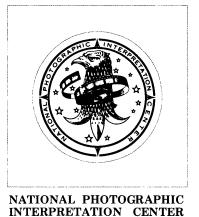
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PHOTOGRAPHIC INTERPRETATION REPORT

STATUS OF THE CSA-1 (SAM) SYSTEM

Top Secret

SEPTEMBER 1975

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sites defend the major industrial and administrative center of Sinkiang. They are the westernmost SAM sites in China and the first significant SAM deployment west of the 95th meridian. The only previous SAM deployment west of the 95th meridian occurred when a field deployed site was established near Wu-sha-ta-la in June 1967. It had been abandoned by January 1968.

(Continued p. 8)

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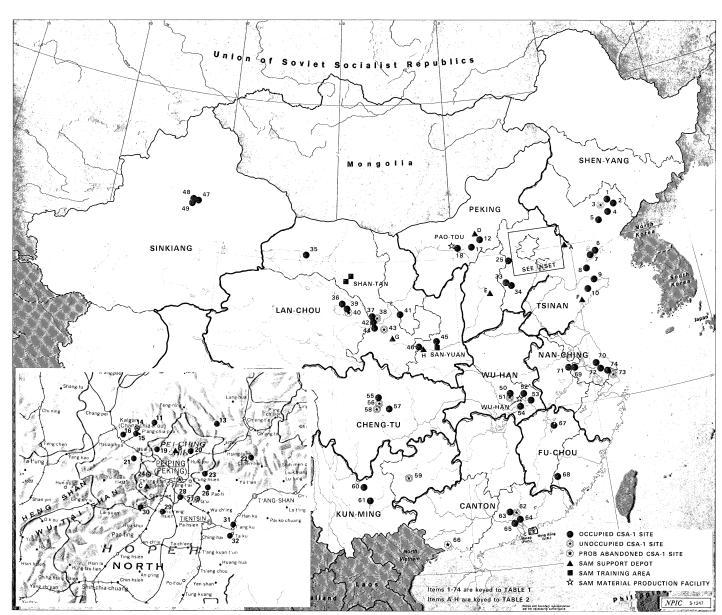


FIGURE 1. LOCATION OF CSA-1 SITES

Table 1. Status and Types of CSA-1 (SAM) Sites, China (Items keyed to Figure 1)

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	Site Designator	Geographic	Occu-	Status Unoc-	Hard-	Type Perma-		•
tem	& BE No	Coordinates	pied	cupied	ened	nent	Field	Remarks
en-ya	ing Military Region							2.6 (1)
	Shen-yang C04-21	42-06-11N 123-41-01E	Х		x	X		Bunkered guidance control building
	Fu-shun D08-21	42-00-50N 124-36-30E	x		x	×		Bunkered guidance control building
	Shen-yang B05-21	41-59-38N 123-44-28E		x		x		Last occupied Oct 72; Site deteriorating.
	Pen-chi B10-21	41-15-39N 124-10-23E	x		×	x		Bunkered guidance control building
	An-shan	41-00-11N	x			×		Permanent site was unoccu-
	B23-21	122-48-25E						A probable associated occupied field training site was 16 nm south-southwest. The equipment had returned and the training site was
	Lu-ta C04-21	39-19-07N 121-58-01E	x			×		abandoned.
	Lu-ta C26-21	38-46-55N 121-09-50E	х		×	×		Bunkered guidance control building
inan l	Military Region			•				
	Ta-chin	38-18-38N 120-49-18E	×		x	×		Site has rail-served cave-stored launchers and an elevator- mounted guidance radar. Three SAM support trucks were ob-
	Yen-tai D30-21	37-45-51N 120-43-06E	Х			X		
1	Lai-yang A36-21	37-01-14N 120-41-47E	X				X	Site is on a small-arms firing range adjacent to Lai-yang Hq Inf Div A Army Bks AL 1 Launchers are
								often net-covered. Occupied over five yrs.
king	Military Region							
	Chih-cheng B05-21	41-07-28N 116-05-15E	Х		x	х		Elevator guidance radar
2	Chi-ning A30-21	41-04-30N 112-58-41E	x		X	×		Deeply revetted and covered guidance control area. On photography five launchers were operationally field de-
								ployed adjacent to the north edg of their revetted positions. All launchers had been returned to their revetted positions
3	Cheng-te C27A-21	40-54-42N 117-19-18E	x		X	x		Elevator guidance; Cocoons at five launch positions
ļ	Chang-chia-kou D10-21	40-47-35N 115-35-43E		×			X	The equipment from this site wa redeployed to a new hardened site. Chang-chia-kou D10A-21 2. nm southwest
5	Chan-chia-kou D10AA-21	40-45-50N 115-33-50E	x		x	×		Elevator guidance area. A field training site, possibly associated with this site or Chang-chia-kou B13-21, was identified at 40-23-20N 115-15-30E on photograph. No coverage of this site was available on photograph

