		1									•								
TDX_ FEATURES	Class	Field	Description	Туре	VM	Init Value	Field	Max	Num	Elem.	Base FIELD_ID (Hex)	VMM	VMM			VMM Wr Mask Prod.	VMM Wr Mask Debug	Guest Wr Mask	MigTD Wr Mask
Enum. Bits					Applic.		Size (Bytes)	Num Fields	Elem.	Size (Bytes)		Access Prod.	Access Debug	Access	Access				
							(=)						8						
Always	TD Management	FATAL	Indicates a fatal error, e.g., #MC during TD operation.	Boolean		FALSE	1	1	1	1	0x80100000000000001	RO	RO	None	None	0	0	0	0
Always	TD Management	NUM_TDCX	Number of TDCX pages that have been added by TDH.MNG.ADDCX	32b Unsigned Integer		0	4	1	1	4	0×8010000200000002	RO	RO	None	None	0	0	0	0
Always	TD	CHLDCNT	The number of 4KB child pages (including	64b Unsigned	1	0	8	1	1	8	0x8010000300000004	RO	RO	None	None	0	0	0	0
	Management		opaque control structure pages) associated with this TDR	Integer															
	TD Management	LIFECYCLE_STATE	The life cycle state of this TD. LIFECYCLE_STATE values below are provided for debug only; they are subject to change in future TDX module versions: TD_HKID_ASSIGNED = 0x0 TD_KEYS_CONFIGURED = 0x1 TD_BLOCKED = 0x2 TD_TEARDOWN = 0x3	LIFECYCLE_STA TE		TD_HKID_ASSI GNED	4	1	1	4	9x8010000200000005	RO	RO	None	None	0	0	0	0
Always	TD	TDCX_PA	Physical addresses of the TDCX pages	Array of		N/A	8	16	1	8	0x8010000300000010	RO	RO	None	None	0	0	0	0
	Management			Physical Address															
0	TD Management	TD_UUID	Universally Unique Identifier of the TD	256-bit blob		Random	32	1	4	8	0x8010000300000020	RO	RO	RO	RO	0	0	0	0
Always	Key Management	HKID	Private HKID	16b Unsigned Integer		From TDH.MNG.CRE ATE input	2	1	1	2	0x81100001000000001	RO	RO	None	None	0	0	0	0
	Key Management	PKG_CONFIG_BITMAP	Bitmap that indicates on which package TDH.MMG.KEY.CONFIG was executed successfully using this private key entry	Bitmap		0	8	1	1	8	0x8110000300000002	RO	RO	None	None	0	0	0	0
1	TD Preserving	HANDOFF_VERSION	The handoff version to which this TD is committed	16b Unsigned		MODULE_HV	2	1	1	2	0x8210000100000000	RO	RO	None	None	0	0	0	0
1	TD Preserving	SEAMDB_INDEX	The index of the SEAMDB entry that holds the TDX module's TCB at TD creation time.	64b Unsigned Integer		From SEAMDB_GET RFF	8	1	1	8	0×8210000300000001	RO	RO	None	None	0	0	0	0
6	TDX_CONNECT _TDR	RND_HPA_OFFSET_6B	Generated by TDH.MNG.CREATE and used by some TDX-IO functions that return a guest handle to an HPA and to convert the handle input of TDX-IO TDCALLs back to HPA. Note: The 2 high bytes of this value must be 0.	64-bit unsigned integer		Random	8	1	1	8	0x8310000300000000	RO	RO	None	None	Ø	0	Θ	0
6	TDX_CONNECT _TDR	TDI_REF_CNT	Number of device interfaces attached to the TD (i.e. DEVIFCS owned by the TD). This TDR page can be reclaimed only if this counter is 0	64-bit unsigned integer		0	8	1	1			RO	RO	None	None	0	0	0	0
	TD Management	NUM_VCPUS	The number of VCPU that have been successfully initialized (by TDH.VP.INIT) or imported (by TDH.IMPORT.STATE.VP)	32b Unsigned Integer		0	4	1	1	4	0x9010000200000001	RO	RO	RO	None	0	0	0	0
Always	TD Management	NUM_ASSOC_VCPUS	The number of VCPUS associated with LPs - i.e., the LPs might hold TLB translations and/or cached TD VMCS	32b Unsigned Integer		0	4	1	1	4	0x90100002000000002	RO	RO	None	None	0	0	0	0
