



OPERATION ACTIVE RESOLVE INTELLIGENCE REPORT RUSSIAN S-300 VARIANTS

1 General Information

This intelligence report contains information about the Russian S-300 variants.

2 Intelligence

2.1 Russian S-300 system

Russian have developed advanced SAM systems the recent years. The capability of these systems has not been know. VID have received a Russian internal document about the S-300 system from trusted sources.

The following pictures are extracted from the Russian document:

DISCLAIMER:

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				Long Range Strategic Systems														
General Information	Soviet/Russian designation		S-300PS				S-300PMU1		S-300PMU2 Favorit		S-300V		S-300VM					
	NATO designation		SA-10B Grumble B				SA-20A Gargoyle A		SA-20B Gargoyle B		SA-12 Gladiator/Giant		SA-23 Antey-2500					
	IOC		1982				1993		1997		1987		2000					
	Role		Air defense of airfields and points of interest				Air defense of airfields and points of interest Point missile and PGW defense		Air defense of airfields and points of interest Point missile and PGW defense		Air defense of Army/Corps HQ near the frontline Tactical ballistic missile and PGW defense		Air defense of Army/Corps HQ near the frontline Theatre ballistic missile and PGW defense					
	Missiles	Designation	5V55R		5V55RUD		48N6		48N6E2		9M82		9M83		9M82M		9M83M	
Range		75km		90km		150km		200km		100km		75km		250km		100km		
Mandatory units	Launchers		5P85DE (smart TEL)	5P85SE (dumb TEL)	5P85DE (smart TEL)	5P85CE (dumb TEL)	5P85DE (smart TEL)	5P85CE (dumb TEL)	5P85SE2		9A82		9A83		9A82ME		9A83ME	
	Command Post		54K6				54K6		54K6E2		9S457		9S457ME					
	Acquisition Radar	Designation	64H6 Big Bird				64H6E Big Bird		64H6E2 Big Bird		9S15 Bill Board		9S15M2 Bill Board					
		Range	160km				300km		330km		240km		320km					
	Fire control radar	Designation	30H6 Flap Lid (mast or truck-mounted)				30H6E Tomb Stone (mast or truck-mounted)		92H6E Grave Stone		9S32 Grill Pan		9S32ME Grill Screen					
		Range	160km				160km		270km		150km		230km					
	Optional units	Specialized Radar	Designation	5N66 Clam Shell low-altitude surveillance (on 40B6M mast)				5N66E Clam Shell low-altitude surveillance (on 40B6M mast)		5N66E Clam Shell low-altitude surveillance (on 40B6M mast)		9S19 High Screen ballistic missile defense radar		9S19M2 High Screen ballistic missile defense radar				
Range			60km				120km		120km		120km		310km					
Upper Echelon Command Post		Polyana-D4M1				Polyana-D4M1		Polyana-D4M1		Polyana-D4M1		Polyana-D4M1						
Notes			Only one FCR can be used at a time. Chose between the mast-mounted and truck-mounted versions of the 30H6. One "smart" TEL should control two "dumb" TELs. These do not have all the electronic required for firing, and are slaved to the "smart" TEL.				The S-300PMU1 can also use all the radars from the previous version of the S-300P (PS). For instance, the legacy 5N66 can be used instead of the 5N66E.		Starting with the S-300PMU2, all TELs are "smart" and can be used independently from one another. The S-300PMU2 can also use all radars from the previous S-300P variants (PS, PMU1).		The S-300V differs from the S-300P family. It was designed with an emphasis on ballistic missile defence. It also has better cross-terrain mobility. The S-300V's missiles have a shorter range than equivalent missiles from the S-300PMU1/2, but they are significantly faster.		Incremental update of the S-300V/SA-12 system. As the performance is much better than those of the legacy SA-12, it received a new NATO designation, SA-23.					

