HARVESTER COMINT Suite

Version 2.0

Collection Operator Terminal User's Manual





SIGINT Systems

Signals Intelligence Collection Software

Document Version Control

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1. LOGGING INTO COLLECTION OPERATOR TERMINAL

When you run any of the HARVESTER COMINT Suite applications, you will first be presented with the standard login screen. The screen will display the name and version of the application being run. It may also display user security warnings and caveats. These notifications are maintained by your system administrator.

The screen will ask you to enter your username and password and once entered, you should click the Login button to proceed with the login process.

🥑 User Login	1		×
Collection Version 1.1.	on Operator Terminal .653	SIGINT Systems Copyright © 20	022
		~	
Username	ALPHA	Login	
Password	****	Cancel	

If both username and password are correct, the application will open as normal. However if either or both credentials cannot be authenticated, the following warning message will be displayed:

User Login	×
Invalid username or password.	
ОК	

Ensure that both your username and password have been entered correctly and try logging in again. If you are still denied access, contact your system administrator.

If your credentials are correct and authenticated by the system but you do not have user permissions to run the application, then the login process will be halted and you will be presented with the following warning:



Applications may also be disabled by system administrators for maintenance or other operational reasons. If the application you are trying to log into has been disabled, you will see the following warning:



If the HARVESTER COMINT Suite database has recently been upgraded by a System Update and you have not yet deployed updated applications, logging into an application may result in the following warning being displayed:



If the application is started and no PKI security file is present, then following warning message will be displayed. Contact your system administrator and request the *harvester.pki* file to be added to your local installation.



Once you have successfully logged into the application, the main Collection Operator Terminal will open. The screen is comprised of two panels. The left panel contains a folder structure where frequency search queries can be stored. The main panel supports frequency and collection pages as well as a number of support modules that operators can access under the View option in the menu bar.



2. FREQUENCY LISTS

2.1 Frequency Pages

The heart of the Collection Operator Terminal is the Frequency Page. From here, you can begin to enter new frequencies and amend existing emitters, log various reports including parametrics and LOBs, build and save queries of your frequency lists that provide you with targetted frequency lists to monitor, and begin the all important process of creating coverage sessions and intercept logs.

Click the New Frequency Query button in the toolbar to open a new frequency page. Frequency pages support all the operator requirements for searching, amending and log emitters, and provides the access to dedicated collection pages.

HARVESTER COMINT SUITE - Collection	n Operator Terminal							-	o ×
Collection System FAIRVIEW							Logged in as ALPH	IA Position SKD-	SRP-AT7 Voice
File Tools View									Help
Assignments and Queries	🕒 🖬 🕼 😂 Ja	apan Radio NRD-535	ig (0002) 🝷 🎲 📮	0000.000 kHz	FAST 3.00 kHz				
· • •	No Name>								
🖃 🚰 My Queries	💀 Query Editor 🕤	Last 7 Days	- + 🗢 🗙	Scan 🔳 1 sec 🔹	<u>s()</u>				Auto-Tune
Survey	Survey Case Notation	Case Notation		TX Frequency Polarisation	Country	Service	Modulation	Emission	
	<								>
	2								
	Coverage Parametri	ics Reporting Mod	ules						
	Date C	Coverage Number	Case Notation	Frequencies	ти	TD Duration	Logs Summary		
	4						_		>

2.2 Adding a new frequency

To add a new frequency, or emitter, to the HARVESTER COMINT Suite database, click the Aaa button in the Frequency Page toolbar, press the F5 function key or right-click the frequency list and select the Add Emitter option from the menu. This will open the Add Emitter window.

Add Emitter		×
TX Frequency		
TX Band		
Polarisation	Undefined	\sim
Modulation	Undefined	\sim
Emission System	Undefined	\sim
	Estimated Centre Frequency	
	Begin Intercept Log	
	ОК	Cancel

Enter the frequency, and if identifiable, the modulation and emission systems. Polarisation is only required for UHF and SHF frequencies. If you are unsure of the emitter's exact centre frequency, check the Estimated Centre Frequency box to flag uncertainty in the frequency. Frequencies that have this box checked will appear in the Frequency Page with an 'E' prefix, highlighting that it is an estimated centre frequency.

NOTE: When you are entering frequencies, you can use the K, M or G suffixes to indicate kiloHertz, MegaHertz or GigaHertz. The frequency will automatically be formatted into the correct frequency format for each frequency band.

Once you have entered all the emitter information, click the OK button to add the frequency. The window will close and the frequency will appear in the Frequency Page. If you have already defined a frequency query on the Frequency Page, the new frequency may not appear if it is outside your defined search criteria.

2.3 Adding an Emission to an existing Emitter

There are often occasions when a known emitter will suddenly switch from one emission system to another, such as from Voice to Teletype or from Teletype to Morse Code. Providing that the new emission is being transmitted by the same network of stations, the new emission system can be added to the existing emitter.

NOTE: Care should be taken when adding a new emission system to an existing emitter. Make sure that the new emission system is not just another station using the same frequency. In such a case, a new frequency is required as it is a completely different network that just happens to share the same frequency.

Select the frequency on the Frequency Page and either press the F6 function key or or right-click the frequency list and select the Add Emission option from the menu to open the Add Emission window.

Add Emission - [4179.000K1]		×
-Frequency Division Multiplex E	mitter	
Baseband Frequency		
Modulation	Undefined	\sim
Emission System	Undefined	\sim
	Encrypted Traffic	
Signal Name		
Fixed Control Station Call Sign		
TEXSIG Notation		
Synchronisation Vector		^
CW modulated on		\sim
When Transmission Ends	Undefined	\sim
	Histor	.y
Receiver Settings		
Receiver Mode	Undefined ~	
Audio Bandwidth (Hz)		
IF Bandwidth (Hz)		
Comments		<u>^</u>
	0%	-1
	OK Canc	er

Select the new modulation and emission systems and enter any other information that is available then click the OK button to save the record. The new emission will appear under the selected emitter in the frequency list.

NOTE: Before saving the new emission, select the Receiver Mode that best suits the modulation and emission systems. This is crucial when using the Receiver Control function so that the correct receiver mode is set on the receiver.

2.4 Amending and Updating an Emitter

As new information is revealed about emitters from intercepts and analysis, emitter details will require to be amended or updated. To edit an emitter, select and double click the emitter, or any one of it's emission systems, or right-click the emitter and select the Edit Emitter option from the menu to open the Edit Emitter window. The Edit Emitter window is divided into three tabs: General, Case Notations and Emissions.

2.4.1 General

On the General tab, you can amend the basic properties of the emitter. These properties apply to the emitter in general and to all the emission systems supported by the emitter.

Edit Emitter			×
General Case Notations En	nissions		
Signal Emitter Number	9239850000000259]	
SIGINT Class	Undefined	\sim	
Signal Environment	Undefined	\sim	
Satellite		\sim	
Emitter			
TX Frequency	8431.000K6		
	Estimated Centre Frequency		
TX Band	HF		
Polarisation	Undefined	~	
Signal Properties			
Communication Mode	Undefined	~	
Signal Direction	Undefined	~	
Circuit Users			
Control Station	Out Stations		
Signal Name			
Remarks		<u>^</u>	
- Center to			
		~	
	I		
		OK Cancel	

NOTE: If you amend the emitter frequency, you will be prompted to provide a reason for the frequency change.