Always	TD Management	OP_STATE	The operation state (sub-state of life cycle TD_KEYS_CONFIGURED state) of this TD. OP_STATE values below are provided for debug only; they are subject to change in future TDX module releases: UNINITIALIZED = 0 INITIALIZED = 1 RUNNABLE = 2 LIVE_EXPORT = 3 PAUSED_EXPORT = 4 POST_EXPORT = 5 MEMORY_IMPORT = 6 STATE_IMPORT = 7 POST_IMPORT = 8 LIVE_IMPORT = 9 FAILED_IMPORT = 10 START_IMPORT = 10 START_IMPORT = 11	OP_STATE		UNINITIALIZE D	4	1	1	4	0x9010000200000004	RO	RO	None	None	Ø	P	В	P
Always	TD	NUM_L2_VMS	Number of L2 VMs	16b Unsigned							0x9010000100000005	RO	RO	RO	RO				

Always	Execution Controls	ATTRIBUTES	TD attributes	ATTRIBUTES		From TDH.MNG.INI T input	8	1	1	8	0×1110000300000000	RO	RO	RO	RO	0	0	0	0
Always	Execution Controls	XFAM	Extended Features Available Mask: indicates the extended user and system features which are available for the TD. Copied to each TDVPS on TDH.VP.INIT.	XCR0		From TDH.MNG.INI T input	8	1	1	8	0x1110000300000001	RO	RO	RO	RO	0	0	0	0
			copied to each loves on lon.ve.inii.																
Always	Execution Controls	MAX_VCPUS	Maximum number of VCPUs	32b Unsigned Integer		From TDH.MNG.INI T input	4	1	1	4	0×1110000200000002	RO	RO	RO	None	0	0	0	0
Always	Execution Controls	GPAW	This bit has the same meaning as the VMCS GPAW execution control: 0: GPA.SHARED bit is GPA[47] 1: GPA.SHARED bit is GPA[51]	Boolean		From TDH.MNG.INI T input	1	1	1	1	0x11100000000000003	RO	RO	RO	RO	0	0	0	0
Always	Execution Controls	ЕРТР	TD-scope Secure EPT pointer: format is the same as the VMCS EPTP execution control; copied to each TD VMCS EPTP on TDH.VP.INIT	ЕРТР		From TDH.MNG.INI T input	8	1	1			RO	RO	None	RO	0	0	0	0
Always	Execution Controls	TSC_OFFSET	TD-scope TSC offset execution control: copied to each TD VMCS TSC-offset execution control on TDH.VP.INIT	64b unsigned Integer		From TSC_ FREQUENCY and rdtsc	8	1	1	8	0×111000030000000A	RO	RO	None	None	0	0	0	0
Always	Execution Controls	TSC_MULTIPLIER	TD-scope TSC multiplier execution control: copied to each TD VMCS TSC-multiplier execution control on TDH.VP.INIT	64b Unsigned Integer		From TSC_ FREQUENCY	8	1	1	8	0x111000030000000B	RO	RO	None	None	0	0	0	0
Always	Execution Controls	TSC_FREQUENCY	Virtual TSC frequency - in units of 25MHz	16b Unsigned Integer		From TDH.MNG.INI T input	2	1	1	2	0×1110000100000000C	RO	RO	RO	None	0	0	0	0
Always	Execution Controls	NUM_CPUID_VALUES	Number of valid fields in CPUID_VALUES	16b Unsigned Integer			2	1	1	2	0x911000010000000E	RO	RO	None	None	0	0	0	0
Always	Execution Controls	XBUFF_SIZE		Unsigned Integer		From CPUID and XFAM	4	1	1	4	0x911000020000000F	RO	RO	None	None	0	0	0	0
Always	Execution Controls	NOTIFY_ENABLES	Enable guest notification of events: Bit 0: Notify when Zero Step attack is suspected Bits 63:1: Reserved, must be 0	Bitmap		0	8	1	1	8	0x9110000300000010	None	RW	RW	None	0	0x000000000000000001	0x000000000000000001	0
Always	Execution Controls	HP_LOCK_TIMEOUT	Host priority timeout value, in usec (internally, stored in TSC tick units)	Unsigned 32b integer		1 sec	8	1	1	8	0x9110000300000011	RW	RW	None	None	-1	-1	0	0
7	Execution Controls	VM_CTLS	An array of 4 per-VM controls that may be modified by the host VMM during guest TD run time See the [ABI Spec] for details.	Array of 64-bit bitmaps	L1_AND _L2	0	8	4	1	8	0x9110000300000012	RW	RW	None	None	0x000000000000000000000000000000000000	0×0000000000000000	0	0
