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ICSE Main Menu	
HCR7730 Integrated Cryptographic Service Facility	
OPTION ===>	
Enter the number of the desired option.	
1 COPROCESSOR MGMT – Management of Cryptographic Processors	
2 Master Key Master key set or change, CKDS/PKDS Processing	
3 OPSTAT Installation Options	
4 ADMINCNTL Administrative Control Functions	
5 UTILITY ICSF Utilities	
6 PPINIT Pass Phrase Master Key/CKDS Initialization	
7 TKE TKE Master and Operational Key processing	
8 KGUP Key Generator Utility processes	
9 UDX MGMT Management of User Defined Extensions	
Press ENTER to go to the selected option.	
Press END to exit to the previous menu.	



IBM Americas ATS, Was	shington Systems Center	IBM
ICSE Main Menu		
HCR7730 Int	egrated Cryptographic Service Facility	
OPTION ===>		
Enter the number of the d	esired option.	
1 COPROCESSOR MGMT	7 – Management of Cryptographic Processors	
2 Master Key	Master key set or change, CKDS/PKDS Processing	
3 OPSTAT	Installation Options	
4 ADMINCNTL	Administrative Control Functions	
5 UTILITY	ICSF Utilities	
6 PPINIT	Pass Phrase Master Key/CKDS Initialization	
7 TKE	TKE Master and Operational Key processing	
8 KGUP	Key Generator Utility processes	
9 UDX MGMT	Management of User Defined Extensions	
Press ENTER to go to the	selected option.	
Press END to exit to the p	previous menu.	
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		COP - Coprocessor Hardware	Status		
			Crypto Domain: 3		
REGISTER STATUS		COPROCESSOR X04	COPROCESSOR X05		
Crypto Serial Number	:	93001166	93001449		
Status	:	ACTIVE	ACTIVE		
Symmetric-Keys Master Key					
New Master Key register	:	EMPTY	EMPTY		
Verification pattern	:				
Hash pattern	:				
Old Master Key register	:	EMPTY	EMPTY		
Verification pattern	:				
Hash pattern	:				
	:				
Current Master Key register	:	VALID	VALID		
Verification pattern	:	B0070E6F8F31B3C2	B0070E6F8F31B3C2		
Hash pattern	:	4181A04120413B35	4181A04120413B35		
Deepe FNTFD to refresh the bendring status display					

IBM Americas ATS, Washington Systems Center					
ICSF Panels – Display Hardware Status (cont.)					
((ICSF – Coprocessor Hardware Status				
REGISTER STATUS	COPROCESSOR X04	COPROCESSOR X05			
Asymmetric-Keys Master Key					
New Master Key register	: EMPTY	EMPTY			
Hash pattern	:				
Old Master Key register Hash pattern	: EMPTY :	ЕМРТҮ			
Current Master Key register	· : VALID	VALID			
Hash pattern	: 69723AECF26FAA80	69723AECF26FAA80			
	: CE8771914F05D03A	CE8771914F05D03A			
Press ENTER to refresh the hat Press END to exit to the prev	ardware status display. ious menu.				
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IBM Americas ATS, Wa	shington Systems Center	IBM
ICSF Main Menu		
LCP7730 In	tograted Crustographic Service Facility	
OPTION ===>		
Enter the number of the c	lesired ontion.	
1 COPROCESSOR MGM	Γ – Management of Cryptographic Processors	
2 Master Key	Master key set or change, CKDS/PKDS Processing	
3 OPSTAT	Installation Options	
4 ADMINCNTL	Administrative Control Functions	
5 UTILITY	ICSF Utilities	
6 PPINIT	Pass Phrase Master Key/CKDS Initialization	
7 TKE	TKE Master and Operational Key processing	
8 KGUP	Key Generator Utility processes	
9 UDX MGMT	Management of User Defined Extensions	
Press ENTER to go to the	selected option.	
Press END to exit to the	previous menu.	