2.4.2 Assigning a Collection Case Notation

The Case Notation tab focuses on defining the ownership of the emitter and this is accomplished by use of Case Notation. Two separate Case Notations are used. Survey Case Notation is a more generalised system of identification that is used to reference intercepts on specific frequencies whereas Collection Case Notations provide identification of individual networks on the frequency. Collection Case Notations are derived from Technical Extracts of Traffic Analysis (TEXTA) which is managed in the Traffic Analysis Workbench application.

Edit Emi	tter					×
General	Case Notations E	missions				
Surv	ey CASN	84310000				
Colle	ection CASN	TUST TQ000000	030			
Colle	ection TEXTA Case Not	tation History				
Ca	se Notation		Type	Valid From	Valid Ur]
	TUST TO00000030		Temporary	2022-07-17 14:59	132	
<					>	
					Add	
				ОК	Cance	el

NOTE: Survey Case Notations are automatically allocated by the system and are based on the centre frequency of the emitter.

To add a new Collection Case Notation, right-click the Collection TEXTA Case Notation History box and select the Add option from the menu to open the Select Case Notation window.

TEXTA System - Select Case Notation				-	- 0	×
Country List	Russia					
Australia Austria Bahrain Belgium Canada China (Peoples Republic) Cuba Egypt France German Democratic Republic Gereany Greace Ireland Israel Italy	Case Notation Ty Case Notation Ty Case Notation Ty RSNA TQ00000005 Te RSNA TQ00000017 Te RSNA TQ00000154 Te RSNA TQ000000154 Te RSNB TQ000000155 Te RSNB TQ000000155 Te RSNB TQ000000175 Te RSNB TQ000000176 Te RSNB TQ000000177 Te TEVTA Card	imporary imporary imporary imporary imporary imporary imporary imporary	Service Naval Forces Naval Forces Naval Forces Naval Forces Naval Forces Naval Forces Naval Forces Naval Forces Naval Forces Naval Forces	Transmission Machine Morse Machine Morse Machine Morse Machine Morse Manual Morse Manual Morse Manual Morse Speech	Category	^ >
Korea, Democratic Peoples Republ	RSNB TQ00000)155		ACTIVE		^
Poland Portugal Russia	Russia Naval Forces, RAA Command and Control	, Manual M Network	lorse			
Sweden	Case Summary					l l
Turkey	Case Description					
United States	Call Signs and Frequencies					1
< Unknown	of Call Sign used	RAA				~
				Selec	t Can	cel

Navigate to the appropriate country in the Country menu then select the required Case Notation from the list of Case Notations and click the Select button. This will automatically populate the emitter with the selected Case Notation details.

2.4.3 Editing an Emission

The Emissions tab provides a summary of the signal configuration and structure of the emitter. It is not uncommon for an emitter to support more that one emission system but this is normally done with users switching between modes. Frequency Division Multiplexed emitters on the other had can support several channels and emission systems simultaneously. If the emitter being intercepted is supporting an FDM signalling configuration, check the Frequency Division Multiplex Emitter box which will allow you to define baseband frequencies for each supported emission system.

The "Emission Structure of this Emitter" displays all the emission systems that have been intercepted and are currently known to be supported by the emitter. By selecting each emission, the most recent parametric log will be displayed in the lower box. Click the Edit button to open the selected emission in the Edit Emission window.

Edit Emitter			×
General Case Notations Emissions			
Frequency Division Multiplex Emit Multiplex Protocol Undefine	tter :d	~	
Emission Structure of this Emitter			
To change emission properties, dick	Edit	Edit	
Parameters for SITOR-A - (22 May 2	2022 23:15:24 UTC)		
Parameter	Value		
Baud Rate Polarity Shift	100.0000 Bd Reverse (Inverted) 170.0000 Hz		
		OK Cance	

The Edit Emission page allows you to set and define various characteristics of the emission system.

NOTE If you are adding or amending an emission, ensure that you set the correct Receiver Mode that supports demodulation. This is done automatically when emitters are added but must be done manually when new emissions are added or systems are changed to different modulation types. If you do not set the receiver mode, the receiver will default to USB.

Use the Fixed Control Station Call Sign box to record the fixed ITU or voice call signs used by the net control station. These will appear against the emission in the

frequency list on the Frequency Page. Synchronisation or Initialisation vectors can also be recorded from systems that display a distinct binary pattern at the beginning of transmissions.

Edit Emission - [SITOR-B]		×
Frequency Division Multiplex B	Emitter	
Baseband Frequency		
Modulation	FSK	~
Emission System	SITOR-B	~
	Encrypted Traffic	
Signal Name		
Fixed Control Station Call Sign	ТАН	
TEXSIG Notation		
Synchronisation Vector		^
		~
CW modulated on		\sim
When Transmission Ends	Undefined	\sim
		History
Receiver Settings		
Receiver Mode	RTTY ~	
Audio Bandwidth (Hz)		
IF Bandwidth (Hz)		
Comments		
	ОК	Cancel

2.5 Generating a Temporary Collection Case Notation

When a new frequency is intercepted and its characteristics cannot be matched to existing Case Notations, intercept operators can generate a new temporary case notation for the emitter. Right click on the emitter and select the Generate

Create Temporary Case Notatio	on		×
Country	Unknown		~
Service	Unknown		~
Transmission Type	Unknown		~
TEXTA Block	000		
Title			
Net Description			
Apply Case Notation to al	l logs and entities	ОК	Cancel

Temporary Case Notation option to open the Generate Temporary Case Notation window.

Enter in as much information as possible that is available from the intercept and click the OK button. A new case notation will be automatically generated according to the country, service and transmission type that has been selected and the new case notation will be populated throughout the system so that intercept operators will see it assigned to the emitter and traffic analysts will be able to further develop the case in Traffic Analysis Workbench.

2.6 Creating a New General Search Log

The work of an Intercept Operator can broadly be divided into the tasks of general searches and targetted collection. Where targetted collection will focus on a single target for days, months or even years to glean as much information as possible from the network, general searches operate across broad sections for the radio spectrum, looking for new frequencies and emissions. Often referred to as Surveys, they are a fundamental part in the process of setting up any new intercept site and provide detailed lists of targets that are audible from the site. They are an equally valuable tool when regularly assessing the signal environment at your intercept site.

A General Search Log can often be thought of as a high level summary of the activity on a particular frequency. It will usually only capture the general activity of the frequency though there is always the option to log more detailed intercepts should the search reveal something of interest. To create a General Search Log, select and right-click the intercepted frequency to open the Frequency menu:

1.0				Undefined		PSK
9.0	Add Emitter	F5		Naval Forces		CW
2.0	Add Emission	F6		Undefined		FSK
1.0	Edit Emitter			Undefined		PSK
2.0	Eure Ermitter			Undefined		FSK
4.0	Add General Search Log		•	Nil Heard		
3.5	Add New Coverage	F1		Carrier Only	,	
7.0	Add Parametrics Report	F8		Channel Au		President
9.0	Add Module Report		•	Channel AV	allability i	Broadcast
6.0				Channel Ma	arker	
3.5	Create New Search		•	Chatter		I
4.0	Generate Temporary Case Notation			Idling		
1.0	Tune Receiver	F4		Net In Prog	ress	
	Get Signal Report			Test Tape		
	occorgnariteport			Traffic In Pro	ogress	
	Сору					
	Delete	Del				
req			_	Duration	Logs	Summary
141	Refresh		2:48	00:00:00	0	[General Search] T
141.000K	1	17:14:05	17:14:05	00:00:00	0	[General Search] T

Select the Add General Search Log option then select one of the various log options available. Click the most appropriate option that best describes the intercepted activity and the log will automatically created and will appear in the Coverage tab at the bottom of the Frequency Page with the summary description of "[General Search]" followed by the selected activity.