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Table 1. (Continued)

			Site	Status	Site	Type		
tem	Site Designator & BE No	Geographic Coordinates	Occu- pied	Unoc- cupied	Hard- ened	Perma- nent	Field	Remarks
6	Chang-chia-kou B13-21	40-43-05N 115-06-22E	x		×	X		A field training site, possibly associated with this site or Chang-chia-kou D10A-21 was identified at 40-23-20N 115-15-30E on photography No coverage of this site was available on photo-
7	Hu-ho-hao-te C12-21	40-41-55N 112-04-02E	×			x		graphy Three launchers and the guidance radar were operationally deployed adjacent to the west edge of the site on photography All equipment had been returned to the revetted positions
8	Pao-tou A11-21	40-31-37N 110-07-47E	x			×		Site is usually occupied; however, it was nonoperational on photography Only one launcher remained at the site. A field training site was not identified in the immediate vicinity.
9	Pei-ching D33-21	40-27-23N 116-01-10E	X		X	×		Elevator guidance radar site was non- operational on photography when only one launcher was ob- served. A field training site 12.5 nm southwest was occupied by five launch ers on photography hardened site was reoccupied
20	Pei-ching C03-21	40-21-10N 116-41-02E	х		×	x		Elevator guidance radar_four_cocoons On photography the launche and guidance radar were deployed in the old permanent site 300 feet north. On photography both the hardened site and the old side were unoccupied. By Jan 75 the old site had been reoccupied.
11	Pei-ching E30A-21	40-13-10N 115-25-00E	х		x	X		Elevator guidance radar, six cocoons.
2	Tang-shan D36-21	40-12-30N 118-06-54E	x		X	×		Elevator guidance radar. Site was unoc cupied on photography O cupied field training site was observed 4.nm east-northeast on the same date.
3	Pei-ching D08-21	39-59-45N 117-03-38E	×			X		On photography the site was observed occupied for the first time since Nov 68. Site was unoccupied on photography and reoccupied
4	Pei-ching D28-21	39-58-42N 115-42-40E		X		X		Site has been unoccupied for more than four years. The site probably has been used for construction support for nearby dam. Construction materials were no longer present by but had been reoccupied
5	Hsi-ho-ying A19-21	39-53-46N 114-44-58E	×		×	X		Elevator guidance radar; revetments under construction. Site was unoccupied on photography but had been reoccupied
6	Pei-ching D11-21	39-48-18N 117-02-29E	x			×		
7	Pei-ching C14-21	39-34-24N 116-45-38E		x		x	**	Site has been unoccupied over four years and is used for an air warning radar site; Chiu-wu-ching AW Radar Site
28	Pei-ching C18-21	39-33-39N 116-24-50E	X			X		On photography the site was observed occupied for the first time since October 69. On the site was nonoperational. Only three launchers remained at the site, all in a single launch revetment all equipment had been returned and the site appeared to be operational.

