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SPAS

SONOBOUY PROCESSING ACOUSTIC SYSTEM

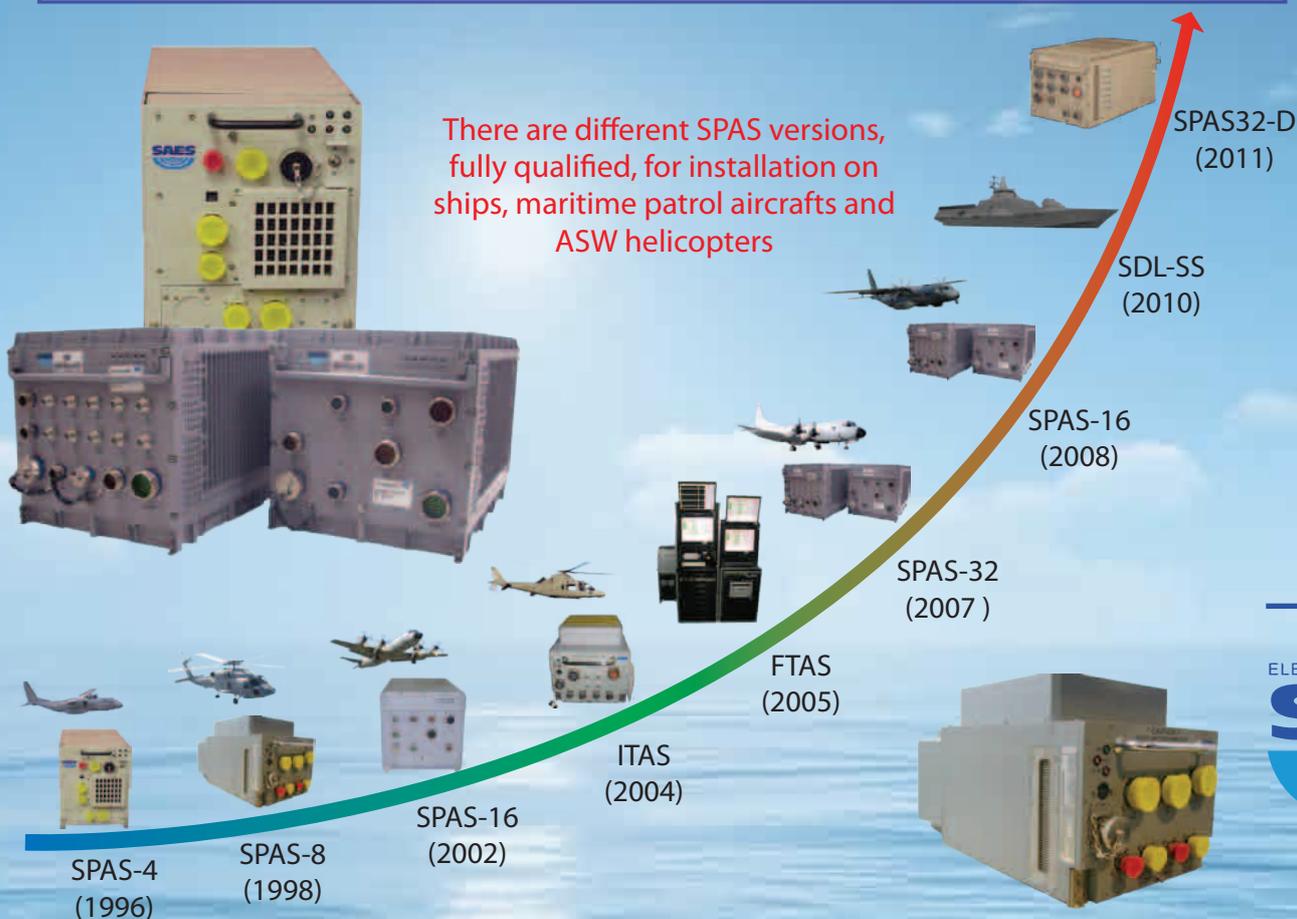
SPAS

The Sonobuoy Processing Acoustic Systems SPAS, provides the Tactical Mission System and the Acoustic Sensor Operators with the means to detect, classify, localize, and track submarines and surface ships based on analysis of acoustic signals acquired by deployed passive and active sonobuoys.



SPAS integrates others equipments as Sonobuoy Receivers, UHF Radio, Digital Recorder, DF and Data Link to conform the complete ASW Subsystem. SPAS can work in stand-alone mode or fully integrated with the platform Tactical Mission System.

There are different SPAS versions, fully qualified, for installation on ships, maritime patrol aircrafts and ASW helicopters



SPAS

SONOBOUY PROCESSING ACOUSTIC SYSTEM



MAIN CAPABILITIES

- SPAS process special purpose sonobuoys, analogue sonobuoys (passive and active), and new digital sonobuoys.
- Acoustic performance prediction calculation, providing ray tracing and maximum detection range (MDR and PDR).
- Detection and contact classification by mean of narrow band analysis, broad band analysis, transient, demon, double demon, swath analysis and interactive ACINT data base.
- Acoustic information displayed in different formats: ALI, LFI, BFI, ARI, DRI, BRI.
- Tactical information associated to the deployed sonobuoys is shown over geographical plots, allowing the use of localization aid tools:
 - Energy plot for passive sonobuoys
 - Multistatic plot for active sonobuoys
 - Manual Cross Fixing, LOFIX, HYFIX, CPA and Lloyd's Mirror tools.
 - Automatic Cross Fixing, Kalman Filter, TMA and DOP-CPA tools.
 - Automatic localized contact alert based on threat filters.
 - CSG and CFS commands emission.
- Massive digital storage device to allow mission data and signal recording for post-flight analysis purposes.



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