NOTE: The Nil Heard option should not be overlooked. Logging no activity is often just as valuable as logging actual activity. It can reveal when a schedule has ended or can be used to confirm or disprove assumptions made about a network's operating procedures and schedules.

Noting signal activity is usually sufficient for a general search or survey but if you wish to add more detail to the log, this can be done by double-clicking the log in the Coverage tab to open a dedicated Intercept Page. The workings of the Intercept Page are discussed in Chapter 3 – Collection.

2.7 Creating a Coverage Session

Targetted collection invariably involves specific coverage of a network, either 24 hours per day or for set periods during the day during which all network activity is intercepted and logged. To achieve this type of focussed and consistent logging, the Coverage Session is used to record the start and end time of an intercept session. It supports all the logging necessary to accurately copy all the activity on the network and also provides a clear record of the times during which specific networks were being monitored. From a Collection Management point of view, the coverage log can

also be used to assess the effectiveness of collection and provide accurate information on the number of hours being spent on a particular target.

To create a Coverage Session, select and right-click the intercepted frequency to open the Frequency menu then select the Select the Add New Coverage Session option or press F1 to open the Create Coverage Session window.

When the window opens, it will automatically list the frequency you have selected. If the selected intercept frequency is assigned a Case Notation, the case notation will be displayed beside the "Target Case Notation" and all frequencies associated with that case notation will be listed.

Create Coverage Session		×
Target Case Notation	RSNB TQ00000064	
Frequencies	2737.000K9 5179.000K2 5293.000K9 8113.500K8 8152.000K6 8191.000K9	
	Open Intercept Page Create Cancel	

Select and check the frequency or frequencies that you are covering with this session. In many cases, you will only need to select one frequency but if you are covering a network with duplex or complex working, you may need to select more then one frequency. Check the Open Intercept Page option if you wish to immediately open the Intercept Page when the Coverage session is created.

Click the OK button when you have selected all the required frequencies and the log will automatically created and will appear in the Coverage tab at the bottom of the Frequency Page with the summary description of "[Collection]". If you have selected the Open Intercept Page option, the Intercept Page will open immediately otherwise you can open it by double-clicking the log in the Coverage tab to open the Intercept Page. The workings of the Intercept Page are discussed in Chapter 3 – Collection.

2.8 Adding a Parametrics Log

An important part of logging emission systems is that you also log the operating parameters that these systems are using. Such a parametric log will provide a valuable record of what settings a system is using but it will also act as a useful identification for future intercepts. For example, if two totally unconnected networtks use identical emissions systems on the same frequency, the only way to distinguish them from each other may be a single operating parameter such as baud speed, shift or the polarity of the signal.

Select the emission system from the frequency list and press the F8 function key or right-click the emission system and select the Add Parametrics Report option to open the Parametrics Log Editor window.

Parametrics Log Editor		×
General		
Parametric Log Date	e 17 January 2024 22:44:34 UTC	
Emission System	Baudot	
Standard Reporta	able Parametrics	
Baud Rate		
Polarity	Undefined \checkmark	
Shift		
Remarks		^
		~
	OK Ca	ncel

NOTE The Standard Reportable Parametrics box will only display parameters that are used by the selected emission system. These reportable parameters can be set for each emission system in Field Station Manager.

Enter the parameter details for the selected emission system and click the OK button when you are finished. The new parametrics log will automatically appear in the Parametrics tab at the bottom of the Frequency Page and the parametrics will also appear next to the selected emission system in the frequency list.

2.9 Adding a Module Report

HARVESTER COMINT Suite has a number of tailored reports that address specific reporting needs. All reports can be accessed by right-clicking on a selected frequency in the frequency list and selecting the Add Module Report option.

2.9.1 Parallel Operating Frequencies

From the Add Module Report menu, select the Parallel Operating Frequencies option to open the Add New Parallel Frequency Log window. If the frequency you have selected does not have an assigned Case Notation, the following error will be displayed.



NOTE The Parallel Operating Frequencies log is only available on networks which have been assigned a Case Notation.

When the Add New Parallel Frequency Log window opens, it will display all the operating frequencies associated with the Case Notation. Select and check all the frequencies that are being transmitted in parallel, add any additional information then click the OK button to save the record.

Add New Parallel Frequence	cy Log	×
General		
Report Number	[Pending]	
Report Time	17 January 2024 22:49:49 UTC	
Target Case Notation	NLNT TQ000000034	
Frequencies operating in parallel	☐ 2474.000K7 ☐ 4280.000K4 ☐ 6358.500K7 ☐ 8439.000K4 ☐ 12840.500K0	
	AutoTune Receiver	
Operator Comments		^
		Y
	ОК	Cancel

2.9.2 LOB Report

From the Add Module Report menu, select the LOB Log option to open the Add New LOB Log window. If your Intercept Position has not been configured to support LOB reporting, the following error will be displayed.



Contact your System Administrator to have your Intercept Position configured to support LOB reporting.

Add New LOB Log		×
General		
Bearing Number	[Pendina]	
Denset Time		
Report Time	17 January 2024 22:50:05 OTC	
Target Case Notation	NLNT TQ00000034	
Call Sign	~	
DF Line of Bearing	000.0	
	Include Reciprocal Bearing	
DF Station Coordinates	000000.0N 0000000.0E	
Signal Strength (dB)	0.0	
- Single Station Locatio	on (SSL) Site Parameters	
SSL Site		
Elevation	0	
Range	0	
Height	0	
Confidence	0	
Quality Factor	~	
Nil Heard (N Code)		
Comments		1
	OK Cancel	

Select the callsign that the LOB is being performed against from the dropdown box then enter the DF Line of Bearing. If your site cannot accurately distinguish between forward and backward signal bearings, check the Include Reciprocal Bearing option. If no signal was heard on the frequency, check the Nil Heard option. Click the OK button to save the record. Company and Customer CONFIDENTIAL

2.9.3 TDOA Location

This module is specifically for the results of TDOA analysis which can be performed on a number of online SDR websites. From the Add Module Report, select the TDOA Location option to open the Add New TDOA Log window.

Add New TDOA Lee		~
Add New IDOA Log		^
General		
Report Number	(Panding)	
Report Number	[Fending]	
Report Time	17 January 2024 22:50:18 UTC	
Target Case Notation	NLNT TQ00000034	
Call Sign		\sim
TDOA Location		
TDOA Coordinates	00° 00' 00.0 N ~ 000° 00' 00.0 E ~	
TDOA Stations Used		\sim
Confidence	0	
Quality Eactor		
	· · · ·	
NII Heard (N Code)		_
Comments		^
		~
	OK Can	cel

Select the callsign that the TDOA analysis has being performed against from the dropdown box then enter the location, coordinates and TDOA sites used for the analysis. If no signal was heard on the frequency, check the Nil Heard option. Click the OK button to save the record.

