



IMSO LRIT training for Search and Rescue Operators

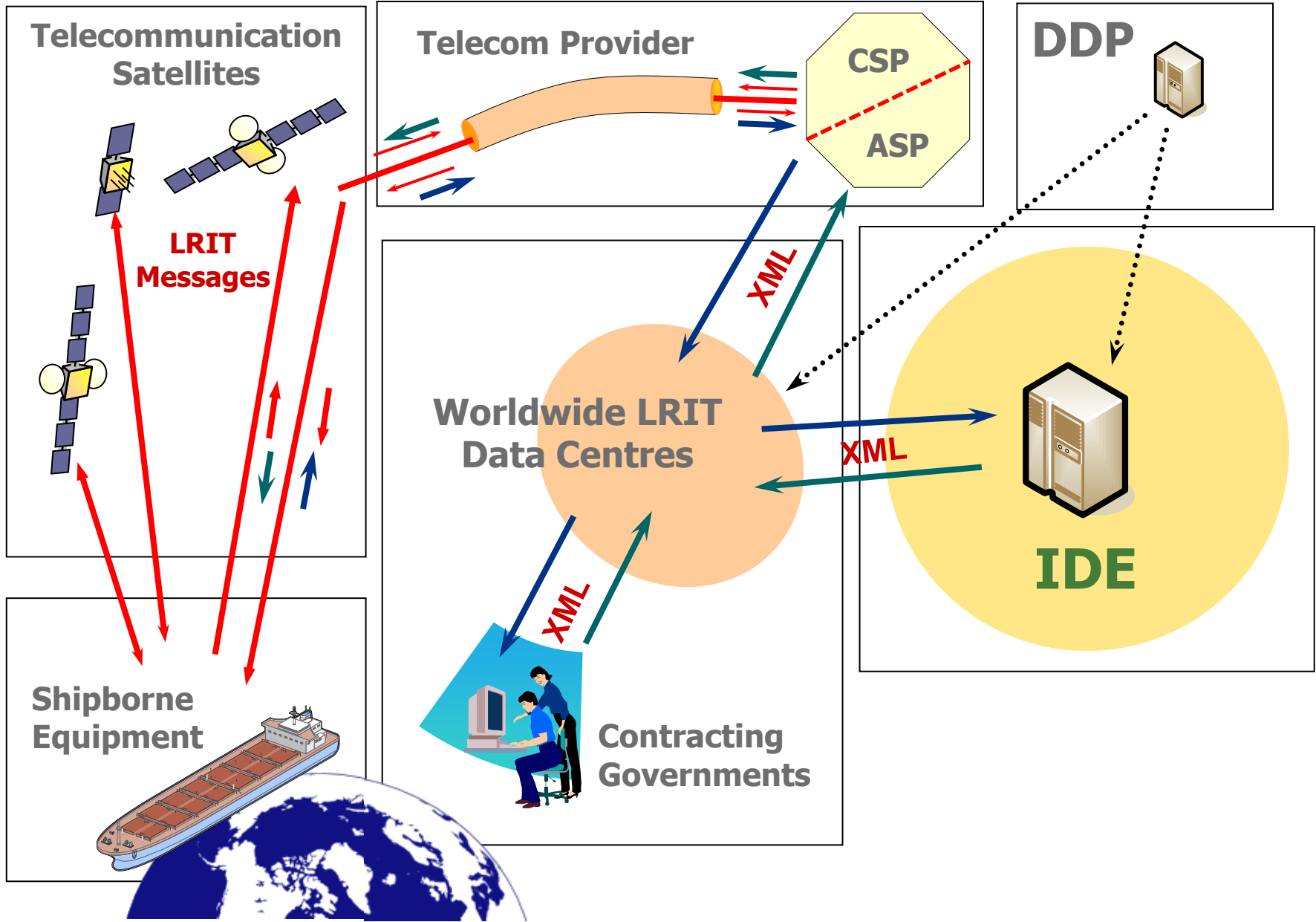
Developmental Testing environment demo
SAR-related functionalities

Department 3: Unit 3.3 - Simplification
Lazaros Aichmalotidis / Head of Unit
Diego Molero / Senior Project Officer

