records

Test Numbers | Test Call Alarms | IRSF Alarms | Create Alarms

Quick Search

IRSF Test Number	Terminating Country	Date Added						
81 -	8098427024	India	10/02/2015					
	A-NO	IMSI	IMEI	Call Date	Call Time	Call Type	Total Calls	Duration
	9585867221	404437032180309	353298062007570	10/02/2015	00:00:00	1	1	48
	9585867221	404437032180309	353298062007570	10/02/2015	00:00:00	1	2	96
	9585867221	404437032180309	353298062007570	10/02/2015	00:00:00	1	3	144
	9585867221	404437032180309	353298062007570	10/02/2015	00:00:00	1	4	192
	9585867221	404437032180309	353298062007570	10/02/2015	00:00:00	1	5	240
	9585867221	404437032180309	353298062007570	10/02/2015	00:00:00	1	5	240
	9585867221	404437032180309	353298062007570	10/02/2015	00:00:00	1	6	288
	9585867221	404437032180309	353298062007570	10/02/2015	00:00:00	1	7	336
82 +	8108160562					India		10/02/2015
83 +	8128646710					India		10/02/2015
84 +	8145042572					India		10/02/2015
85 +	8187921525					India		10/02/2015
86 +	8277334120					India		10/02/2015
87 +	8285287487					India		10/02/2015
88 +	8285318903					India		10/02/2015
89 +	8285658285					India		10/02/2015

Page 1 of 5

The test call (a number in the PRISM Database) is usually a call placed by a potential fraudster to check if the SIM and the device in possession are able to connect to a said destination advertised by the IRS Provider.



IRSF Alarms will indicate the beginning of an IRSF attack, allowing Analysts to take action.

The screenshot shows the PRISM interface for IRSF Alarms. At the top, there are navigation icons for Home, Admin, Feedback, Dashboard, Help, and Logout. The main header displays '17,680 Total Records' and a 'Quick Search' bar. Below this is a table with columns: A-NO, IMEI, IMSI, Call Date, Call Time, Call Type, Call Direction, Call Duration, Cell ID, Test No Dialed, and Time Since Test. The table contains 27 rows of data, showing various call records with their respective identifiers and timestamps.

	A-NO	IMEI	IMSI	Call Date	Call Time	Call Type	Call Direction	Call Duration	Cell ID	Test No Dialed	Time Since Test
9	9920017176	359918041161820	404201180765379	19/02/2015	00:00:00	1	MO	2193		9619326713	22:40:12
10	9920017176	359918041161820	404201180765379	19/02/2015	00:00:00	1	MO	2193		9619326713	22:40:12
11	9920017176	359918041161820	404201180765379	19/02/2015	00:00:00	1	MO	2193		9619326713	22:40:12
12	9711410816	357021040108080	404118102724829	25/02/2015	00:00:00	1	MO	2117		9758713860	21:20:05
13	9711410816	357021040108080	404118102724829	25/02/2015	00:00:00	1	MO	2117		9758713860	21:20:05
14	9711410816	357021040108080	404118102724829	25/02/2015	00:00:00	1	MO	2117		9758713860	21:20:05
15	9711410816	357021040108080	404118102724829	25/02/2015	00:00:00	1	MO	2117		9758713860	21:20:05
16	9711410816	357021040108080	404118102724829	25/02/2015	00:00:00	1	MO	2117		9758713860	21:20:05
17	9811640206	351982061823600	404119103606652	17/02/2015	00:00:00	1	MO	2105		9999842385	00:02:13
18	9811640206	351982061823600	404119103606652	17/02/2015	00:00:00	1	MO	2105		9999842385	00:02:13
19	9811640206	351982061823600	404119103606652	17/02/2015	00:00:00	1	MO	2105		9999842385	00:02:13
20	9811640206	351982061823600	404119103606652	17/02/2015	00:00:00	1	MO	2105		9999842385	00:02:13
21	9811640206	351982061823600	404119103606652	17/02/2015	00:00:00	1	MO	2105		9999842385	00:02:13
22	9920017176	359918041161820	404201180765379	25/02/2015	00:00:00	1	MO	2091		9619326713	01:44:41
23	9920017176	359918041161820	404201180765379	25/02/2015	00:00:00	1	MO	2091		9619326713	01:44:41
24	9920017176	359918041161820	404201180765379	25/02/2015	00:00:00	1	MO	2091		9619326713	01:44:41
25	9920017176	359918041161820	404201180765379	25/02/2015	00:00:00	1	MO	2091		9619326713	01:44:41
26	9920017176	359918041161820	404201180765379	25/02/2015	00:00:00	1	MO	2091		9619326713	01:44:41
27	9811640206	351982061823600	404119103606652	17/02/2015	00:00:00	1	MO	2055		9999842385	00:03:02

The attack usually follows a short time after a Test Call is placed. PRISM Client looks for devices used for testing IRS numbers, analyse overlapping or multi-party calls from one A-NO, long duration calls from one A-NO etc.



The smart rules filter allows Analysts to define expert rules to analyse high risk cases instantly.