2.10 Receiver Control

The Receiver Control module provides intercept operators with the ability to allow HARVESTER COMINT Suite to control their receiver making tuning far quicker and

more efficient, and providing the possibility of rapid switching between frequencies at the click of the mouse, as well as automatic scanning of frequencies in a frequency list. The Receiver Control module appears in the toolbar at the top of the screen and includes a list of available receivers, a receiver properties button, a connect and disconnect button and a frequency display showing the currently set frequency, receiver mode, AGC setting and bandwidth.

2	Japan Radio NRD-535G [0002] 🔻 🌼 🔩	2187.500 kHz FAST	3.00 kHz
e> *	🗉 Frequency: 2187.500K3 📰 Shipping		
itor	🝸 Last 7 Days 🔹 🔹 🕇 🕨 So	an 🔳 1 sec 🔹 🔹 🕵	

NOTE Receivers are configured for each intercept position by the System Administrator in Field Station Manager and these receivers will appear the receiver dropdown box.

Select the receiver you wish to use from the receiver dropdown box then click the Properties button to check that the connection settings are correct.

Receiver Setup	×
Receiver Receiver Address	Japan Radio NRD-535G
Serial Port Configur	ration
COM Port	COM1 ~
Bits per second	4800 ~
Data bits	8 ~
Parity	None 🗸
Stop Bits	1 ~
	Use Defaults
	OK Cancel

Depending on the type of cable used to connect to the receiver, a serial port or USB port will be required with the latter operating as a virtual COM port. Software is usually supplied with the receiver connection cables and this will need to be installed to enable a COM connection via USB. Select the correct COM port to connect to the receiver and click OK to save the settings. To connect to the receiver, click the

Connect button in the toolbar and the receiver will now be controlled by the application.

Once the receiver is successfully connected, the Receiver Module can operate in several different modes:

- 1. Manual Selection In this mode, a frequency can be selected from the Frequency List but the frequency and mode will only be set on the receiver when the F4 function key is pressed, or the Tune Receiver option is selected from the Frequency List menu.
- 2. Automatic Selection (Auto-Tune) This mode is enabled then when the Auto-Tune option is selected at the right hand side of the Frequency List toolbar. When Auto-Tune is engaged, the receiver frequency and mode as set as soon as a frequency is selected in the Frequency List. This function is not available in Demo mode.
- **3.** Scan The scan function allows you to repeatedly scan all the frequencies in the Frequency List with a selectable pause on each frequency of 250 ms, 500 ms, 1 sec, 2 secs, 5 secs or 10 secs. This function is not available in Demo mode.
- 4. **Intercept** This mode is exclusively used on the Intercept Page and allows you to rapidly switch between frequencies associated with the Case Notation being intercepted.

Currently, the Receiver Module is compatible with the a number of Icom, Japan Radio and Winradio receivers.

2.11 Queries

The Query Editor window is a powerful and intuitive query builder that allows you to rapidly develop specific queries to meet your collection requirements. The Standard Query tab allows you to specific general frequency and user criteria, which can be further narrowed down by entering details on the Parameters tab.

NOTE Before running a general query, it is often useful to select the "Last 7 Days" option in the date filter to show the most recently active frequencies and avoid having your search results being swapped with frequencies that are not currently active.

TIP Create a set of simple frequency queries that divide your collection frequencies into manageable segments, such as into 1 MHz blocks for HF collection or a broader bandwidth for VHF and UHF frequencies, then save them so that they can be easily recalled and re-used.

Click the Query Editor button in the toolbar to open the Query Editor window. Queries can be made from as few or as many conditions as are required to identify the specific list of frequencies that you are interested in monitoring.

SIGINT Class	Undefined	
Signal Environment	Undefined	
Satellite		
Frequency Range		
All Frequencies		
O Band		\sim
Frequency From		
Frequency To		
O Survey Case Notation		
Circuit Ownership		
Collection Case Notation	n	
O Country/Service/Tran	mission	
Country		\sim
Service		\sim
Transmission Mode		\sim
Modulation	Undefined	
Emission	Undefined	

Query Editor		×
Standard Query Parameters		
Parameters		
🗌 Data Rate 🗸 🗸		
□ shift		
~ ~		
Polarity	\sim	
	OK	Cancel

Once you have entered all your search requirements, click the OK button to run the query and the results will be displayed in the Frequency List. If the results do not quite meet your requirements, click the Query Editor button again to amend your query.

TIP Once you have a query that is returning the results you require, remember to save it in My queries so that it can be used again in the future.

2.11.1 My Queries

The Assignments and Queries panel on the main Collection Operator Terminal screen supports the My Queries folder, a user specific home folder for all of your search, survey, development and collection queries. All of your queries can be saved here and as the My Queries folder is unique to each operator, your queries can be accessed from any workstation you log into. My Queries works like any file system with both folders and files being able to be created, moved around, renamed and deleted to best meet your needs. Double-clicking any query will automatically open and run the query with the results displayed in a new Frequency Page.

TIP When you first log into the Collection Operator Terminal, take a few minutes to create a some top level folders to hold you queries. Folders such as Collection, Development and Survey might be a good starting point for your queries.

3. COLLECTION

The Collection Page sits at the heart of the Collection Operator Terminal and provide the core functionality for collection within a managed environment leaving intercept operators free to focus their attention on the process of interception. Collection Pages support collection for both general search and targetted coverage, and provide operators with all the informational and textual tools they require to effectively carry out their assignments.

3.1 Understanding the concepts of frequencies, coverage and intercepts

The operation of the Collection Page within the Collection Operator Terminal is based on a hierarchical data model increasing granularity to encompass all the eventualities that an intercept operator is likely to encounter on a frequency. The top level of this model is the frequency. It may be a standalone frequency or it may be just one in a series of frequencies within a network assigned a Case Notation but at it's most basic, it is a frequency to which an intercept operator can tune a receiver.



Immediately below the frequency in this model is the coverage session. Coverage is the actual process of the intercept operator monitoring the frequency. It will have an up time and a down time, and thus a duration. A frequency can support multiple coverage sessions and there can been as many coverage sessions against that frequency as is required to satisfy collection requirements. Coverage can last from a few minutes to a few hours to a full 24 hours per day depending on collection requirements and on the activity of the target. By the end of the coverage session, the operator may heard nothing but that frequency will still have been monitored for activity.

REMEMBER Not all networks continuously transmit traffic. Some do but others work to pre-defined schedules while others are much more sporadic and unpredictable in their operating habits. Continuous coverage of a network over a specific time period will ensure the all traffic is collected.

The final layer of this data model is the Intercept. This is the actual traffic that is transmitted by the network and is intercepted during the coverage session. Like the coverage session, each intercept will have an up time and a down time, and a duration. A coverage session can support multiple intercepts. The actual number of intercepts within any coverage session will depend on the activity of the network. A network that is transmitting traffic continuously may only require one intercept log for the entire coverage session while a network that transmits infrequently might

benefit from a new intercept for each transmission. It is often down to local intercept requirements and operator discretion to decide when an intercept has come to a natural end and a new intercept log is required to record the next transmission.