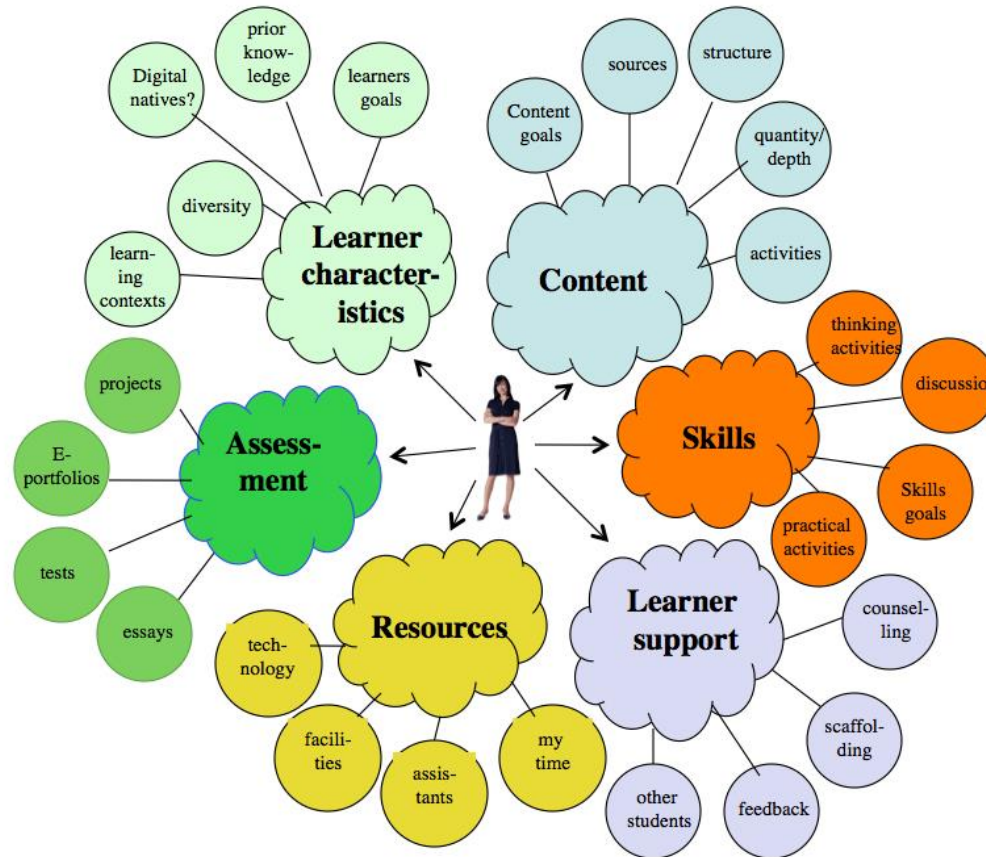
Teams Meeting / 27 February 2024



LRIT system environments

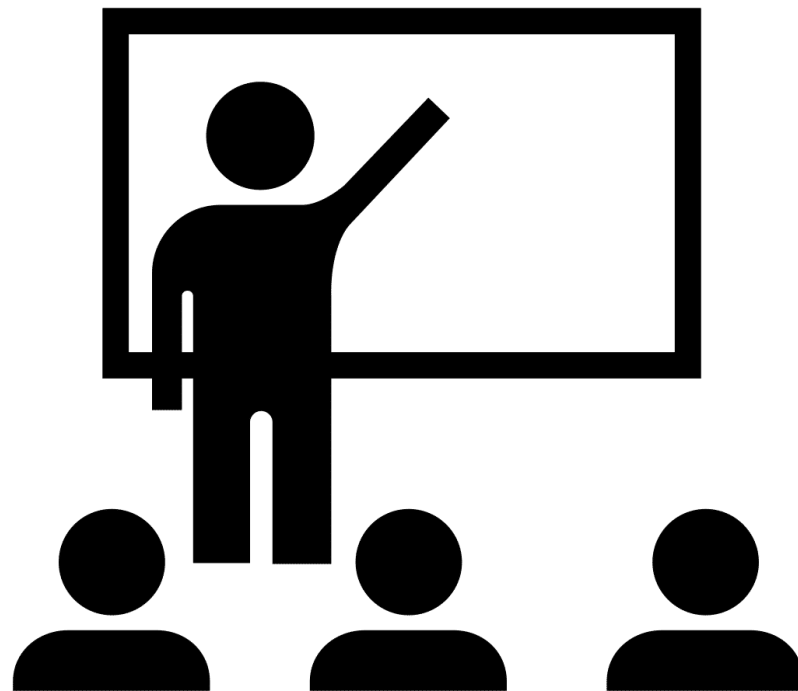


What is a DevTest / training environment



A training environment refers to a setting or platform where individuals work to develop new skills, knowledge, or competencies.

