

SAMP/T: MATURE TO ENTER INTO FORCES

In the wake of a MoU signature between France and Italy, Eurosam consortium was created in June 1989 by Europe's leading defence companies, now known as MBDA Missiles Systems and THALES, to manage a new family of Air Defence systems for land and naval applications.

These systems are also known as part of the F.S.A.F. ("Forward Surface-to-Air Family") Programme and P.A.A.M.S. ("Principal Anti Air Missile System") programme. Later on the United Kingdom joined the Franco-Italian team, for the naval P.A.A.M.S.

The new systems represent a leap of technology, which has come about as a response to the new threats now confronting land forces and naval fleets.



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EUROSAM Naval systems

The naval systems are shipboard missile systems designed to give the naval units protection against stand-off jammers, missile-armed attack aircraft, command & control aircraft and saturation attacks by sea-skimming and steep-diving anti-ship missiles even when they unmask at close range.

- SAAM-Fr and SAAM-It systems uses ASTER 15 missile associated with ARABEL or EMPAR radar and,
- SAAM-AD system (a derivative system from the PAAMS Programme) uses ASTER 30 & ASTER 15 missiles associated with EMPAR radar.

SAAM-Fr system is in service on board the French Navy's Charles de Gaulle aircraft carrier, as well as onboard the Royal Saudi Navy's SAWARI II type F300B air defence frigates.

The **SAAM-It** has been chosen by the Italian Navy. The first production system will be fitted to the NUM (*Nuova Unità Maggiore – New Major Unit*) Conte di Cavour



The **PAAMS** (Principal Anti-Air Missile System), using Aster 30 missiles, will provide area defence and be fitted to Franco-Italian Horizon frigates and to UK's Type 45 destroyers. Qualification is in progress, with a recent successful firing with Royal Navy trial ship.

Ground Based System : SAMP/T

Both EUROSAM naval and land products share common modules and face similar type of threat: aircraft and missiles of all sorts (antiship, cruise, anti radiation, ballistic)

For the land side EUROSAM developed a new cost-effective and advanced-design extended air defence system called SAMP/T.



SAMP/T is a theatre antimissile system designed to protect the battlefield and sensitive tactical sites (such as airports and sea ports) against all current and future airborne threats, including cruise missiles, anti radiation missiles, piloted and unpiloted aircraft and tactical ballistic missiles

To fulfil these missions effectively, SAMP/T responds to the latest demands both at system and sub-system levels, whilst fulfilling the need for integration into a wider architecture.

SAMP/T offers:

- A genuine anti-missile and anti-aircraft capability covering all the latest threats. This capability is delivered primarily by the reaction time of the fire control system and the manoeuvrability of the missile;
- 360° detection and engagement coverage: the fast rotating multi-

function radar antenna (60rpm) and the vertical missile launch system;

- High firepower compatible with countering multiple, coordinated and multidirectional attack (up to 48 missiles ready to fire);
- The ability to track 100 trajectories and engage 10 of them simultaneously on the basis of priority criteria;
- High resistance to counter-measures;
- Forward strike capability (tactical and strategic mobility);
- Very short system deployment and withdrawal;
- Very low manpower
- Network Centric design, to constitute an integral part of an air defence architecture, though always retaining fully autonomous capability.



SAMP/T system , qualification completed

The system qualification campaign has been conducted at various Italian and French test facilities, in particular the Centre d'Essais de Lancement de Missiles (CELM) where qualification firings took place, as key milestones in the qualification campaign.

The 3 system qualification firings took place in CELM from July 2005 to November 2006, with 100% success.

After the completion of the qualification firings, the 2 systems which were used for system and sub-system qualification have been delivered, respectively to Italian Army and French Air Force, with transfer of title and risk.

2007: first deliveries



The 2 countries are currently conducting the operational evaluation of the SAMP/T, using these first 2 systems. The purpose of the Common Technico Operational Evaluation (ATOC) is to assess the system performances and behaviour and its various operational environments and to have it appropriated by its new users.

4 operational firings are planned during ATOC. The Italian Army successfully proceeded to its 2 firings, in May 2008. French Air Force 2 ATOC firings shall follow before the end of the year.



In parallel, production of the series standard equipment has started, with the first battery roll-out Winter 2006-2007. The first series standard battery has been delivered to a French Air Force base, for instructors training.

Instructors training has been completed and training of the first French operational squadron will start this Summer. In Service Date is planned Fall 2008.

From 2008 onwards 2 to 3 batteries shall be delivered each year, until completion of the Phase 3 contract with France and Italy.



The next step for the Eurosam teams is the qualification of additional features such as L16 MIDS capability and ATBM mode. This should be completed in 2009. In particular one ATBM intercept is slated end of 2009.

In the meantime Eurosam is currently working with its customers on common logistic support for France and Italy, to be organized under the aegis of OCCAR.