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Table 1. (Continued)

			Cit		0:-	 		· · · · · · · · · · · · · · · · · · ·
Item	Site Designator & BE No	Geographic Coordinates	Occu- pied	Status Unoc- cupied	Hard- ened	Type Perma- nent	Field	Remarks
29	Pei-ching D20-21	39-22-40N 116-07-49E	x			×		Site was unoccupied on photography An occupied field training site was 5.5 nm north on photography The permanent site was reoccupied and the field site was abandoned on photography Three probable SAM support vehicles
30	Pei-ching F23-21	39-21-58N 115-32-57E	×		×	X		Elevator guidance radar; cocoons at three launch positions.
31	Tang-ku A36-21	39-07-49N 117-37-26E	х			×		On photography the site was occupied for the first time since May 71. On photography the site was nonop- erational. The guidance radar was gone and launchers were on bogie wheels. On photography the site was unoccupied but had been reoccupied
32	Tang-ku B23-21	38-51-29N 117-26-00E	x			X		Site is usually occupied but was un- occupied for first time since July/
33	Shih-chia-chuang C32-21	38-16-54N 114-08-59E	×		x	x		training site has not been identified. Elevator guidance radar, cocoons. Site was nonoperational on photography when only two launchers were observed. A four-position field deployed site was identified at Shih-chia-chuang/Ta- kou-tsun Afld The hardened site was reoccupied on photography and the field deployed site had been
34	Shih-chia-chuang C10-21	37-59-42N 114-55-11E	х			×		abandoned. Permanent site was complete on photography The temporary field site has been abandoned.
Lan-cho	u Military Region							
35	Yu-men A12A-21	40-13-08N 097-11-59E	×			×		
36	Kang-cha A22-21	37-17-30N 100-06-29E	x				Х	Occupied over three years
37	Lan-chou G34-21	36-59-10N 103-18-10E	X			×	X	The permanent site is unoccupied and under construction. CSA-1 equipment is field deployed adjacent to the permanent site. On photography the site was nonoperational with only three launchers and eight missile transporters observed. A field training site had not been identified.
38	Lan-chou F35-21	36-59-05N 103-18-12E		×		×		The equipment had probably been moved to Lan-chou SAM Site G34-
39	Hai-yen B25A-21	36-49-10N 100-45-44E	X			X		
40	Hai-yen B25-21	36-48-53N 100-45-51E		×			×	Abandoned
41	Lan-chou E04-21	36-38-47N 104-13-18E	x			X		
42	Lan-chou C29-21	36-13-03N 103-12-21E	X		X	×		Bunkered buildings in guidance area.
43	Lan-chou B12A-21	35-57-21N 104-01-41E		×		×		Unoccupied over five years.

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Table 1. (Continued)

				Table 1.	(Continued	(1)		
tem	Site Designator & BE No	Geographic	Sit Occu- pied	e Status Unoc- cupied	Si Hard- ened	te Type Perma- nent	Field	Remarks
		Coordinates		cupiea		X	Field	
4	Lan-chou C25A-21	35-53-55N 103-16-28E	×		×	X		Bunkered buildings in guidance area. On photography the site was nonoperational with only three launchers observed. A field training site had not been
5	San-yuan E28-21	34-44-35N 108-03-15E	x				x	observed. Occupied over five years; probably associated with San-yuan SAM
3	Pao-chi	34-27-15N	Х			×		Training Area.
,	B07-21	107-21-43E	^			^		
nkian	g Military Region							
7	Wu-lu-mu-chi	43-57-41N	×			X		All three Wu-lu-mu-chi SAM sites
	B33-21	087-26-22E						are newly constructed. They were identified on photography
3	Wu-lu-mu-chi	43-56-43N	X			X		All three Wu-lu-mu-chi SAM sites
	A03-21	087-40-48E						are newly constructed. They were identified on photography
9	Wu-lu-mu-chi	43-44-24N	X			X		All three Wu-lu-mu-chi SAM sites
	A23-21	087-29-03E						are newly constructed. They were identified on photography
u-han	Military Region							
)	Wu-han NW F32-21	31-16-35N 113-37-20E	Х			x		Site first observed occupied on photography
ı	Wu-han	31-07-08N		X			×	Site has been unoccupied
	E32-21	113-36-19E						The SAM unit probably moved to Wu-han SAM Site NW F32-21.
2	Wu-han B03-21	30-52-09N 114-26-21E	х		Х	×		Bunkered buildings in guidance area.
3	Wu-han B20-21	30-19-22N 114-12-52E	X		X	×		Bunkered buildings in guidance area. On photographythe site was nonoperational with only three launchers observed.
1	Huang-shih A02A-21	30-17-06N 115-08-57E	×		x	x		A field training site had not been identified. Bunkered buildings in guidance area.
hena-t	u Military Region							
5	Cheng-tu C33-21	30-59-50N 103-45-32E	x			×		
6	Cheng-tu B26-21	30-36-45N 103-52-40E		x			X	Unoccupied over three years
7	Cheng-tu B13-21	30-30-05N 104-18-17E	x			×		Site was unoccupied in May 74 and reoccupied by Jul 74.
3	Cheng-tu D23-21	30-13-37N 103-30-26E		X	х	X		Completed by May 74. Bunkered buildings in guidance area.
	ng Military Region					.,		
)	An-shun B12-21	26-09-15N 106-07-08E		X		X		Under construction.
)	Kun-ming C27-21	25-00-47N 102-17-41E	X				Х	
1	Kun-ming B17-21	24-43-47N 102-47-01E	x			×		Under construction.
anton	Military Region							
		22 20 400		v		v		Site was identified us don and a
2	Kuang-chou C36-21 0614-03127	23-30-40N 113-16-50E		×		X	•	Site was identified under construc- tion in November 74. Equipment from Kuang-chou SAM Site B34-