- **Demonstrate specific examples for the main LRIT functionalities**
- **Use cases focus on SAR**
- **Five training geographical areas are set up**
- **“Simulated” ships sailing in that areas created by Brazil and EMSA**

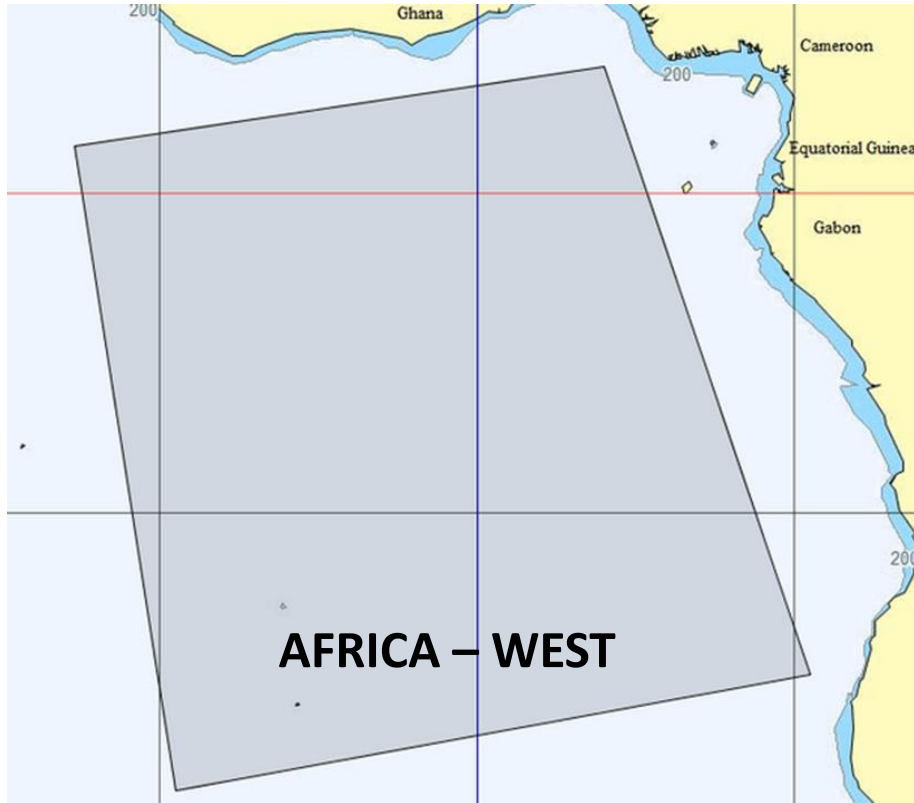


Two step approach:

- **Step 1: Live presentation /demo using the training environment**
- **Step 2: The LRIT testing environment will be made available to trainees in due time. Testing available to all trainees. Trainees should contact their LRIT DC to have access to the training environment**



Training geographical areas



Simulated ships. Brazil LRIT RDC



AFRICA WEST		
(GACA03) - lat: 06.56.09.S, lon: 001.13.02.W, radius: 853.450		
CG	IMO	NAME
BRA	9602198	ARCIMBALDO
BRA	9600578	Skandi Urca
URY	5000001	Montevideo
URY	9044114	MATRERO
NAM	3000001	Mighty Gunners FC
NAM	9854911	BENGUELA GEM

PACIFIC OCEAN		
(GACA4_11) - lat: 18.30.00.S, lon: 167.30.00.W, radius: 595.49		
CG	IMO	NAME
BRA	9318448	NORSUL VEGA
BRA	9530187	SANTOS SCOUT
URY	5000002	Rivera
URY	4000002	Uruguay 2
NAM	3000002	University of Namibia FC
NAM	2000006	Luderitz

SOUTH AMERICA WEST		
(GACA02) - lat: 18.30.00.S, lon: 081.00.00.W, radius: 666.11		
CG	IMO	NAME
BRA	9697076	Monty Orr Tide
BRA	9839416	C ESMERALDA
URY	5000004	Montevideo II
URY	4000005	Nacional
NAM	2000001	FC Life Fighters
NAM	2000002	Blue Waters

