

Table 1- En-route

Area of Routing	FIRs	Systems Evolution 1995-2005				
		Airspace and Traffic Management	Communications		Navigation	Surveillance
			Mobile Service	Fixed Service		
1	2	3	4	5	6	7
<p><b>Europe - South Atlantic (Oceanic routes)</b></p> <p><b>AR-1</b></p>	<p>Canarias Casablanca Dakar Oceanic Recife<sup>1</sup> Sal</p>	<p>Progressive evolution towards a random RNAV environment from West to East (2000 - 2005);</p> <p>Reduction of longitudinal separation to 10 minutes using Mach Number Technique (1998); extension to route UA302 (1999);</p> <p>Distance based separation 80 NM (1998 - 2002) 50NM (2002 - onwards);</p> <p>Reduction of lateral separation to 50 NM (1999- 2004). Further reduction of lateral separation to 25 NM/30NM (2004 - onwards);</p> <p>RVSM (2000 -2005): progressive evolution towards RVSM FL290/410</p>	<p>DCPC (data) by participating aircraft (Bpa) (2000);</p> <p><del>Extension of VHF voice (1999)</del></p> <p>Full VHF coverage on all ATS routes above FL300, and 150 NM from international airports (2000)</p>	<p>Gradual introduction of ATN compatible bit-oriented procedures (BOP) between AFTN main centres (1999-onwards)</p>	<p>RNP 5: Casablanca and Canarias FIRs (1998);</p> <p>RNP 10: Other FIRs (1999-2004);</p> <p>RNP 5: (2004 - onwards) Other FIRs</p> <p>GNSS as primary-means</p>	<p>Automatic Position Reporting (APR) Bpa trials (2000);</p> <p>Automatic Dependent Surveillance (ADS) on RNP airspace Bpa (from 2000)</p>

Note: 1: Outside AFI. Indicated for coordination.

Table 1- En-route

Area of Routing	FIRs	Systems Evolution 1995-2005				
		Airspace and Traffic Management	Communications		Navigation	Surveillance
			Mobile Service	Fixed Service		
1	2	3	4	5	6	7
<b>Atlantic Ocean (AFI-NAT/SAM interface)</b>  <b>AR-2</b>	Accra Dakar Oceanic Johannesburg Oceanic Luanda Sal	Random routing;  Reduction of longitudinal separation to 10 minutes (2000)	DCPC (data) by participating aircraft (Bpa) (1998);  <del>Extension of VHF voice (1999)</del>  Full VHF coverage on all ATS routes above FL300, and 150 NM from international airports (2000)	Gradual introduction of ATN compatible bit-oriented procedures (BOP) between main AFTN Centres (1998-onwards);  AFTN and ATS/DS (1999)	RNP 10 (2000)  GNSS as primary-means	Automatic Position Reporting (APR) Bpa trials (2000);  ADS (2000)