Always	Execution Controls	CONFIG_FLAGS	Non-attested TD configuration flags	64b bitmap		From TDH.MNG.INI T input	8	1	1	8	0x9110000300000016	RO	RO	RO	RO	0	0	0	0
16	Execution Controls	TD_CTLS	A bitmap of TD controls that may be modified by the guest TD during its run time See [ABI Spec] for details	64b bitmap	L1_ONL Y		8	1	1	8	0x9110000300000017	None	RO	RW	None	0	0	0x800000000000001F	0
27	Execution Controls	VIRT_MAXPA	Virtual MAXPA A value of 0 is special; it indicates a virtual MAXPA of 52	Unsigned 8-bit integer		Calculated based CPUID(0x8000 0008).EAX[7:0] configuration	1	1	1	1	0x9110000000000018	RO	RO	None	None	0	0	0	0
20	Execution Controls	TOPOLOGY_ENUM_CONFI GURED	Indicates whether virtual topology enumeration has been successfully configured	Boolean		True, may be cleared during VCPU initializations	1	1	1	1	0x91100000000000019	RO	RO	RO	RO	0	0	0	0
30	Execution Controls	VE_REDUCTION_VALID	Indicates whether #VE reduction has been successfully configured	Boolean		True, may be cleared during VCPU initializations	1	1	1	1	0x9110000000000001A	RO	RO	RO	RO	0	0	0	0
None	Execution Controls	CPUID_VALID	Non-architectural - an array of boolean flag, indicating the validity of CPUID_VALUES. Indexed by the internal CPUID lookup table indexing.	Array of boolean		Set to 1 when setting or importing a CPUID_VALUE entry.	1	512	1	1	0x91100000000000080	None	RO	None	None	0	0	0	0

Control Cont																			
Control Cont	Always		XBUFF_OFFSETS	XSAVE buffer components offsets – calculated by TDH.MNG.INIT based on XFAM			4	32	1	4	0x9110000200000800	RO	RO	None	None	0	0	0	0
The contract State	22		RATE_LIMIT_TIMEOUT_TS C	at which long-latency guest-side interface	unsigned	based on a constant timeout in	8	1	1	8	0x9110000300000020	RO	RO	None	None	0	0	0	0
Control Cont	30		CPUID_FIXEDO_BITMAP		64-bit bitmap	From lookup	8	1	1	8	0x9110000300000021	RO	RO	None	RO	0	0	0	0
Concide Conc	None		CPUID4_NATIVE_VALUES				16	16	4	4	0x9110000200000200	None	RO	None	None	0	0	0	0
Control Cont	30		FEATURE_PARAVIRT_CTLS	feaures paravirtualization. See the [ABI	64-bit bitmap	All-0	8	1	1	8	0x9110000300000022	None	RO	RW	None	0	0	0x00000FFF	0
Concide Conc	24			event setting by the guest TD has been filtered out	unsigned integer	0	8	4	1			RO	RO	None	None	0	0	0	0
Control Cont	41		FIELD_SUPPORT_AT_INIT	initialization time (TDH.MNG.INIT and TTH.IMPORT.STATE.IMMUTABLE) or migration initalization time (TDH.*PORT.STATE.IMMUTABLE). This field is used to support backward compatibility on TD-preserving updates where the TD was created or imported by an older TDX	32-bit bitmap		4	1	1	4	0x9110000200000028	RO	RO	None	None	e	e	е	0
Controls NT	41		_	been accessible by the guest TD and is currently blocked, in multiples of 4KB	unsigned	0	8	1	1				RO	None	None	0	0	0	0
Controls	41			PENDING and could have been accepted by the guest TD and is currently blocked, in multiples of 4KB	unsigned	0	8	1	1	8	0x911000030000002A	RO	RO	None	None	0	0	0	0
Secution Not CRUSNIN	41		MEM_COUNT	Number of TD private memory pages, in multiples of 4KB	unsigned	0	8	1	1	8	0x911000030000002B	RO	RO	None	None	0	0	0	0