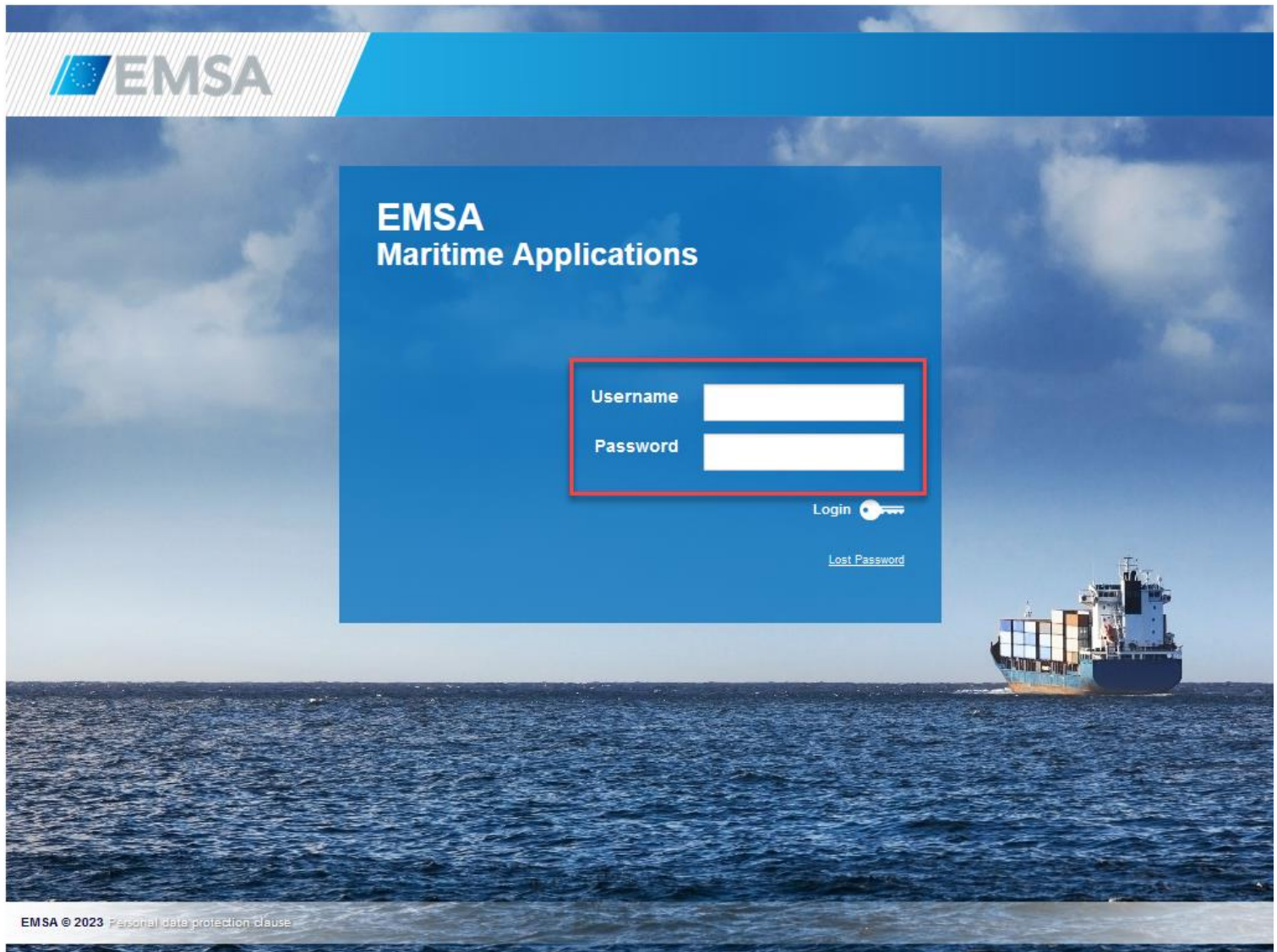
SOUTH AMERICA EAST		
(GACA01) - lat: 39.00.00.S, lon: 050.00.00.W, radius: 807.22		
CG	IMO	NAME
BRA	9767833	CBO PARINTINS
BRA	9578892	CBO COPACABANA
URY	5000003	Carmelo
URY	4000003	Uruguay 3
NAM	3000003	Orlando Pirates Windhoek
NAM	2000007	Swakopmund

SOUTH AMERICA EAST		
(GACA01) - lat: 39.00.00.S, lon: 050.00.00.W, radius: 807.22		
CG	IMO	NAME
BRA	9767833	CBO PARINTINS
BRA	9578892	CBO COPACABANA
URY	5000003	Carmelo
URY	4000003	Uruguay 3
NAM	3000003	Orlando Pirates Windhoek
NAM	2000007	Swakopmund