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Table 1. (Continued)

					Continuea	, 		
Item	Site Designator & BE No	Geographic Coordinates	Site Occu- pied	Status Unoc- cupied	Site Hard- ened	Type Perma- nent	Field	Remarks
63	Kuang-chou B34-21	23-25-22N 113-09-25E	×				х	No permanent SAM-related facili- ties. Site uses part of an army bar- racks area for support.
64	Kuang-chou A08-21	23-09-02N 113-23-57E	X			X		racks area for support.
3 5	Kuang-chou B28-21	23-08-32N 113-03-16E	x		x	X		Bunkered buildings in guidance area.
36	Chin-chou D23-21	21-33-34N 108-08-36E		×				Abandoned
=u-cho	u Military Region							
5 7	Nan-chang C14-21	28-20-32N 116-14-39E	x		x	X		Bunkered buildings in guidance area.
68	Lien-cheng A21-21	25-38-47N 116-43-10E	X		×	x		Bunkered buildings in guidance area.
Nan-ch	ing Military Region							
69	Nan-ching C01-21	32-27-16N 118-49-30E	x		x	x		Launcher hold bunkers.
0	Nan-tung C31-21	32-15-17N 120-31-15E	x				X	In the Mou-tou Airfield dispersal area hardstands.
71	Nan-ching A16-21	31-58-18N 118-48-43E	×				X	Site was occupied in Sep 74 and Nov 74 for the first time since 1972. A possibly associated three-position field training site, Wu-hu SAM Site A03-21 was identified at 31-23-30N 118-23-47E. It was occupied on photography
72	Shang-hai B36-21	31-27-03N 121-26-02E	X			X		None
73	Shang-hai B09-21	31-14-50N 121-44-30E		X		×		Site was occupied in Apr 74 and unoccupied
74	Shang-hai A02A-21	31-20-10N 121-29-50E	×				×	This field site was identified in Aug 74 and remained occupied on photo graphy
	<u></u>	Totals	60	14	27	34	13	