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IBM Americ	cas ATS, Washington Systems Center	IBN
ICSF Utility	/ Menu	
	ICSF - Utilities	
OPTION ===>		
Enter the nur	nber of the desired option.	
1 ENCODE	- Encode Data	
2 DECODE	- Decode Data	
3 RANDOM	- Generate a random number	
4 CHECKSU	 Generate a checksum and verification and hash pattern 	
5 PPKEYS	- Generate master key values from a pass phrase	
Press ENTER	to go to the selected option.	
Press END to	o exit to the previous menu.	
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	IBM Americas ATS, Washington Systems Center		M
10	CSF Panels – Random Number (Generator	
	ICSF – Random Number Generator		
	COMMAND ===>		
	Enter data below:		
	Parity Option ===> RANDOM	ODD, EVEN, RANDOM	
	Random Number1 : 7AD08F3EC17940B3	Random Number 1	
	Random Number2 : 76EFE59438982A08	Random Number 2	
	Random Number3 : 26041F0DFBF19D83	Random Number 3	
	Press ENTER to process.		
	Press END to exit to the previous menu.		
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ICSF Panels – Checksum Calculation						
ICSF	ICSF – Checksum and Verification and Hash Pattern					
COMMAND ==	==>					
Enter data bel	low:					
Key Type =	===> MASTER	(Selection panel displayed if blank)				
Key Value =	===> 7AD08F3EC17490B3	Input key value 0 - 7				
=	===> 76EFE59438982A08	Input key value 8 - 15				
-	===> 0000000000000000	Input key value 16 – 23 (PKA Keys on	ly)			
Checksum	: 2D	Check digit for key value				
Key Part VP	: 8809D948E06CED41	Verification Pattern				
Key Part HP	: 5ACDE16BE799E722	Hash Pattern				
	: 95C92A87A6612955					
Press ENTER	to process.					
Press END to	o exit to the previous menu.		J			
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ICSF Main Menu		
HCR7730 Int	egrated Cryptographic Service Facility	
OPTION ===>		
Enter the number of the d	esired option.	
1 COPROCESSOR MGMT	 Management of Cryptographic Processors 	
2 Master Key	Master key set or change, CKDS/PKDS Processing	
3 OPSTAT	Installation Options	
4 ADMINCNTL	Administrative Control Functions	
5 UTILITY	ICSF Utilities	
6 PPINIT	Pass Phrase Master Key/CKDS Initialization	
7 TKE	TKE Master and Operational Key processing	
8 KGUP	Key Generator Utility processes	
9 UDX MGMT	Management of User Defined Extensions	
Press ENTER to go to the	selected option.	
Press END to exit to the p	revious menu.	
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ICSF Coproces	sor Management S	Screen	
IC	SF Coprocessor Manager	nent	
COMMAND ===>			
Select the coproces	sors to be processed and	press ENTER.	
Action characters an details.	e: A, D, E, K, R and S See	e the help panel for	
COPROCESSOR	SERIAL NUMBER	STATUS	
. A0		ACTIVE	
. A1		ACTIVE	
. A2		ACTIVE	
. A3		ACTIVE	
e X04	93001166	ACTIVE	
e X05	93001449	ACTIVE	

	IBM America	as ATS, Wasl	nington Systems Center				
	CSF Panel	s – 1 st	Key Part				
(ICSF – Clear Master Key Entry						
	COMMAND ===	>					
	Symm	netric-keys	new master key register	: EMPTY	,		
	Asym	metric-keys	s new master key register	: EMPTY	,		
	Specify information	ation below					
	Кеу Туре	===>	(SYM-MK, AS	YM-MK)			
	Part	===>	(RESET, FIRS	T, MIDDLE, FI	NAL)		
	Checksum	===>	00				
	Key Value	===>	000000000000000000000000000000000000000				
		===>	000000000000000000000000000000000000000				
		===>	000000000000000000000000000000000000000	(ASYM-N	IK only)		
	Press ENTER to	o process.					
	Press END to	exit to the p	previous menu.				
