When the push block has been applied, KMU generates the PUSHBLOCKED event.

7.8.3.3 Registers

Instances

Instance	Domain	Base address	TrustZone			Split access	Description
			Map	Att	DMA		
KMU	GLOBAL	0x50045000	HF	S	NSA	No	Key management unit

Configuration

Instance	Domain	Configuration
KMU	GLOBAL	Number of keyslots is 250
		Number of bits per keyslot is 128

Register overview

Register	Offset	TZ	Description
TASKS_PROVISION	0x0000		Provision key slot
TASKS_PUSH	0x0004		Push key slot
TASKS_REVOKE	0x0008		Revoke key slot
TASKS_READMETADATA	0x000C		Read key slot metadata into METADATA register
TASKS_PUSHBLOCK	0x0010		Block only the PUSH operation of a key slot, preventing the key slot from being PUSHED until next reset. The task is kept for backwards compatibility.
EVENTS_PROVISIONED	0x100		Key slot successfully provisioned
EVENTS_PUSHED	0x104		Key slot successfully pushed
EVENTS_REVOKED	0x108		Key slot has been revoked and can no longer be used
EVENTS_ERROR	0x10C		Error generated during PROVISION, PUSH, READMETADATA or REVOKE operations. Triggering the PROVISION, PUSH and REVOKE tasks on a BLOCKED keyslot will also generate this event.
EVENTS_METADATAREAD	0x110		Key slot metadata has been read into METADATA register
EVENTS_PUSHBLOCKED	0x114		The PUSHBLOCK operation was successful. The event is kept for backwards compatibility.
STATUS	0x400		KMU status register
KEYSLOT	0x500		Select key slot to operate on
SRC	0x504		Source address for provisioning
METADATA	0x508		Key slot metadata as read by TASKS_READMETADATA.

7.8.3.3.1 TASKS_PROVISION

Address offset: 0x0000

Provision key slot

Bit number	31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
ID	A
Reset 0x00000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

ID	R/W	Field	Value ID	Value	Description
A	W	TASKS_PROVISION			Provision key slot
			Trigger	1	Trigger task

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