		SAM System			
Unit type	S-300PS/SA-10B	S-300PMU1/SA-20A	S-300PMU2/SA-20B	S-300V/SA-12	S-300VM/SA-23
Command Post	SAM SA-10B S-300PS 54K6 CP	SAM SA-20 S-300PMU1 54K6 CP	SAM SA-20B S-300PMU2 CP 54K6E2	SAM SA-12 S-300V 9S457 CP	SAM SA-23 S-300VM 9S457ME CP
Acquisition Radar	SAM SA-10B S-300PS 64H6E SR	SAM SA-20 S-300PMU1 64H6E SR	SAM SA-20B S-300PMU2 SR 64N6E2	SAM SA-12 S-300V 9S15 SR	SAM SA-23 S-300VM 9S15M2 SR
Fire Control Radar	SAM SA-10B S-300PS 40B6M TR	SAM SA-20 S-300PMU1 TR 30N6E	SAM SA-20B S-300PMU2 TR 92H6E(truck)	SAM SA-12 S-300V 9S32 TR	SAM SA-23 S-300VM 9S32ME TR
Launcher(s)	SAM SA-10B S-300PS 5P85SE LN	SAM SA-20 S-300PMU1 LN 5P85CE	SAM SA-20B S-300PMU2 LN 5P85SE2	SAM SA-12 S-300V 9A83 LN	SAM SA-23 S-300VM 9A83ME LN
	SAM SA-10B S-300PS 5P85SU LN				
	SAM SA-10 (5V55RUD) S-300PS LN 5P85CE	SAM SA-20 S-300PMU1 LN 5P85DE		SAM SA-12 S-300V 9A82 LN	SAM SA-23 S-300VM 9A82ME LN
	SAM SA-10 (5V55RUD) S-300PS LN 5P85DE				
Specialized Radar	SAM SA-10B S-300PS 40B6MD SR	SAM SA-20 S-300PMU1 SR 5N66E	SAM SA-20 S-300PMU1 SR 5N66E	SAM SA-12 S-300V 9S19 SR	SAM SA-23 S-300VM 9S19M2 SR
Upper Echelon Command Post	Polyana-D4M1 C2 node	Polyana-D4M1 C2 node	Polyana-D4M1 C2 node	Polyana-D4M1 C2 node	Polyana-D4M1 C2 node

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VID guide

	Command post	Acquisition Radar	Fire Control radar	Optional Radar	Launchers			
S-300PS	54K6	64H6 Big Bird	30H6 Flap Lid (mast or truck-mounted)	5N66 Clam Shell	5P85DE (smart TEL)	5P85DE 5V55RUD (smart TEL)	5P85SE (dumb TEL)	5P85CE 5V55RUD (dumb TEL)
S-300PMU1	54K6E	64H6E Big Bird	30H6E Tomb Stone (mast or truck-mounted)	5N66E Clam Shell	5P85DE (smart TEL)		5P85CE (dumb TEL)	
S-300PMU2	54K6E2	64H6E2 Big Bird	92H6E Grave Stone (only truck-mounted variant available)	5N66E Clam Shell	5P85SE2		-nil-	
Picture								

	Command post	Acquisition Radar	Fire Control radar	Optional Radar	Launchers			
SA-12	9S457	9S15 Bill Board	9S32M Grill Pan	-	9S19 High Screen	9A83	9A82	
SA-23	9S457ME	S15M2 Bill Board	-	9S32ME Grill Screen	9S19M2 High Screen	9A83ME	9A82ME	
Picture								

Radar & Missile ranges



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Radar & Missile ranges

S-300PMU1 / SA-20A Gargoyle A



S-300PMU2 Favorit / SA-20B Gargoyle B



Radar & Missile ranges

S-300PS / SA-10B Grumble B



ASSESSMENT:

It is **HIGHLY LIKELY** that the information is correct and that the capabilities of the systems are as shown on the pictures

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3 VID Information gaps

3.1 Intelligence Requirements

The following are intelligence requirements VID request support from VIS to answer.

3.1.1 Intelligence Requirement 9 (IR 9): What is the status of Russian SAM's in the area of operation?

- Are Russian S-300 systems in the area of operation?
- Are Russian S-300 capabilities as described in this report?

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