F	Page 21 z/	OS Cryptographic	Key Entry © 200	7 IBM Corporation	ON DEMAND BUSINESS		

IBM Americas ATS, Washington Systems Center COSF Panels – 1 st Key Part (Before) ICSF – Clear Master Key Entry COMMAND ===> Symmetric-keys new master key register : EMPTY Asymmetric-keys new master key register : EMPTY Specify information below Key Type ===> SYM-MK (SYM-MK, ASYM-MK) Part ===> FIRST (RESET, FIRST, MIDDLE, FINAL) Checksum ===> 2D Key Value ===> 76EFE59438982A08 ===> 0000000000000 (ASYM-MK only) Press ENTER to process. Press END to exit to the previous menu.				
ICSF Panel	s – 1 st	Key Part (Befor	e)	
ICSF	Clear Mas	ter Key Entry		
COMMAND ===	>			
Symm	etric-keys	new master key register	: EMPTY	
Asym	metric-keys	s new master key register	: EMPTY	
Specify informa	tion below			
Кеу Туре	===>	SYM-MK (SYM-MK, AS)	(М-МК)	
Part	===>	FIRST (RESET, FIRS	T, MIDDLE, FINAL)	
Checksum	===>	2D		
Key Value	===>	7AD08F3EC17940B3		
	===>	76EFE59438982A08		
	===>	000000000000000000000000000000000000000	(ASYM-MK only)	
Press ENTER to	process.			
Press END to e	exit to the p	previous menu.		
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IBM Americas	IBM Americas ATS, Washington Systems Center						
ICSF Panels – 1 st Key Part (After)							
ICSF - 0	ICSF – Clear Master Key Entry						
COMMAND ===>	COMMAND ===>						
Symme	tric-keys	new mast	er key re	gister	: PART	FULL	
Asymm	etric-keys	new ma	ster key r	egister	: EMPT	Y	
Specify informati	on below						
Кеу Туре	===>	SYM-M	K (SYM-I	IK, ASY	M-MK)		
Part	===>	FIRST	(RESE	T, FIRST	, MIDDLE, FI	NAL)	
Checksum	===>	00					
Key Value	===>	000000	00000000	00			
	===>	000000	00000000	00			
	===>	000000	00000000	00	(ASYM-N	/K only)	
Entered key part	VP: 880	9D948E0	6CED41				
	HP: 5A	CDE16BE	799E722	95C92A	A87A6612955	5	
		(Record	and sec	ure thes	e patterns)		
Press ENTER to	process.						
Press END to ex	tit to the p	revious r	nenu.				J
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IBM Americas ATS, V	ashington Systems Center		IBM			
ICSF Panels – 2	end Key Part (Befo	re)				
ICSF – Clear Master Key Entry						
COMMAND ===>						
Symmetric-keys new master key register : PART FULL						
Asymmetric-	Asymmetric-keys new master key register : EMPTY					
Specify information be	ow					
Key Type ===	SYM-MK (SYM-MK, AS)	YM-MK)				
Part ===	MIDDLE (RESET, FIRS	T, MIDDLE, FINAL)				
Checksum ===:	, FF					
Key Value ===:	CE548C08EAA42A89					
===:	• 0EBF346B9408258A					
===:	000000000000000000000000000000000000000	(ASYM-MK only)				
Press ENTER to proces	S					
Press END to exit to the	ie previous menu.		J			
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IBM Americas	ATS, Wash	ington Systems Center				
CSF Panels	- 2 nd	Key Part (After))			
ICSF – Clear Master Key Entry						
COMMAND ===>						
Symme	ric-keys ı	new master key register	: PART	FULL		
Asymm	etric-keys	new master key register	: EMPT)	1		
Specify informati	on below					
Кеу Туре	===>	SYM-MK (SYM-MK, ASY	′M-MK)			
Part	===>	MIDDLE (RESET, FIRST	Γ, MIDDLE, FI	NAL)		
Checksum	===>	00				
Key Value	===>	0000000000000000				
	===>	0000000000000000				
	===>	0000000000000000	(ASYM-N	IK only)		
Entered key part	VP: 8E8	86E485545AA669				
	HP: 10	29966EBEC2BD11 AD540	801821039D0	I		
		(Record and secure the	se patterns)			
Press ENTER to p	process.					
