



Infrastructure name	SAR
Code	
Owner/Institution	Ifremer (Genavir) France
Manager	Jean Xavier Castrec (Jean.Xavier.Castrec@ifremer.fr)
Equipment type	Towed acoustic system
System description	High-resolution multisensor geophysical tool
WEB LINK	http://flotte.ifremer.fr/fleet/Presentation-of-the-fleet/Underwater-systems/SAR
WEB LINK TECH SPECS	http://flotte.ifremer.fr/flotte/content/download/3190/85856/file/07_043%20Guide%20exploitation%20du%20SAR-1.pdf
Technical specifications	refer to : "Guide d'exploitation du Système SAR", référence : GENAVIR - DEE-ESM/SEI/07.043
Weight	2,5 T
Vessels normally used	Atalante, Pourquoi pas?, Thalassa, Suroît
Ship requirements	Handling systems :frame CMU 15 T, Crane CMU 2.5 T 1 spare place for main umbilical winch 1 spare place for principal hydraulic power station 2 spare places for 20" containers 1 spare places for PASISAR container 10'
Technical requirements	
Power	
Frequency	50Hz
Voltage	400Vac-3 phases and 240Vac-2phases / no neutral distributed
KVA	400Vac supply: containers 2*5KV _a , Main umbilical winch 160KV _a
KVA	240Vac supply :3KVA
KVA	240Vac stabilised supply : 3KVA
Hydraulic	
Pressure	
Flow rate	
Compressed air requirements	8 bars
Cooling water	2m ³ /heure sea or fresh water/ 3 bars
Subsea positioning requirements	
Compatible USBL systems	USBL Ixsea system POSIDONIA
Vessel GPS Feed or other requirements	GPS or DGPS Ship sondeur display (Graphical display with depth history available in the SAR control room)
Networking requirements	http://www.ifremer.fr/fleet/systemes_sm/images/victor6000/vem_o.jpg
No. of System configurations possible	
Configuration 1	Normal configuration: complete scientific mission in total autonomy (far from home harbour)
Configuration 2	
Configuration 3	

Configuration 4	
Deck Layout Drawing	
Configuration 1	
Configuration 2	
Configuration 3	
Configuration 4	
System weight/COG in each configuration	
Configuration 1	<p>SAR with support on main deck -</p> <p>20' mechanical work shop container (7 T) on main deck</p> <p>20' Power and Acquisition Container (11 T)</p> <p>Principal hydraulic power station on main deck</p> <p>Main umbilical winch on main deck</p>
Configuration 2	<p>SAR with support on main deck -</p> <p>20' mechanical work shop container (7 T) on main deck</p> <p>20' Power and Acquisition Container (11 T)</p> <p>Principal hydraulic power station on main deck</p> <p>Main umbilical winch on main deck</p> <p>PASISAR container 10' on main deck</p>
Configuration 3	
Configuration 4	
Number of containers/items, Footprint Area required	
Configuration 1	2 standard 20' containers + other items listed before - according configuration drawing mentioned above
Configuration 2	2 standard 20' containers + 1 standard 10' container + other items listed before - according configuration drawing mentioned above
Configuration 3	
Configuration 4	
Deck securing arrangements	
Configuration 1	Containers twist locked into standard iso 20' + chain ratcheted down, rails for repository support bolted on deck or on welded pads - SAR and support strapped to deck -
Configuration 2	
Configuration 3	
Configuration 4	
Deck strength/Deck loading	
Configuration 1	According configuration drawing mentioned above
Configuration 2	
Configuration 3	
Configuration 4	
Transportation requirements (total weight and number of loads)	
Configuration 1	<p>Total weight : 66,2 T</p> <p>Acquisition container 20' N°CNXU 369459, weight 11 T</p> <p>Mechanical work shop container 20' N°MEVU 216 917/1 , weight 7 T</p> <p>SAR container 20' weight 3,5 T</p> <p>Container Open Top weight 10 T</p> <p>Container Open Top weight 8 T</p> <p>Main umbilical winch frame 20', weight 26.7 T</p>
	<p>Total weight : 68 T</p> <p>Acquisition container 20' N°CNXU 369459, weight 11 T</p>

Configuration 2	Mechanical work shop container 20' N'MEVU 216 917/1 , weight 7 T
	SAR container 20' weight 3,5 T
	Container Open Top weight 10 T
	Container Open Top weight 8 T
	Main umbilical winch frame 20', weight 26.7 T
PASISAR container 10', weight 1,8 T	
Configuration 3	
Configuration 4	
V.A.T. + Customs clearance practice	To be confirmed (TBC)
Mobilisation Details	
Typical Mobilisation duration	2 days for configuration 1 (and usual ship)
Typical Mobilisation cost	Crane hire (4 to 6000 €) - Truck hire (10 to 12000 € for far from home port - 2000 € for home port)
Typical Demobilisation duration	2 days for configuration 1 (and usual ship)
Typical Demobilisation cost	Crane hire (4 to 6000 €) - Truck hire (10 to 12000 € for far from home port - 2000 € for home port)
Insurance arrangements	
Own use	Ifremer is its own insurer
Barter	
Charter	To be discussed with the charterer
Co-operation	Ifremer is its own insurer
Transportation insurance	Covered for all risks
Technicians	
Number and type of technicians required to operate system in various scenarios	day operations for Configuration 1: 4 technicians
	day operations for Configuration 2: 5 technicians
	with experience manned sub , mechanic, electric and electronic systems, positioning and data processing
System payloads	
Total maximum payload	
Existing specific payloads	