Adopted by GREPECAS 14 Meeting (Appendix AG of Agenda Item 3 of the Report)

DRAFT ELEMENTS FOR A REGIONAL STRATEGY FOR SURVEILLANCE SYSTEMS

• Short term: (until 2011)	 Installation of surveillance systems on ground Implementation of SSR radars Mode S only in high-traffic-density approach, en route, and terminal areas, Implementation of monopulse SSR, adaptable to Mode S, in mediumand high-traffic en route and terminal areas. Begin ground implementation for ADS-B (ES Mode S receivers) for en route and terminal areas not covered with radar, and strengthen surveillance in areas covered with SSR Modes A/C and S. Begin the implementation of multilateration, where aircraft respond to SSR Mode A/C or SSR Mode S queries for aerodrome surface movement surveillance
	Aircraft
	 Assignment of 24-bit addressing for unique aircraft identification Complete the implementation of ACAS II systems throughout commercial and general aviation. Use of basic Mode S transponder Begin the update of Mode S transponder so that it can operate in ADS-B and multilateration environments
• Medium term: (2011 – 2015)	 Installation of surveillance systems on ground Implementation of Mode S in those monopulse SSRs that have Mode S capabilities, in areas with coverage and increased air traffic. SSR Mode A/C and SSR Mode S continue to be the main surveillance elements for approach, en route, and terminal areas. Increase ADS-B installations on ground (ES Mode S receivers) for en route and terminal areas not covered by radar, and strengthen surveillance in areas covered by SSR Mode A/C and SSR Mode S. Increase the implementation of multilateration, where aircraft respond to SSR Modes A/C and S queries for surveillance of aerodrome surface movements, and begin the implementation of surveillance applications in approach, en route and terminal areas (wide area multilateration, WAM) in areas that are not covered by radar surveillance and to strengthen radar surveillance
	Aircraft
	• Increase updating of Mode S transponder for ADS-B and multilateration operations

•	Long term: (2015 - 2025)	Installation of surveillance systems on ground
	()	• Begin the non-replacement of SSR Mode A/C radars that have completed their life cycle.
		• Implement ADS-B or multilateration systems to replace the SSRs that have completed their life cycle
		• Pagin the implementation of new ICAO approved surveillance

• Begin the implementation of new ICAO-approved surveillance systems

Aircraft

• New updates of Mode S transponder to support new ADS-B functions, such as improved information transmission capability, more information on board to give the pilot the capability to make decisions on separation.