Press END to ex	it to the p	revious menu.				
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	IBM America	as ATS, Wasl	nington Systems Center		IBM
I	CSF Panel	s – 3 rd	Key Part (Befor	e)	
	ICSF	Clear Mas	ter Key Entry		
	COMMAND ===	>			
	Symm	etric-keys	new master key register	: PART FULL	
	Asymi	netric-keys	s new master key register	: EMPTY	
	Specify informa	tion below			
	Кеу Туре	===>	SYM-MK (SYM-MK, AS)	(M-MK)	
	Part	===>	FINAL (RESET, FIRS	T, MIDDLE, FINAL)	
	Checksum	===>	64		
	Key Value	===>	BF57AD3D94CEAD62		
		===>	C73491832638F7EF		
		===>	000000000000000000000000000000000000000	(ASYM-MK only)	
		process.			
	FIESS END TO E	exit to the	nevious menu.		
	Page 26 z/0	DS Cryptographic	Key Entry© 2007	7 IBM Corporation ON DEMAND	BUSINESS"

IBM Amer	ricas ATS, Washington Systems Center						
CSF Pane	els – 3rd Key Part (After)						
ICSF – Clear Master Key Entry							
COMMAND ===> Symmetric-kevs new master key register : FULL							
Asvm	nmetric-keys new master key register : FOLL						
Specify informat	tion below						
Кеу Туре	===> SYM-MK (SYM-MK, ASYM-MK)						
Part	===> FINAL (RESET, FIRST, MIDDLE, FINAL)						
Checksum	===> 00						
Key Value	===> 0000000000000						
	===> 0000000000000 (A DYM M//	-1-3					
Entered key part	===> 0000000000000000000000000000000000	niy) 8321 EEQQEE4					
Master Key	VP: B0070E6F8F31B3C2 HP: 4181A04120413B35 D389D	E6FC7DF75A7					
·····,	(Record and secure these patterns)						
Press ENTER to	process.						
Press END to e	exit to the previous menu.						
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IBM Americas ATS	, Washington Systems Center		IBN				
ICSF Coproces	sor Management S	Screen					
ICSF Coprocessor Management							
Soloct the conrece	ssors to be processed and						
Select the coproce	ssors to be processed and	press ENTER.					
details.	are: A, D, E, K, R and S See	e the help panel for					
COPROCESSOR	SERIAL NUMBER	STATUS					
. A0		ACTIVE					
. A1		ACTIVE					
. A2		ACTIVE					
. A3		ACTIVE					
S X04	93001166	ACTIVE					
S X05	93001449	ACTIVE					
			AND RUSINESS				

COMMAND ===> Crypto Domain: 3					
REGISTER STATUS		COPROCESSOR X04	COPROCESSOR X05		
Crypto Serial Number		93001166	93001449		
Status		ACTIVE	ACTIVE		
Symmetric-Keys Master Key					
New Master Key register	:	FULL	FULL		
Verification pattern		3FFEAC6F32912B2F	3FFEAC6F32912B2F		
Hash pattern	:	1FC752887DA6ED24	1FC752887DA6ED24		
Old Master Key register	:	EMPTY	EMPTY		
Verification pattern	:				
Hash pattern	:				
	:				
Current Master Key register	:	VALID	VALID		
Verification pattern	:	B0070E6F8F31B3C2	B0070E6F8F31B3C2		
Hash pattern	:	4181A04120413B35	4181A04120413B35		
Press ENTER to refresh the hardware status display.					

IBM Americas ATS, Was	shington Systems Center	IBM
ICSE Main Menu		
HCR7730 Inf	egrated Cryptographic Service Facility	
OPTION ===>		
Enter the number of the d	esired option.	