NOTE The Time Up Of Intercept (TUOI) is automatically recorded when a new intercept is created giving a timestamp on any network activity. Always <u>REMEMBER</u> to click the TDOI button at the end of an intercept to capture the down time and duration of the intercept.

3.2 The Collection Page

The Collection Page are accessed by double-clicking any General Search or Collection log in the Coverage tab on the Frequency Page.

ARVESTER COMINT SUITE - Collection	Operator Terminal						-	σ×
Collection System FAIRVIEW	operator remainar						Logged in as ALPHA Position S	KD-GRP-AT7 Voice
File Tools View								Help
Assignments and Queries	i 🖻 🖬 🔊 🗶 🗍	Japan Radio NRD-	535G [0002] 👻 🚳 💐	2187. 500 kHz RTTY	3.00 kHz			
2 🕨	I «No Name» *	Frequency: 21	87.500K3 🗐 Shinning	PASI				
Collection Collection Russia R	 Coverage Menu QCS-01-17 QCS-01-17 QCS-01-17 QCS-01-17 QCS-01-15 QCS-01-15 QCS-01-15 QCS-01-15 	22 - 22:36:26 - [Ge 22 - 22:36:26 - [Ge Emission GMOSS	<	TDOI Duration F	requendes	Case Notation	Description	,
Test 0000 NATO RATT	Data	5	Core Materian	Coll Com	Cell Gene Line	Call Cine Trees	Country	Consiste
Ц цказ торооооо23	Cate Cate	. requerices	Case Holauoh	can sign	can sign use	can siyn iype	country	SELAICE

NOTE Collection Page names are defined in accordance with a naming convention. If the originating Collection or General Search log was against a frequency that had a Case Notation assigned to it, then the Collection Page name will be prefixed with the word "Case Notation" followed by the assigned Case Notation, for example "Case Notation: RSNB TQ000000018" otherwise the Collection Page name will be prefixed with the word "Frequency" followed by the selected intercept frequency.

The Collection Page is divided into five main areas:

- **Coverage Sessions** Located at the top-left hand corner of the Collection Page. This menu contains all the coverage sessions associated with the frequency or frequencies that you are monitoring.
- **Frequency List** Located immediately below the Coverage Menu. All the frequencies associated with the Case Notation you are intercepting will be listed here. If Receiver Control is enabled, clicking each frequency will re-tune the receiver. If you are intercepting a frequency that is not assigned a Case Notation then only the intercept frequency will be listed here.
- Intercept Logs Located at the top of the Collection Page. Provides a list of all the intercept logs that have been submitted for a selected coverage session.
- Intercept Pages Located immediately below Intercept Logs. These are the physical intercepts created by intercept operator during the process of interception.
- Callsigns and Message Logs Located at the bottom of the Collection Page.

3.2.1 Creating a new Coverage Session

In the Coverage Sessions panel, click the New Coverage Session button in the toolbar or right-click on the panel and select the New Coverage Session option from the menu to open the Create Coverage Session window.

Create Coverage Sessior	1	×
Target Case Notation	RSAA TQ000000127	
Frequencies	3531.000K2 4179.000K1 4180.200K5 4357.000K9 4379.000K3 4521.000K2 4628.000K0 4817.000K0 4818.300K4 6240.000K2 6888.000K0 7746.000K4 7942.000K2 10168.000K6 14856.000K4	
	Open Collection Page	Create Cancel

Check all the frequencies that you are currently monitoring and click the Create button to create the session. The new session will be automatically added to the Coverage Sessions panel, ready for new Intercept Logs to be created.



When you create a new coverage session, the system first checks to see if there is another session that you have used in the last 30 minutes on the selected frequency or Case Notation. If theer is no such session, the new coverage session is created however if a session exists, you will see the following message.



There may be a genuine need to create a new coverage session and this can be done by clicking the Yes button, other click the No button and proceed with logging intercepts against the previous session.

NOTE If you create a Coverage Session from within the Intercept Page, the Coverage Session will always default to a Collection Coverage Session but this can be amended in the Properties window.

To view the properties of the coverage session, select and right-click the session in the coverage session box and select the Properties option from the menu to open the Coverage Session Properties window.

Coverage Session Propertie	es - [GENERAL SEARCH]	Х
General Properties		
Coverage Number	2024026000002	
Coverage Time	26-Jan-2024 15:13:14, duration: 00:00:08	
Target Case Notation	RSNB TQ00000097	
Frequencies	19201.000K3	
Coverage Summary	General Search Carrier Only Channel Availability Broadcast Channel Marker Chatter Chatter Idling Net In Progress Test Tape Collection	
Summary Amplifier		
Target Emission	Morse	
Signal Strength	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Number of Logs	1	
	Nil Heard	
Operator Comments		
	×	
	OK Cance	el I

The Properties window can be used to amend the type and activity of the coverage session (the available options are the same as those available on the Frequency Page), add amplifying information, record the signal strength and add any additional operator comments. Coverage session frequencies can be amended on the Properties tab.

Coverage Session Properties - [GENERAL SEARCH] × General Properties Coverage Frequencies B345.000K0 10543.000K3 112464.000K7 16660.000K1 17615.000K8 219201.000K8 21438.000K8				
General Properties Coverage Frequencies 	Coverage Session Properties -	[GENERAL SEARCH]		×
Coverage Frequencies	General Properties			
	General Properties Coverage Frequencies	8345.000K0 10543.000K3 12464.000K7 16680.000K1 17615.000K0 21438.000K8		
OK Cancel			ОК	Cancel

3.2.2 Creating an Intercept Log

With the current coverage session selected in the Coverage Menu, right-click the Intercept Logs list and select the Add New Intercept option from the menu or press the F5 function button to open a new Intercept Page.

If you have not selected any coverage session and have instead selected a date or frequency, then the following message will be displayed.



If the current coverage session is not selected, the following message will be displayed.



If the most recent coverage session has had no activity in the last 8 hours, the following message will be displayed. The 8 hour time period is derived from a typical intercept operator shift pattern and is attempting to guard against intercept logs being added to inactive sessions.

Confirm	×
?	There has been no activity on this coverage session in the last 8 hours. Do you want to add an Intercept to this log?
	Yes <u>N</u> o Cancel

It is, of course, entirely possible that a collection based coverage session may well have nothing to report for an extended period of time only to have traffic sent after many hours of inactivity. In such cases, click the Yes button and proceed with the intercept log. This check is not designed to impede operations, but is merely a sensecheck when a coverage session is inactive for an unusually long period of time.

As soon as the new intercept log is open, you can immediately begin entering details from the intercept. The up time of the intercept is automatically logged against the intercept log and the coverage session time will be updated to reflect the new intercept. You can use the TDOI (Time Down of Intercept) button in the Intercept Log

toolbar to update the end time of the intercept, which will be displayed along with the calculated duration in the list of intercept logs at the top of the Intercept Page.



NOTE The Intercept Page now supports Unicode character sets so that traffic sent in non-standard character sets can now be accurately recording in intercept logs.