South America - East		
Flag	Ship Name	IMO Number
Portugal	PRT1913278	1913278
Italy	ITA1923273	1923273
Spain	ESP1933278	1933278
Sweden	SWE1721273	1721273
Finland	FIN1722277	1722277
South America - West		
Spain	ESP1236278	1236278
Greece	GRC2423270	2423270
France	FRA1723271	1723271
Germany	DEU1724275	1724275
Pacific Ocean		
Norway	NOR3623279	3623279
The Netherlands	NLD4723272	4723272
Denmark	DNK1725279	1725279
Poland	POL1726273	1726273
Africa - West		
Greece	GRC5123273	5123273
Cyprus	CYP6523274	6523274
Portugal	PRT8533273	8533273
Bulgaria	BRG1727277	1727277
Romania	ROM1728271	1728271
Tunisia		
Mediterranean Sea - South		
Malta	MLT7823279	7823279
Cyprus	CYP9523275	9523275

- **A SAR user can make requests on any ship simulated by EMSA and Brazil wherever she is located (within the defined geographical areas)**
- **A SAR user can consult all reports generated by users having the same role and located at the same SAR Service as they are**
- **LRIT SAR reports are provided free of charge to SAR services**






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Maritime Applications

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Welcome to the EU LRIT Data Centre



Long Range Identification and Tracking - EU LRIT Data Centre

Welcome to the EU LRIT Data Centre (EU LRIT DC). The objective of the EU LRIT DC is the identification and tracking of EU Flagged ships, as part of the International LRIT system.

Starting on July 1st 2009, under the International Convention for the Safety of Life at Sea (SOLAS), all passenger ships, high speed craft, mobile offshore drilling units and cargo ships of over 300 gross tonnage regulated by the 160 Contracting Governments of the International Maritime Organization (IMO) must be tracked with a Long-Range Identification and Tracking system.

The EU LRIT DC collects all of the LRIT information for EU Flagged ships (such as the ships' positional data and their identities) and is connected to the International LRIT system via the International Data Exchange (IDE) using a specific LRIT communications protocol. Furthermore, all LRIT data centres are capable of communicating amongst themselves and exchanging position reports on request. In addition, it is possible to track any ship within a 1,000 nautical mile zone of its coastline, no matter what flag the ship is flying.

- **Most recent position request**
- **One-time poll request**
- **Circular SAR SURPIC**
- **Archived data request**
- **Rectangular SAR SURPIC**



Most recent position request

Filter Request Search Settings Map Statistics Ship management Journals

Manage requests

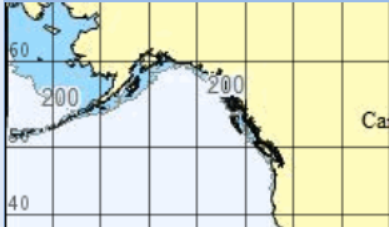
Make requests

Last: 15 minutes

From: 20/02/2024 20:39:36

To:

Max positions per ship: 4



1

Geographic area filter:

Make requests

Selected Ship(s)

New Ship

IMO: 4000002

Flag: Uruguay

Access type: SAR

Request type: Most recent position report

Request reason:

Dates

Start date:

End date:

Send Reset Close

2

Most recent position request

Manage requests

Selection

Request status

In progress:
Terminated:
Rejected:

Access type

Direction of message

Incoming:
Outgoing:

Date	Request type	Start date	End date	Ship name	IMO number
22/02/2024 08:22:34	Most recent position report	22/02/2024 08:22:34		Uruguay 2	4000002
22/02/2024 08:05:38	One time poll of ship	22/02/2024 08:05:38		ESP1236278	1236278
22/02/2024 08:02:38	One time poll of ship	22/02/2024 08:02:39		DEU1724275	1724275
21/02/2024 20:39:14	Most recent position report	21/02/2024 20:39:14		GRC5123273	5123273
21/02/2024 20:37:56	Most recent position report	21/02/2024 20:37:56		SWE1721273	1721273
21/02/2024 20:35:46	SAR SURPIC				
21/02/2024 20:32:01	SAR SURPIC				
21/02/2024 20:25:08	SAR SURPIC				
21/02/2024 20:22:23	Most recent position report	21/02/2024 20:22:23		SWE1721273	1721273
21/02/2024 20:19:49	SAR SURPIC				
21/02/2024 20:13:29	Most recent position report	21/02/2024 20:13:29		ARCIMBALDO	9602198
21/02/2024 20:12:28	Most recent position report	21/02/2024 20:12:28		SWE1721273	1721273
21/02/2024 20:07:45	Most recent position report	21/02/2024 20:07:45		ARCIMBALDO	9602198
21/02/2024 20:06:48	Most recent position report	21/02/2024 20:06:49		SWE1721273	1721273
02/2024 20:02:51				ARCIMBALDO	9602198
02/2024 20:01:08				SWE1721273	1721273
02/2024 19:59:16				FRA1723271	1723271
02/2024 19:53:14				ESP1236278	1236278
02/2024 19:52:16				PRT8533273	8533273
02/2024 19:42:44				ESP1236278	1236278
02/2024 19:41:56				PRT8533273	8533273