The screenshot displays the 'Add New Alarms' interface in the PRISM system. The interface includes a navigation bar with icons for Home, Admin, Feedback, Dashboard, Help, and Logout. Below the navigation bar, there are tabs for 'Test Numbers', 'Test Call Alarms', 'IRSF Alarms', and 'Create Alarms', along with buttons for 'Add New Alarm' and 'Run All'. The main form is titled 'Add New Alarms' and is divided into several sections:

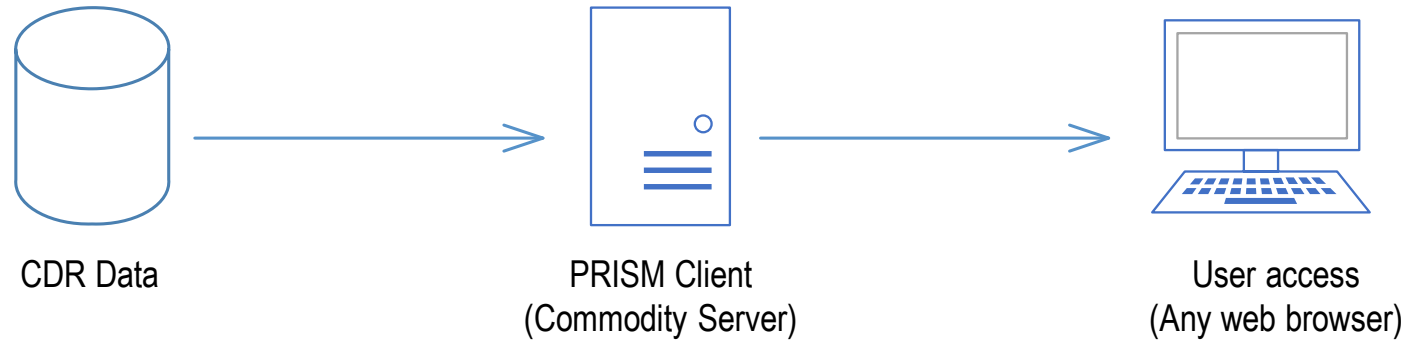
- Alarm Details:** Includes fields for 'Alarm Name' (Time Since Test Call), 'Alarm Description' (All Calls from A-NO to Latvia since 45 mins of dialing Test Number), and 'Alarm Type' (IRSF Alarms).
- Alarm Conditions:** Features a radio button for 'All' and a list of conditions:
 - Time Since Test: Equal to 45 Minute
 - AND Call Duration: Greater than 10 Minute
 - AND Terminating Country: Equal to Latvia
- Perform the following actions for the above Conditions:** Includes a dropdown for 'Generate Alarm' and a 'Set Priority' dropdown set to 'High'.

The smart rules work on top of the in-built algorithm to prioritise IRSF alarms. Using a combination of input fields, Analysts can ensure that the right alarms are fetched and high risk cases dealt with immediately.

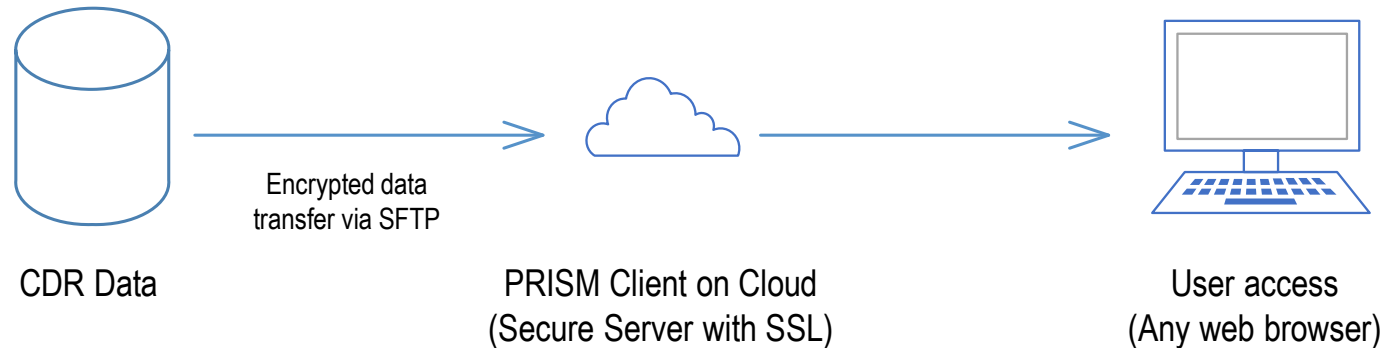


PRISM Client can be set up at your premises or hosted on our secure cloud server.

On Premise



On Cloud



We can provide you with a full hardware spec based on your data volumes. If you already have an FMS, PRISM Client can complement by using the same data sources.



Benefits of PRISM *Client*.

Protect against
IRSF attacks.

PRISM Database along with sophisticated data analytics and smart rules will identify most IRSF attacks before it can cause greater damage.

Reduce Manual
Effort.

Automatic synchronizations saves time and effort from manually downloading the IRSF Test Numbers from PRISM Database.

Start operations
quickly.

With one low subscription fee and an option to host the entire service on the cloud, you can get started quickly.

No resources,
No worries.

Fully managed service to manage your entire IRSF operations and alarm monitoring services 24/7/365.

Thank You

colin@yatesfraudconsulting.com

pshankar@frslabs.com