3.2.3 Intercept Log Menu

Right-click anywhere on the Intercept to access the Intercept Log menu, which provides access to a number of useful text manipulation and logging functions. Shift ITA2 Characters is very useful when trying to correct teletype broadcasts with poor reception. The logging of callsigns and messages is discussed below.

	_		
FREQUENT	Cut	ON NOT TH	CLUDEI
ERF	Сору		
	Paste		I
ECIF RTY	Delete		
2 TTTT	Select All		
ND:	Save	Ctrl+S	
FREC	Insert Timestamp	F1	LUDEI
FREQ	Find	Ctrl+F	LUDEI
ERF	Find Next	F3	
	Change Case of Text	+	I
ECIE	Shift ITA2 Characters		DE
	Log Call Sign		I
	Log Message		
	Properties		I .
	Copy Intercept Number		I
	Editor Mode		
inj semaan	aurric		

3.2.4 Recording an Intercept

To produce a recording of an intercept, click the Record button on the Intercept Page toolbar. Audio files are saved to the folder defined in the Audio File Path. If this folder has not been set, an error will be displayed. Select the Settings option from the File menu to open the Settings window to set or update the Audio File Path.

Settings	×	
Audio File Path Data File Path	C:\Audio Files\	
	OK Cancel	

To stop the recording, click the Stop button on the Intercept Page toolbar. The audio file record will be displayed in the Audio Cuts page at the bottom of the Intercept Page. Double-click on the audio record to open the file in the Edit Audio Cut window.

Edit Audio Cut - [20250400	00002]	×
General		
Cut Number	2025040000002	
Cut Time	09-Feb-2025 09:26:34, Duration 00:00:07	
Source	Intercept Number 2025040000002	
Filename	20250209_092634_12486_000K1.wav	
Case Notation	Unknown V	
Frequencies	12486.000K1	
Receiver Mode	Receiver Not Connected	
Record Time	09-Feb-2025 09:26:34 UTC	
Elapse Time	00:00:00	
<	>	
Play Pause	Stop	
Operator Comments	A	
		1
	OK Cancel	

Use the Play, Pause and Stop buttons to control the playback of the recording.

3.2.5 Intercept Log Properties

Click the Properties button on the Intercept Page toolbar or select the Properties option on the Intercept Log menu to open the Intercept Properties window.

Intercept Properties		×
General Properties		
Intercept Number	2024017000003	
Intercept Time	17-Jan-2024 13:06:44, duration: 00:00:00	
Frequencies	12586.000K2	
Case Notation	RSST TQ00000063 ~	
Sending Station	UDK ~	
Action Receiving Station(s)	Sends A Channel Availability Broadcast A CQ A CW Message A Frequency Change A Group of Messages A Message A Quick Brown Fox Test Tape A Service Message A Sounding A Test Count A Test Message A Traffic List A Voyez Vous Le Brick Geant Que J'Examine Pres Du Grand Wharf Te A A Authentication Challenge An Authentication Response Standing By For Traffic Traffic A Il Stations	
Receiving Station(s)		
Action Remarks		
Signal Strength	Fair ~	
Readability	Fair ~	
Contains Binary Data		
	OK Cance	I

Use the General tab on the Intercept Properties window define the summary of activity of the intercept, which station was sending and which station or stations were receiving, signal strength and readability of the traffic, and whether or not the

log contains binary data – a useful flag for later analysis of unknown emission systems for the purposes of signal development.

The Action tree can be used to build up a description of the intercept using the 'Sending Station', 'Receiving Station(s)' and the 'sends', 'requests', 'calls' and 'tells' actions as well as the miscellaneous and special action codes. Both Sending Station and Receiving Station(s) boxes are populated from the list of logged callsigns (see below) which is why it is so important to log callsigns during an intercept.

Intercept Properties		×
General Properties		
Frequencies	✓ 12586.000K2	
Emission(s)	SITOR-B	_
Language(s)	Afrikaans Albanian Algerian Amharic Arabic Armenian Azerbaijani Baluchi	
	☐ Basque ☐ Belarussian v	,
	OK Canc	el

3.2.6 Logging a Callsign

When a new callsign is discovered in an intercept or a known callsign appears on a new frequency, it is good practice to always log it against the frequency or Case Notation for future reference, for the purposes of analysis, and so that it can be used in log descriptions and summaries. Highlight the callsign in the intercept then right-click it to access the Intercept menu. Select the Log Call Sign option from the menu and this is automatically log the selected callsign in the Callsigns tab at the bottom of the Intercept Page.

Callsigns Messa	iges						
Date	Frequencies	Case Notation	Call Sign	Call Sign Use	Call Sign Type	Country	Service ^
2024-09-09	12464.000K7	RSNB TQ00000018	RMEV	Out Station	Fixed	Unknown	Unknown
A 2024-08-20	14556.000K1	RSNB TQ00000018	RMRV	Out Station	Fixed	Unknown	Unknown
2024-08-20		RSNB TQ00000018	RCRE	Out Station	Fixed	Russia	Unknown
2023-11-04	17615.000K0	RSNB TQ00000097	RCY6	Collective	Fixed	Unknown	Unknown
2023-08-11	14556.000K1	RSNB TQ00000018	UCTA5	Out Station	Fixed	Unknown	Unknown
2023-08-11		RSNB TQ00000018	RIW	Net Control Station	Fixed	Russia	Naval Forces
A 2023-08-10	14556.000K1	RSNB TQ00000018	RIW	Net Control Station	Fixed	Unknown	Unknown
2023-08-10	14556.000K1	RSNB TQ00000018	UCTA5	Out Station	Fixed	Unknown	Unknown
2023-03-16	10543.000K3, 17615.000K	RSNB TQ00000097	RCV	Net Control Station	Fixed	Russia	Naval Forces
							*
<							>

To edit a callsign, double-clicking on the callsign log or by right-click the callsign and selecting the Edit option from the menu to open the Edit Callsign window.

Edit Callsign - [UDK]		×
General Frequencies CO	MINT Entity Operators	
Call Sign Date	26 October 2022	
Call Sign	UDK	
Call Sign Use	Net Control Station	\sim
Call Sign Type	Fixed	\sim
Call Sign System	Unknown	\sim
Call Sign Validity		
First Heard	26-Oct-2022 00:00:00	
Valid From	26 October 2022 🗐 🔻 00:00 🗸 UTC	
Validity Period	Undefined \vee	
Valid Until	17 January 2025 🗐 🔻 00:00 🗸 UTC	
– Call Sign Continuity –		
Previous Call Sign	~	
Operator Comments		~
	OK Can	cel

The Edit Callsign window is divided into four tabs, each focussing on a different aspect of the callsign's properties:

3.2.6.1 General Callsign Properties

The General tab allows for the recording of the general use, type and system of the callsign as well as the period of a semi-permanent or random callsign's validity. A check of the callsign can be performed by right-clicking on the callsign text box and selecting the Lookup option from the menu or by pressing the F2 function key to open the Call Sign Lookup window.