Cook Islands

Uruguay 2 (4000002)

Displaying items 1 - 100 of 184

Show on map Export Close

1

2

One time poll request

Filter | Request | Search | Settings | Map | Statistics | Ship management | Journals

Manage requests

Make requests

Last: 15 minutes

From: 20/02/2024 20:39:36

To:

Max positions per ship: 4

Geographic area filter:

Make requests

Selected Ship(s)

New Ship

IMO: 1236278

Flag: Spain

Access type: SAR

Request type: One time poll of ship

Request reason:

Dates

Start date:

End date:

Send | Reset | Close

One time poll request

Manage requests

Request status

In progress:
Terminated:
Rejected:

Access type

Date	Request type	Start date	End date	Ship name	IMO number
21/02/2024 18:39:29	One time poll of ship	21/02/2024 18:39:29		ESP1236278	1236278
21/02/2024 18:38:55	One time poll of ship	21/02/2024 18:38:55		ARCIMBALDO	9602198
21/02/2024 18:37:00	One time poll of ship	21/02/2024 18:37:02		DEU1724275	1724275
21/02/2024 18:23:32	Archived data request	01/02/2024 00:00:00	21/02/2024 00:00:00	ESP1236278	1236278
21/02/2024 11:45:34	SAR SURPIC				
21/02/2024 11:44:52	Most recent position report	21/02/2024 11:44:52		POL1726273	1726273
21/02/2024 11:43:33	One time poll of ship	21/02/2024 11:43:33		ESP1236278	1236278
21/02/2024 11:42:40	One time poll of ship	21/02/2024 11:42:40		NOR3623279	3623279
19/02/2024 10:38:14	SAR SURPIC				
19/02/2024 10:37:18				ESP1236278	1236278
19/02/2024 10:35:43				ESP1933278	1933278
30/01/2024 15:42:43				ESP1933278	1933278
30/01/2024 15:41:20				ESP1933278	1933278
27/10/2023 13:56:28					1135601
23/10/2023 10:14:32				BUL New	1377773
21/10/2023 07:12:56				NORNE	9612806

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Show on map Export Close

Galapagos
Ecuador
Peru
ESP1236278 (1236278)
GACA1111.1
GAOT1027_1

1

2

Circular SAR SURPIC request

2

SAR SURPIC

Rectangular SAR SURPIC area

S/W corner latitude: ° ' " S

S/W corner longitude: ° ' " W

N/E corner latitude: ° ' " S

N/E corner longitude: ° ' " W

N/S side (in Nautical Mile):

E/W side (in Nautical Mile):

Circular SAR SURPIC area

Radius (in Nautical Mile):

Center latitude: 39 ° 57 ' 34.366 " S

Center longitude: 50 ° 7 ' 2.513 " W

Max positions per ship: 4

User informations

Login : ES_DMO_SAR
Role : SAR
TimeZone : UTC0

[Home page](#) [Help](#) [Log out](#)

Map showing regions: Brazil, Bolivia, Paraguay, Uruguay, Argentina, Ireland, Scotland, Denmark, Netherland, France, Italy.