1 COPROCESSOR MGMT	Management of Cryptographic Processors	
2 Master Key	Master key set or change, CKDS/PKDS Processing	
3 OPSTAT	Installation Options	
4 ADMINCNTL	Administrative Control Functions	
5 UTILITY	ICSF Utilities	
6 PPINIT	Pass Phrase Master Key/CKDS Initialization	
7 TKE	TKE Master and Operational Key processing	
8 KGUP	Key Generator Utility processes	
9 UDX MGMT	Management of User Defined Extensions	
Press ENTER to go to the	selected option.	
Press END to exit to the	previous menu.	
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IBM Ar	nericas ATS, Washington Systems Ce	nter	
ICSF Pa	nels – CKDS/PKDS	Access	
COMMAND =	F – Administrative Control Function	s Row 1 to 4	
Active CKD Active PKD	S: hlq.YOUR.CKDS S: hlq.YOUR.PKDS		
To change f (E – Enable	he status of a control, enter the app , D – Disable) and press Enter.	ropriate character	
FUNCTION	۱	STATUS	
d Dynamic (CKDS Access	ENABLED	
_ PKA Calla	ble Services	ENABLED	
_ PKDS Rea	d Access	ENABLED	
_ PKDS Wri	te, Create, and Delete Access	ENABLED	
Press ENTER Press END	R to process. to exit to the previous menu.		
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ICSF Main Menu		
HCR7730 Int	egrated Cryptographic Service Facility	
OPTION ===>		
Enter the number of the d	esired option.	
1 COPROCESSOR MGMT	 Management of Cryptographic Processors 	
2 Master Key	Master key set or change, CKDS/PKDS Processing	
3 OPSTAT	Installation Options	
4 ADMINCNTL	Administrative Control Functions	
5 UTILITY	ICSF Utilities	
6 PPINIT	Pass Phrase Master Key/CKDS Initialization	
7 TKE	TKE Master and Operational Key processing	
8 KGUP	Key Generator Utility processes	
9 UDX MGMT	Management of User Defined Extensions	
Press ENTER to go to the	selected option.	
Press END to exit to the	previous menu.	J
		ICINECO"

IBM Americas ATS, Wa	shington Systems Center	INK					
ICSF Master Key	ICSF Master Key Management						
OPTION ===>							
Enter the number of the o	desired option.						
1 INIT/REFRESH CKDS	 Initialize a Cryptographic Key Data Set or activate an updated Cryptographic Key Data Set 						
2 SET MK	- Set a DES/symmetric-keys master key						
3 REENCIPHER CKDS	 Reencipher the CKDS prior to changing the DES/symmetric-keys master key 						
4 CHANGE MK	 Change the DES/symmetric-keys master key and activate the reenciphered CKDS 						
5 INITIALIZE PKDS	 Initialize or update a PKDS Cryptographic Key Data Set header record 						
6 REENCIPHER PKDS	- Reencipher the PKA Cryptographic Key Data Set						
7 ACTIVATE PKDS	- Activate the PKDS after it has been enciphered						
8 REFRESH CACHE	- Refresh the PKDS cache if enabled						
Press ENTER to go to the	selected option.						
Press END to exit to the	previous menu.						
	ON DEMAND D	UPINICOOT					
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ICSF Master Key Management				
(IC	ICSF – Master Key Management			
OPTION ===>				
Enter the number of the o	desired option.			
1 INIT/REFRESH CKDS	 Initialize a Cryptographic Key Data Set or activate an updated Cryptographic Key Data Set 			
2 SET MK	 Set a DES/symmetric-keys master key 			
3 REENCIPHER CKDS	- Reencipher the CKDS prior to changing the DES/symmetric-keys master key			
4 CHANGE MK	- Change the DES/symmetric-keys master key and activate the reenciphered CKDS			
5 INITIALIZE PKDS	- Initialize or update a PKDS Cryptographic Key Data Set header record			
6 REENCIPHER PKDS	- Reencipher the PKA Cryptographic Key Data Set			
7 ACTIVATE PKDS	- Activate the PKDS after it has been enciphered			
8 REFRESH CACHE	- Refresh the PKDS cache if enabled			
Press ENTER to go to the	selected option.			