Call Sign Lookup						2
Common Search						
Call Sign	RCY6					Search
Call Sign Syste	m Undefined		\sim			Select
From	27 January 2025					Cancel
Until	27 January 2025					
C 11 C 1 C 1 C						
Call Sign Search Re Date	call Sign	Frequencies	Case Notation	Call Sign Use	Call Sign Type	Country
Call Sign Search Re Date 2025-01-26	Call Sign RCY6	Frequencies 6259.500K7	Case Notation Unknown	Call Sign Use Collective	Call Sign Type Undefined	Country Unknown
Call Sign Search Re Date 2025-01-26 2023-11-04	esults Call Sign RCY6 RCY6	Frequencies 6259.500K7 17615.000K0	Case Notation Unknown RSNB TQ000000097	Call Sign Use Collective Collective	Call Sign Type Undefined Undefined	Country Unknown Unknown
Call Sign Search Re Date 2025-01-26 2023-11-04 2023-03-15	call Sign RCY6 RCY6 RCY6 RCY6	Frequencies 6259.500K7 17615.000K0	Case Notation Unknown RSNB TQ00000097 RSNB TQ00000097	Call Sign Use Collective Collective Collective	Call Sign Type Undefined Undefined Undefined	Country Unknown Unknown Unknown
Call Sign Search Re Date 2025-01-26 2023-11-04 2023-03-15 2023-03-14	call Sign RCY6 RCY6 RCY6 RCY6 RCY6	Frequencies 6259.500K7 17615.000K0	Case Notation Unknown RSNB TQ00000097 RSNB TQ00000097 RSNB TQ00000097	Call Sign Use Collective Collective Collective Collective	Call Sign Type Undefined Undefined Undefined Undefined	Country Unknown Unknown Unknown Unknown
Call Sign Search Re Date 2025-01-26 2023-01-04 2023-03-15 2023-03-14 2023-03-01	csults Call Sign RCY6 RCY6 RCY6 RCY6 RCY6 RCY6	Frequencies 6259.500K7 17615.000K0	Case Notation Unknown RSNB TQ000000097 RSNB TQ00000097 RSNB TQ00000097 RSNB TQ00000097	Call Sign Use Collective Collective Collective Collective Collective	Call Sign Type Undefined Undefined Undefined Undefined Undefined	Country Unknown Unknown Unknown Unknown Unknown
Call Sign Search Re Date 2025-01-26 2023-11-04 2023-03-15 2023-03-14 2023-03-01 2023-02-28	call Sign RCY6 RCY6 RCY6 RCY6 RCY6 RCY6 RCY6 RCY6	Frequencies 6259.500K7 17615.000K0	Case Notation Unknown RSNB TQ00000097 RSNB TQ00000097 RSNB TQ00000097 RSNB TQ00000097 RSNB TQ00000097	Call Sign Use Collective Collective Collective Collective Collective Collective	Call Sign Type Undefined Undefined Undefined Undefined Undefined	Country Unknown Unknown Unknown Unknown Unknown
Call Sign Search Re Date 2025-01-26 2023-01-04 2023-03-15 2023-03-14 2023-03-01 2023-02-28	call Sign RCY6 RCY6 RCY6 RCY6 RCY6 RCY6 RCY6 RCY6	Frequencies 6259.500K7 17615.000K0	Case Notation Unknown RSNB TQ000000097 RSNB TQ000000097 RSNB TQ000000097 RSNB TQ000000097 RSNB TQ000000097	Call Sign Use Collective Collective Collective Collective Collective Collective	Call Sign Type Undefined Undefined Undefined Undefined Undefined	Country Unknown Unknown Unknown Unknown Unknown

With the call sign auto-populated, click the Search button to check whether the call sign has been used previously. If a match with the current call sign is found, select the matching record and click the Select button to populate the Edit Callsign window with the details.

NOTE Take care when setting a callsign's type as this setting also drives callsign validity which can affect the length of time a non-fixed callsign will remain in the list of callsigns available to reports. If you are unsure, keep the default option of Undefined or choose Fixed until an accurate assessment can be made.

3.2.6.2 Frequencies

The Frequencies tab allows you to set the transmit and receive frequencies for the callsign. On simplex networks, transmit and receive will be the same frequency however on duplex and more complex types of working, transmit and receive may be on different frequencies.

Edit Callsign - [UDK]			×
General Frequencies COM	INT Entity Operators		
Case Notation	RSST TQ00000063	~	
Operating Frequencies			
12586.000K2	🗹 Transmit 🗌 Receive		
		OK Cancel	

NOTE Only transmit frequencies are displayed in the Callsign tab as these are the frequencies on which you will hear the callsign operating. This is also true of collective callsigns which never transmit but will have a receive frequency.

3.2.6.3 COMINT Entity

The COMINT Entity tab allows you set the country, service and platform type of the callsign if known. When you select a country, the COMINT Entity tree at the bottom of the window is automatically populated with that country's Order of Battle (OOB)

as produced and maintained by the OOB module in the Traffic Analysis Workbench. Select the COMINT entity that is associated with the callsign if it is known.

Edit Callsign - [UDK]					
General Frequencies C	OMINT Entity Operators				
Callsign User Details					
Country	Russia ~				
Service	Shipping ~				
Platform Type	Land Fixed V				
COMINT Entity	Rosmorport, Murmansk Radio (UDK)				
Select the COMINT Ent Russia Ministry of Rosmorpo Russian Ai Russian Ai Russian Ni Russian Ni Russian Ni	ity associated with this callsign: f Transport rt insk Radio (UDK) r Force my iplomatic Corps aval Air Force avy				
	OK Car	icel			

3.2.6.4 Operators

If network security is observed, there should be very little chance of being able to to identify individual operators. However many operators still have distinguishing features that network security cannot protect against. Whether it is a distinctive accent, the way particular words are spoken, the way certain Morse characters are sent by hand or a peculiar habit

Edit Callsign - [UDK]				×
General Frequencies COMINT Er	ntity Operators			
Station Operators				
Reference Gender	Nationality	Name		Last I
		Add	Edit	Delete
Notes on Operator Behaviour				
				^
				~
			ОК	Cancel

Operator Editor		×
General		
Reference	[Pending]	
Gender	Undefined ~	
Nationality	Unknown	
Name		
Accent Notes		
Remarks	~]
	~	
	OK Cancel	

3.2.7 Logging a Message

Highlight the message in the intercept including all any header details then right-click it to access the Intercept menu. Select the Log Message option from the menu and this is automatically log the selected message in the Messages tab at the bottom of the Intercept Page. Once the message appears in the Messages tab, it can be edited by double-clicking the record to open the Edit Message window.

NOTE Both Intercept and Message editors now support Unicode character sets so non-Roman scripts such as Russian can now be pasted and saved.