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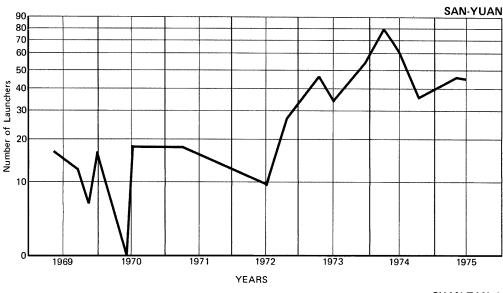
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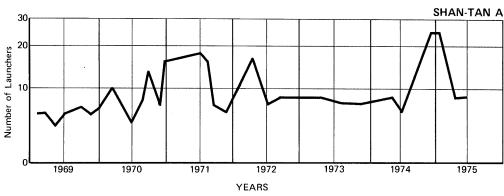
of occupied site and facilities we	s and the number of launchers observed at	ventory is an estimate based on the number the permanent training facilities. All sites erage of two battalions have been observed Complex since January
Training Activit	y	
Area B training, while	, Shan-tan SAM Training Area A . The San-yuan training area is pr	es in China: San-yuan SAM Training Area and Shan-tan SAM Training obably used for electronics and procedural an-tan training areas. Thus, training at the fore deployment to the field.
of CSA-1 laund decrease in the at the Shan-tan followed by ne had a level of of 81 launcher the number of level of activity 1974, however, activity at Santhe Peking MR Sinkiang MR. Tactivity at Shar	hers and support equipment observed at number of launchers at San-yuan is obser training areas. Decreases in the number of w SAM battalion deployment. Since Octobraining activity that has been unusually was observed on photography of April launchers had decreased by 44. At the was observed on photography between there has been an increased level of activity and by June 1975 three additional battalinese new battalions were identified during activity and Training Area B. Since training activities.	g facilities can be estimated by the number the facilities (Figure 3). Usually, when a wed, it is followed by an observed increase launchers at the Shan-tan areas are usually ober 1972, the San-yuan training area has high and of long duration. A high count 1974. Between April and October 1974, Shan-tan training facilities a relatively low April 1972 and March 1974. Since April wity, apparently related to the decrease in eployed SAM battalions were identified in lions were identified near Wu-lu-mu-chi in and immediately after the increased training ity has continued at a relatively high level loyment of the CSA-1 system will continue.

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10. CSA-1 field training also appeared to have a high priority during the reporting period. An extensive program was in progress by May 1974. Photography showed a significant number of occupied permanent sites either nonoperational or unoccupied for the first time. At least 19 of the 60 deployed SAM battalions probably have engaged in field training exercises between May 1974 and July 1975. The method of accomplishing this field training varied; however, in most cases all or part of the battalion was redeployed to a temporary field site within 5 to 15 nautical miles (nm) of the permanent site. This training was illustrated at Shih-chia-chuang SAM Site C32-21 (Figure 4) and at its associated field training site (Figure 5). After the training mission of the battalion was accomplished, the battalion returned to its permanent site. Thirteen temporary field training sites were identified on photography between May 1974 and June 1975. Nine of these temporary sites could be associated with known permanent sites. Two of the 13 field training sites were observed at the north edge of Ta Hai (lake) in the Inner Mongolian Autonomous Region on photography