1

Circular SAR SURPIC request

Manage requests

Selection

Request status

In progress:
Terminated:
Rejected:

Access type

Date	Request type	Start date	End date	Ship name	IMO number	Pos
22/02/2024 08:44:29	SAR SURPIC					
22/02/2024 08:22:34	Most recent position report	22/02/2024 08:22:34		Uruguay 2	4000002	
22/02/2024 08:05:38	One time poll of ship	22/02/2024 08:05:38		ESP1236278	1236278	
22/02/2024 08:02:38	One time poll of ship	22/02/2024 08:02:39		DEU1724275	1724275	
21/02/2024 20:39:14	Most recent position report	21/02/2024 20:39:14		GRC5123273	5123273	
21/02/2024 20:37:56	Most recent position report	21/02/2024 20:37:56		SWE1721273	1721273	
21/02/2024 20:35:46	SAR SURPIC					
21/02/2024 20:32:01	SAR SURPIC					
21/02/2024 20:25:08	SAR SURPIC					
21/02/2024 20:22:23	Position report	21/02/2024 20:22:23		SWE1721273	1721273	
21/02/2024 20:13:29	Position report	21/02/2024 20:13:29		ARCIMBALDO	9602198	
21/02/2024 20:12:28	Position report	21/02/2024 20:12:28		SWE1721273	1721273	
21/02/2024 20:07:45	Position report	21/02/2024 20:07:45		ARCIMBALDO	9602198	
21/02/2024 20:06:49	Position report	21/02/2024 20:06:49		SWE1721273	1721273	
21/02/2024 20:02:51	Position report	21/02/2024 20:02:51		ARCIMBALDO	9602198	
21/02/2024 20:01:08	Position report	21/02/2024 20:01:08		SWE1721273	1721273	
21/02/2024 19:59:16	Position report	21/02/2024 19:59:16		FRA1723271	1723271	
21/02/2024 19:53:14	One time poll of ship	21/02/2024 19:53:14		ESP1236278	1236278	
21/02/2024 19:52:16	One time poll of ship	21/02/2024 19:52:16		PRT8533273	8533273	
21/02/2024 19:42:44	One time poll of ship	21/02/2024 19:42:44		ESP1236278	1236278	

Displaying items 1 - 100 of 185

Show on map Export Close

1

2

Archived data request

Filter Request Search Settings Map Statistics Ship management Journals

Manage requests

Make requests

Last: 15 minutes

From: 20/02/2024 20:39:36

To:

Max positions per ship: 4

Geographic area filter:

1

Make requests

Selected Ship(s)

New Ship

IMO: 2000004

Flag: Namibia

Access type: SAR

Request type: Archived data request

Request reason:

Dates

Start date: 18/02/2024 00:00:00

End date: 23/02/2024 00:00:00

Send Reset Close

2

Archived data request

Manage requests

Selection

Request status

In progress:
Terminated:
Rejected:

Access type

Direction of message

Incoming:
Outgoing:

Request type: All types of requests
Start date:
End date:
IMO:

Date	Request type	Start date	End date	Ship name	IMO number
23/02/2024 15:29:33	Archived data request	18/02/2024 00:00:00	23/02/2024 00:00:00	Windhoek	2000004
23/02/2024 15:25:44	Archived data request	18/02/2024 00:00:00	23/02/2024 00:00:00	Windhoek	2000004
23/02/2024 15:20:05	Archived data request	18/02/2024 00:00:00	23/02/2024 00:00:00	Windhoek	2000004
23/02/2024 15:17:53	Archived data request	01/02/2024 00:00:00	23/02/2024 00:00:00	NOR3623279	3623279
23/02/2024 15:17:16	Most recent position report	23/02/2024 15:17:16		NOR3623279	3623279
23/02/2024 15:16:00	Archived data request	01/02/2024 00:00:00	23/02/2024 00:00:00	ARCIMBALDO	9602198
23/02/2024 11:37:45	SAR SURPIC				
23/02/2024 11:37:15	SAR SURPIC				
23/02/2024 11:36:43	SAR SURPIC				
23/02/2024 11:03:07	SAR SURPIC				
23/02/2024 10:38:31	SAR SURPIC				
23/02/2024 10:36:55	Most recent position report	23/02/2024 10:36:55		ARCIMBALDO	9602198
23/02/2024 10:33:24	SAR SURPIC				
23/02/2024 10:32:47	SAR SURPIC				
23/02/2024 10:32:19	SAR SURPIC				
23/02/2024 10:31:45	SAR SURPIC				
23/02/2024 10:29:30	SAR SURPIC				
23/02/2024 10:28:41	SAR SURPIC				
23/02/2024 10:22:14	SAR SURPIC				
23/02/2024 10:20:08	SAR SURPIC				