Edit Message - [2025011000	001]			×
Message				
МУРМАНСК НР 16 Б/С 0 МУРМАНСК ТРАЛ= ПЕРЕДАВАТЬ 10 СУТО ПРИП МУРМАНСК 1 КА БАРЕНЦЕВО МОЦЕ 1. СТРЕЛЬБЫ РАКЕТН 1? ПО 19 ЯНВ 0500 ПЛАВАНИЕ ЗАПРЕЩЕНО ОФН РКЕDELAMI~~E 70-03.6~ 033-38.08 70-03.6C 035-26.38 69-31.5C 035-26.38 69-31.5C 033-38.08 2. ОТМ ЭТОТ НР 192 091000 МСК ГС-	09/01 1625= К РТА 10100 Ы~ А АРТИЛЛЕРИЙСКИЕ ДО 1900 О ТЕРВОДАХ			~
Properties External Meta	data Internal Metadata			
DTOI Frequencies	11 January 2025 13:00:41 12586.000K2			
Case Notation	RSST TQ00000063			\sim
Sending Station	UDK			~
Receiving Stations	All Stations			
Readability				~
			OK	Cancel

On the Properties tab, details of the message sender and recipients can be selected along with an overall estimate of the readability of the message.

Message MYPMAHCK HP 16 5/C 09/01 1625- 8 VPMAHCK TPAЛ= IEPEдABAT5 10 CYTOK IPMI MOVIE III CYTERISM PAKETHW- A APTIVILIEPUICKIVE 1: CYTERISM PAKETHW- A APTIVILIEPUICKIVE 2: CYTI SYNT HP 152000 AHB= 091000 MCK TC- Poperties External Metadata Message Header	dit Message - [2025011000001]			>
MYPMAHCK HP 16 5/C 09/01 1625- 0 0 MYPMAHCK TPAJ= IEPEQABAT5 10 CYTOK IPMI MYPMAHCK X LAPTA 10100 BAPENLEBO MOLE 1. CTPERIDBL PAKETHAW- A APTUNDEPUKCKUE 12 12 TO 19 HIN 0506 ØJ 0960 INABAHE 3ADPELLEHO TEPBODAX OWH PREDELANTE 70-03.5 0940 93-33.5 004H PREDELANTE 70-03.5 033-38.08 20-33.5 2. OTM 3TO THP 132000 RHB- 091000 MCK TC- 0 Properties External Metadata Message Header	Message				
Properties External Metadata Message Header	МУРМАНСК НР 16 Б/С 09 0 МУРМАНСК ТРАЛ= ПЕРЕДАВАТЪ 10 СУТОК ПРИП МУРМАНСК 1 КАРТА БАРЕНЦЕВО МОЦЕ 1. СТРЕЛЪБЫ РАКЕТНЫ~ 1? ПО 19 ЯНВ 0500 ДО ПЛАВАНИЕ ЗАПРЕЩЕНО ТЕ ОФН РКЕDELAMI~~E 70-03.6~ 035-38.0B 70-03.6C 035-26.3B 69-31.5C 035-26.3B 69-31.5C 035-26.3B 2. ОТМ ЭТОТ НР 192000 091000 МСК ГС-	//01 1625= 10100 А АРТИЛЛЕРИЙСК 1900 РВОДАХ 9 ЯНВ=	ИЕ		
Message Header Image: Constraint of the second of the se	Properties External Metadata	Internal Metadata	a		~
Priority	Message Header			 	~
Message Serial Date Time Group Group Count Originator	Priority			7	
Addressees Handling Instructions	Message Serial		Date Time Group	Group Count	
Handling Instructions	Originator			 	
Handling Instructions					
	Handling Instructions				

The External metadata tab allows specific external characteristics of the message to be recorded. These are all useful clues in traffic analysis.

Edit Message - [20250	11000001]				×
Message					
МУРМАНСК НР 16 0 МУРМАНСК ТРАЛ= ПЕРЕДАВАТЪ 10 ПРИП МУРМАНСК БАРЕНЦЕВО МОЦЕ 1. СТРЕЛЪБЫ РА 1? ПО 19 ЯНВ @ ПЛАВАНИЕ ЗАПРЕ ОФН PREDELAMIA 70-03.6~ 033-3 70-03.6C 035-2 69-31.5C 033-3 2. ОТМ ЭТОТ НР 091000 МСК ГС	5 Б/С 09/01 1625 СУТОК 1 КАРТА 10100 КЕТНЫ~ А АРТИЛЛІ 500 ДО 1900 ЩЕНО ТЕРВОДАХ ~E 18.08 26.38 26.38 26.38 29.192000 ЯНВ= -	=			
Properties External	Metadata Internal N	letadata			
Properties External	Metadata				
Message Text	Plain Language				
	Language	Undefined			~
	Cipher				
	Text Type				\sim
	Cipher System	Undefined			\sim
	First 10 Groups				
	Last 5 Groups				
Signature					
				OK	Cancel

The Internal metadata tab allows specific internal characteristics of the message to be recorded. These are all useful clues in both traffic analysis and cryptanalysis.

4. WATCH SUPERVISOR

The Watch Supervisor page is an extremely useful tool in multi-intercept position environments where a watch or block supervisor is responsible for a group of intercept positions. Select the Watch Supervisor option from the View menu to open the Watch Supervisor module.

NOTE This module is not available in the demo mode.

A HARVESTER COMINT SUITE - Collection	Operator Terminal								_	σx
Collection System FAIRVIEW	operator reminar						Logge	d in as ALPH/	Position SI	(D-GRP-AT7 Voice
File Tools View										Help
Assignments and Oueries	i 📭 🖬 🔊 🦽	Janan Radio NRD-	5356 (00021 👻 🖓	14556 6	CW CW	3.00 kHz				
2 🕨	- No Names &	G MHz Suprav	19 MHz and Ab		POURIL FAST	ation: BSNR T000000007	A Watch Superviso			
	and sho wantes	in o with Survey	TO MILE and AD	ove survey in Russi		ation. K3ND 1 200000037	- Hattin Superiors			
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The toolbar contains a number of filtering options covering the types of coverage (Collection or General Search), time blocks ranging from the last hour to the last 24 hours, and the selection of individual intercept positions. Clicking on the coverage session reveals the associated intercept logs in the box below. The Watch Supervisor page also supports receiver tuning and the creation of new frequency searches based on reported intercept operator activity.

5. TEXTA DATABASE (TDB)

The TEXTA Database (TDB) module provides a country by country list of all the currently published TEXTA for networks and nets currently identified or under analysis. Each TEXTA page is divided into seven specific areas that are organised into topics that will help Intercept Operators rapidly identify communications.

Select the TEXTA Database option from the View menu to open the TEXTA Database module.

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Select the country of interest in the Country Menu and the current list of published TEXTA for that country will be displayed in the right-hand panel. Select a Case Notation from the list to display the TEXTA page. Each TEXTA page is organised into TEXTA areas:

- Case Summary
- Callsigns and Frequencies
- Schedules
- Operating Procedures
- Traffic
- Locations and Identities
- History

TEXTA pages should be viewed as "latest available information" but are works in progress as they constantly evolve as new information is gleaned from Traffic Analysis. It is the responsibility of the Traffic Analysis process to keep TEXTA pages up-to-date. As well as viewing specific countries, the TEXTA Database can also be searched.

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Turks and Caicos Island	
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United Arab Emirates	
United Kingdom	
Uzbekistan	
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Venezuela	
- Vietnam	
Wallis and Futuna	
Vestern Samoa	

Select the Search tab then click the Query Editor button to open the Query Editor window. Here Case Notations can be searched using the wildcard character %, by Country, Service or Transmission System. Results can be further refined by defining the originator of the TEXTA, the Case title and any specific words that might be used in the TEXTA page, again using the wildcard character %.

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