Press END to exit to the	Press END to exit to the previous menu.			
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IBM Americas ATS, Wa	shington Systems Center	IIK	
ICSE Master Key Management			
IC OPTION ===>	ICSF – Master Key Management		
Enter the number of the desired option.			
1 INIT/REFRESH CKDS	 Initialize a Cryptographic Key Data Set or activate an updated Cryptographic Key Data Set 		
2 SET MK	- Set a DES/symmetric-keys master key		
3 REENCIPHER CKDS	- Reencipher the CKDS prior to changing the DES/symmetric-keys master key		
4 CHANGE MK	 Change the DES/symmetric-keys master key and activate the reenciphered CKDS 		
5 INITIALIZE PKDS	 Initialize or update a PKDS Cryptographic Key Data Set header record 		
6 REENCIPHER PKDS	- Reencipher the PKA Cryptographic Key Data Set		
7 ACTIVATE PKDS	- Activate the PKDS after it has been enciphered		
8 REFRESH CACHE	- Refresh the PKDS cache if enabled		
Press ENTER to go to the	selected option.		
Press END to exit to the	previous menu.		
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ICSF Initialize a PKDS	
ICSF – Initialize PKA Cryptographic Key Data Set	
COMMAND ===>	
Enter the name of the new PKDS below.	
PKDS ===>	
Press ENTER to initialize the PKDS.	
Press END to exit to the previous menu.	
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IBM Americas ATS, Washington Systems	Center		
ICSF Panels – CKDS/PKDS Access			
ICSF – Administrative Control Functions Row 1 to 4 COMMAND ===>			
Active CKDS: hlq.YOUR.CKDS Active PKDS: hlq.YOUR.PKDS			
To change the status of a control, enter the appropriate character (E – Enable, D – Disable) and press Enter.			
FUNCTION	STATUS		
_ Dynamic CKDS Access	ENABLED		
d PKA Callable Services	ENABLED		
d PKDS Read Access	ENABLED		
d PKDS Write, Create, and Delete Access	ENABLED		
Press ENTER to process. Press END to exit to the previous menu.			
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ICSF Reencipher a PKDS	
ICSF – Reencipher PKDS	
COMMAND ===>	
To reencipher all PKDS entries from encryption under the old signature/asymmetric master key to encryption under the current master key enter the PKDS names below.	
Input PKDS ===>	
Output PKDS ===>	
Press ENTER to reencipher the PKDS.	
Press END to exit to the previous menu.	
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ICSF Activate a PKDS	
ICSF – Activate PKA Cryptographic Key Data Set	
COMMAND ===>	
Enter the name of the new PKDS below	
Litter the name of the new FRDS below.	
New PKDS ===>	
Press ENTER to activate the PKDS.	
Press END to exit to the previous menu.	
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IBM Americas ATS, Wa	shington Systems Center	IBM	
ICSF Master Key Management			
ICSF – Master Key Management			
OPTION ===>			
Enter the number of the o	desired option.		
1 INIT/REFRESH CKDS	 Initialize a Cryptographic Key Data Set or activate an updated Cryptographic Key Data Set 		
2 SET MK	 Set a DES/symmetric-keys master key 		
3 REENCIPHER CKDS	 Reencipher the CKDS prior to changing the DES/symmetric-keys master key 		
4 CHANGE MK	- Change the DES/symmetric-keys master key and activate the reenciphered CKDS		
5 INITIALIZE PKDS	 Initialize or update a PKDS Cryptographic Key Data Set header record 		
6 REENCIPHER PKDS	- Reencipher the PKA Cryptographic Key Data Set		
7 ACTIVATE PKDS	- Activate the PKDS after it has been enciphered		
8 REFRESH CACHE	- Refresh the PKDS cache if enabled		
Press ENTER to go to the	selected option.		
Press END to exit to the	previous menu.		
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