Refresh Page 1 of 3 Displaying items 1 - 100 of 266

Show on map Export Close

1



2

Rectangular SAR SURPIC request

User informations

Login : ES_DMO_SAR
Role : SAR
TimeZone : UTC0

Home page Help Log out

2

SAR SURPIC

Rectangular SAR SURPIC area

S/W corner latitude: 0 ° 3 ' 10.44 " N
S/W corner longitude: 10 ° 0 ' 51.994 " W
N/E corner latitude: ° ' " "
N/E corner longitude: ° ' " "

N/S side (in Nautical Mile):
E/W side (in Nautical Mile):

Circular SAR SURPIC area

Radius (in Nautical Mile):
Center latitude: ° ' " "
Center longitude: ° ' " "

Max positions per ship: 4

Make requests Reset Switch Cancel

Rectangular SAR SURPIC request

1

Manage requests

Selection

Request status

In progress:

Terminated:

Rejected:

Access type

+

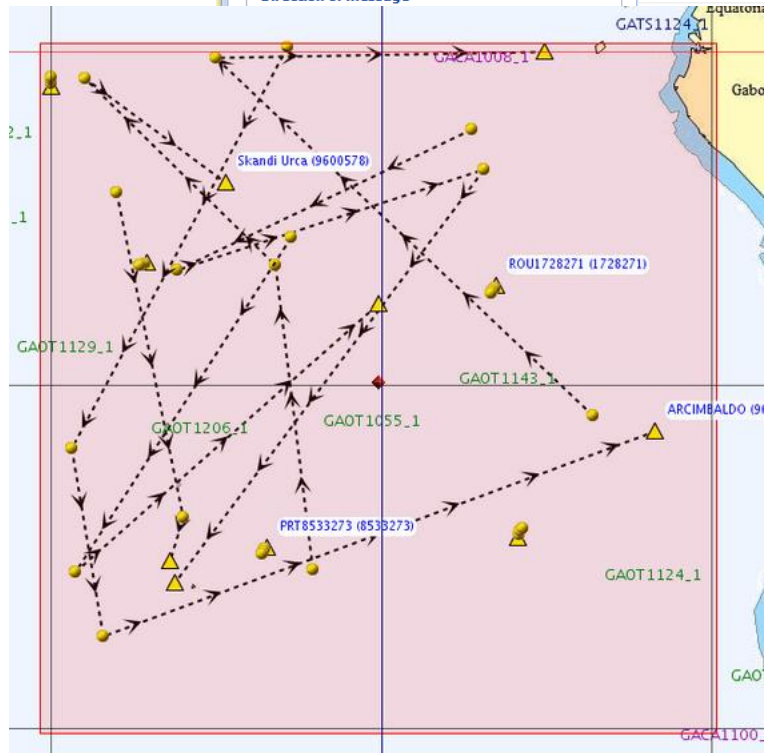
Direction of message

Date	Request type	Start date	End date	Ship name	IMO number
22/02/2024 09:12:12	SAR SURPIC				
22/02/2024 08:44:29	SAR SURPIC				
22/02/2024 08:22:34	Most recent position report	22/02/2024 08:22:34		Uruguay 2	4000002
22/02/2024 08:05:38	One time poll of ship	22/02/2024 08:05:38		ESP1236278	1236278
22/02/2024 08:02:38	One time poll of ship	22/02/2024 08:02:39		DEU1724275	1724275
21/02/2024 20:39:14	Most recent position report	21/02/2024 20:39:14		GRCS123273	5123273
21/02/2024 20:37:56	Most recent position report	21/02/2024 20:37:56		SWE1721273	1721273
21/02/2024 20:35:46	SAR SURPIC				
21/02/2024 20:32:01	SAR SURPIC				
21/02/2024 20:25:08	SAR SURPIC				
21/02/2024 20:22:23	Most recent position report	21/02/2024 20:22:23		SWE1721273	1721273
	SAR SURPIC				
	Most recent position report	21/02/2024 20:13:29		ARCIMBALDO	9602198
	Most recent position report	21/02/2024 20:12:28		SWE1721273	1721273
	Most recent position report	21/02/2024 20:07:45		ARCIMBALDO	9602198
	Most recent position report	21/02/2024 20:06:49		SWE1721273	1721273
	Most recent position report	21/02/2024 20:02:51		ARCIMBALDO	9602198
	Most recent position report	21/02/2024 20:01:08		SWE1721273	1721273
	Most recent position report	21/02/2024 19:59:16		FRA1723271	1723271
	One time poll of ship	21/02/2024 19:53:14		ESP1236278	1236278
	One time poll of ship	21/02/2024 19:52:16		PRT8533273	8533273

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Show on map Export Close



2



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