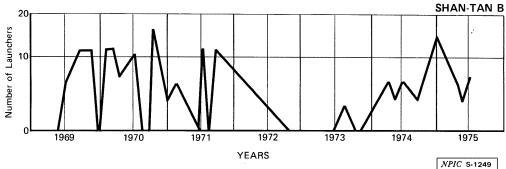


FIGURE 3. LEVELS OF ACTIVITY AT PERMANENT TRAINING FACILITIES

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ppeared to be continui lite B23-21 were probab o be nonoperational an 320-21, Lan-choy SAM 975 with only three la	sites. On the ng. The bate of the late of	photography ne latest coverage of June a stalions assigned to Pao-tou in field training. Both sites a ed respectively on photogra 1 and Lan-chou SAM Site (served at each site. Field tra diate vicinity of the perma	nd July 1975, field SAM Site A11-21 re usually occupied phy of June 1975. C25A-21 were none aining sites for the	and Tang-ku SAM but were observed Wu-han SAM Site operational in July	
Construction Activity					
pace during this report permanent sites have u and four of the other	ting period. ndergone n permanent	M sites and improvement of Since March 1974, three ew construction activity. To sites have been completed anticipated as China continued.	hardened permane wo of the hardene since March 1974	nt sites and eight ed permanent sites b. Construction of	
SAM Support Depots					
his reporting period (F 5), 28.6 nm north of P	igure 1 and eking, was d 11 probab	oort depots in China includin Table 2). Peking SAM Suppidentified on photography one ole sustainer airframes were cation Industry.	port and Maintenan	ce Facility (Figure when two CSA-1	
anisters were observed SAM depot (Figure 7), ransporters ever observ	at the eigh which is the red at one	missile transporters, 108 can t depots on the latest availa e largest depot in China, ha facility in China on photograccess to the rest of the	ble photography. T id the highest cour caphy	ai-yuan/Shou-yang	
				(Continued p. 14)	
Table 2. Equipme	ent Levels at SA	M Support Depots (High Count by Yea	r) (Items keyed to Figure	1)	
Name & BE No	Geographic Coordinates			Remarks	
Chin-huang-tao SAM/ Cruise Missile Support Facility	40-01-48N 119-27-23E			Latest coverage reported Nov 74	
Pei-ching SAM Support A Maintenance Facility	40-23-30N 116-22-40E			Latest coverage reported Nov 74. Eleven probable sustainer airframes obser-	

		Geographic
Item	Name & BE No	Coordinates
А	Chin-huang-tao SAM/ Cruise Missile Support Facility	40-01-48N 119-27-23E
В	Pei-ching SAM Support A Maintenance Facility	40-23-30N 116-22-40E
С	To-li SAM/UG Storage Depot	39-50-00N 115-49-40E
, D	Tao-pu-chi Army Bks	40-50-55N 112-01-53E
E	Tai-yuan/Shou-yang SAM Depot	37-52-15N 113-09-17E
F	Ching-tao Prob SAM Support Facility	36-06-53N 120-21-55E
G	Lung-hsi SAM Depot	34-59-00N 104-34-49E
н	Pao-chi SAM Depot UG Totals:	34-20-17N 107-04-25E

^{*}No photographic coverage.

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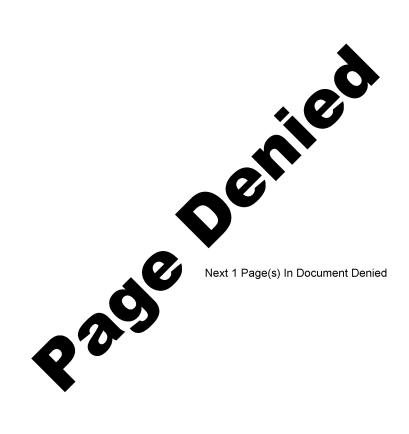


Table 3. CSA-1-Related Equipment Production 25X1 Geographic Name & BE No Coordinates Remarks Pao-tou Missile & 40-41-07N No launchers observed on photography 25X1 109-52-26E Artillery Plant 447 30-33-40N Plant prob produces two types of canister Wu-han Missile & 114-15-40E transporter trailers, with and without fin Motor Vehicle Assembly Plant box wells Han-yang 25X1 *No acceptable photographic coverage. CSA-1-Related Equipment Production 14. Pao-tou Missile and Artillery Plant 447 is the production facility for CSA-1 missile launchers. Since 1972, the number of missile launchers observed at the plant has been relatively constant, with six to 12 launchers usually observed (Table 3). However, on photography from September 1973 to June 1974, no launchers were observed. Launchers were again seen at the plant on photography of June 1974 through May 1975. 15. Wu-han Missile and Motor Vehicle Assembly Plant, Han-yang, is known to have been producing CSA-1 canister transporter trailers as early as October 1970. During this reporting period, as many as 18 trailers were observed there (Table 3). 25X1 REFERENCES 25X1 DOCUMENT PIR/044/74, Status of CSA-1 (SAM) Sites, China, Jul 74 (TOP SECRET RUFF 25X1(1 1. NPIC. 25X1 RELATED DOCUMENT US Army Mobility Equipment Research and Development Center, Fort Belvoir Olotka, Alexander. "Developments in Camouflage Paints and Coating," SRI-3-4901, Proceedings of the Symposium on Passive Countersurveillance, Chap. 18, p. 18-1, 3-5 Apr 73 (SECRET) REQUIREMENT Project 121001NC 25X1 - 14 -

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