



This definitive contract occurs a few weeks after the preliminary contract (Authorization To Proceed) signature aimed at defining the program readiness review and developing program milestones.

With a launch mass of approximately 700 kg and an end-of-life power of 1.7 kW, Globalstar satellites will be fitted with 16 transponders from C- to S-band and 16 receivers from L- to C-band. Starting in 2010, Globalstar satellites were launched by 6 to 8 at the same time and will have a lifetime of 15 years. The satellites will be deployed into a 920 km, 52° phasing orbit, from where they will raise themselves to the operational 1410 km, 52° orbit.

This agreement will involve Alcatel Alenia Space's production sites in France, Italy, Spain and Belgium. Globalstar's second-generation satellites will be assembled and integrated in Alcatel Alenia Space facility in Roma (Italy). The payloads will be provided by the company's facility in Toulouse (France); the structures as well as the thermal subsystems being provided by its facility in Cannes (France).

Alcatel Alenia Space participated in the design of the complete first generation system and was responsible for the supply of satellites payloads, structures, thermal subsystems as well as the complete satellite integration. The company was also responsible for manufacturing and installing the Globalstar ground station antenna terminals.

The first batch of a proto-flight unit and 24 satellites was ordered in 2006. The proto-flight unit was upgraded to a flight unit. A second batch of 24 satellites was planned but eventually reduced to 6 in September 2012 due to financial issues. Apparently no valid contract for these 6 satellites was eventually signed.

Nation:	USA
Type / Application:	Communication
Operator:	Globalstar
Contractors:	Alcatel Alenia Space
Equipment:	16 C-to-S-band transponders, 16 L-to-C-band transponders
Configuration:	ELiTeBus-1000
Propulsion:	
Power:	2 deployable solar arrays, 2.4 kW (bol), 1.7 kW (eol), batteries
Lifetime:	15 years
Mass:	700 kg
Orbit:	1410 km × 1410 km, 52° (typical); 920 km, 52° (phasing orbit)

Satellite	COSPAR	Date	LS	Launch Vehicle	Remarks
Globalstar M073 (Globalstar-2 FM1 ?)	2010-054F	19.10.2010	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M074, 75, 76, 77, 79
Globalstar M074 (Globalstar-2 FM2 ?)	2010-054B	19.10.2010	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M073, 75, 76, 77, 79
Globalstar M075 (Globalstar-2 FM3 ?)	2010-054E	19.10.2010	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M073, 74, 76, 77, 79
Globalstar M076 (Globalstar-2 FM4 ?)	2010-054C	19.10.2010	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M073, 74, 75, 77, 79
Globalstar M077 (Globalstar-2 FM5 ?)	2010-054D	19.10.2010	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M073, 74, 75, 76, 79
Globalstar M078 (Globalstar-2 FM6 ?)	2013-005A	06.02.2013	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M093, 94, 95, 96, 97
Globalstar M079 (Globalstar-2 FM7 ?)	2010-054A	19.10.2010	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M073, 74, 75, 76, 77
Globalstar M080 (Globalstar-2 FM8 ?)	2011-080B	28.12.2011	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M082, 84, 86, 90, 92
Globalstar M081 (Globalstar-2 FM9 ?)	2011-033E	13.07.2011	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M083, 85, 88, 89, 91
Globalstar M082 (Globalstar-2 FM10 ?)	2011-080C	28.12.2011	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M080, 84, 86, 90, 92
Globalstar M083 (Globalstar-2 FM11 ?)	2011-033A	13.07.2011	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M081, 85, 88, 89, 91
Globalstar M084 (Globalstar-2 FM12 ?)	2011-080A	28.12.2011	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M080, 82, 86, 90, 92
Globalstar M085 (Globalstar-2 FM13 ?)	2011-033D	13.07.2011	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M081, 83, 88, 89, 91
Globalstar M086 (Globalstar-2 FM14 ?)	2011-080F	28.12.2011	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M080, 82, 84, 90, 92
Globalstar M087 (Globalstar-2 FM15)	2022-064A	19.06.2022	CC SLC-40	Falcon-9 v1.2 (Block 5)	with USA 328, ..., 331
Globalstar M088 (Globalstar-2 FM16 ?)	2011-033B	13.07.2011	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M081, 83, 85, 89, 91
Globalstar M089 (Globalstar-2 FM17 ?)	2011-033F	13.07.2011	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M081, 83, 85, 88, 91
Globalstar M090 (Globalstar-2 FM18 ?)	2011-080E	28.12.2011	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M080, 82, 84, 86, 92
Globalstar M091 (Globalstar-2 FM19 ?)	2011-033C	13.07.2011	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M081, 83, 85, 88, 89
Globalstar M092 (Globalstar-2 FM20 ?)	2011-080D	28.12.2011	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M080, 82, 84, 86, 90
Globalstar M093 (Globalstar-2 FM21 ?)	2013-005B	06.02.2013	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M078, 94, 95, 96, 97
Globalstar M094 (Globalstar-2 FM22 ?)	2013-005C	06.02.2013	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M078, 93, 95, 96, 97
Globalstar M095 (Globalstar-2 FM23 ?)	2013-005D	06.02.2013	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M078, 93, 94, 96, 97
Globalstar M096 (Globalstar-2 FM24 ?)	2013-005E	06.02.2013	Ba LC-31/6	Soyuz-2-1a Fregat	with Globalstar M078, 93, 94, 95, 97

	Globalstar M098 (Globalstar-2 FM26)	-	Cancelled	with Globalstar M099, 100, 101, 102, 103
	Globalstar M099 (Globalstar-2 FM27)	-	Cancelled	with Globalstar M098, 100, 101, 102, 103
	Globalstar M100 (Globalstar-2 FM28)	-	Cancelled	with Globalstar M098, 99, 101, 102, 103
Launch Vehicles	Globalstar M101 (Globalstar-2 FM29)	-	Cancelled	with Globalstar M098, 99, 100, 102, 103
Upper Stages	Globalstar M102 (Globalstar-2 FM30)	-	Cancelled	with Globalstar M098, 99, 100, 101, 103
Engines				
Launch Sites	Globalstar M103 (Globalstar-2 FM31)	-	Cancelled	with Globalstar M098, 99, 100, 101, 102
Chronology				
	Globalstar M104	-	Cancelled	
Spacecraft by nation	Globalstar M105	-	Cancelled	
Spacecraft by type	Globalstar M106	-	Cancelled	
S/C Platforms	Globalstar M107	-	Cancelled	
	Globalstar M108	-	Cancelled	
Crewed Missions	Globalstar M109	-	Cancelled	
Astronauts	Globalstar M110	-	Cancelled	
	Globalstar M111	-	Cancelled	
Links	Globalstar M112	-	Cancelled	
Books				
Unit Calculator	Globalstar M113	-	Cancelled	
	Globalstar M114	-	Cancelled	
Gunter's Homepage	Globalstar M115	-	Cancelled	
	Globalstar M116	-	Cancelled	
	Globalstar M117	-	Cancelled	
Quicksearch	Globalstar M118	-	Cancelled	
	Globalstar M119	-	Cancelled	
	Globalstar M120	-	Cancelled	



Further Globalstar missions:

[Globalstar M001 - M72 \(1st generation\)](#) (LS-400)
[Globalstar M073 - M103 \(2nd generation\)](#) (ELiTeBus-1000)

[Globalstar M104 - M120 \(3rd generation\)](#)
Globalstar M121 - +M170 (4nd generation)

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