Controls Servet as the lowest bar for its security. 88 Execution Controls NIT_TE_MODEL Nodel information corresponding to the model that INIT_TEE_MODEL STRUCT FIG.SW was captured on. See TEE_MODEL_STRUCT for more info. 18 Epoch TID_EPOCH The TD epoch counter: incremented by the host why wising the TDM.HMS.TIME (function host why wising the TDM.HMS.TIME (function function) as specific TD_EPOCH and are currently executing in TDM.Non-root mode. Always TIB Epoch Tracking Seed to the third that has a pass of the third that has a pass	48		INIT_CPUSVN	TD. Serves as the lowest bar for its	Array of 8-bit unsigned	0	16	1	2	8	0x1110000300000060	RO	RO	RO	RO	0	0	0	0
Controls	48		INIT_TEE_TCB_SVN	this TD. Serves as the lowest bar for its	TEE_TCB_SVN	0	16	1	2	8	0x1110000300000062	RO	RO	RO	RO	0	0	0	0
Tracking	48		INIT_TEE_MODEL	model that INIT_TEE_TCB_SVN was captured		0	12	1	3	4	0x1110000200000064	RO	RO	RO	RO	0	0	0	0
Tracking which may have TLB entries created during a specific TD_EPOCH and are currently executing in TDX non-root mode. Always Measurement MRTD Measurement of the initial contents of the SHA384_HASH O 48 1 6 8 0x131000300000000 RO	Always		TD_EPOCH		64b Integer	1	8	1	1	8	0x9210000300000000	RO	RO	None	None	0	0	0	0
Always Measurement MRCONFIGID Software-defined ID for non-owner-defined configuration of the guest TD - e.g., runtime or OS configuration Always Measurement MROWNER Software-defined ID for the guest TD's SHA384_HASH From TDH.MNG.INI Tinput Always Measurement MROWNER Software-defined ID for the guest TD's SHA384_HASH From 48 1 6 8 8x131000300000018 RO RO RO None 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Always		REFCOUNT	which may have TLB entries created during a specific TD_EPOCH and are currently		0	2	2	1	2	0x92100001000000001	RO	RO	None	None	0	0	0	0
Always Measurement MRCONFIGID Software-defined ID for non-owner-defined configuration of the guest TD - e.g., runtime or OS configuration Always Measurement MROWNER Software-defined ID for the guest TD's SHA384_HASH From TDH.MNG.INI Tinput Always Measurement MROWNER Software-defined ID for the guest TD's SHA384_HASH From TDH.MNG.INI Tinput Always Measurement MROWNER Software-defined ID for owner-defined configuration of the guest TD - e.g., specific to the workload rather than the run-time or OS Always Measurement RTMR Array of NUM_RTMRS run-time extendable Array of 0 48 4 6 8 0x131000300000040 None RO RO None 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Always	Measurement	MRTD		SHA384_HASH	0	48	1	6	8	0x1310000300000000	RO	RO	RO	None	0	0	0	0
Measurement MROWNER Software-defined ID for the guest TD's SHA384_HASH From TDH.MNG.INI Tinput Tinpu	Always	Measurement		configuration of the guest TD - e.g., run- time or OS configuration	_	TDH.MNG.INI	48	1	6			RO	RO	RO	None	0	0	0	0
Measurement MROWNERCONFIG Software-defined ID for owner-defined configuration of the guest TD - e.g., specific to the workload rather than the run-time or OS Shase-defined ID for owner-defined configuration of the guest TD - e.g., specific to the workload rather than the run-time or OS None of Shase-defined ID for owner-defined ID for owner-defined ID for owner-defined Shase-HASH From 48 1 6 8 0x1310000300000020 RO RO None 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Always	Measurement	MROWNER	Software-defined ID for the guest TD's	SHA384_HASH	From TDH.MNG.INI	48	1	6			RO	RO	RO	None	0	0	0	0
	Always			configuration of the guest TD - e.g., specific to the workload rather than the run-time or OS	SHA384_HASH	From TDH.MNG.INI	48	1	6			RO	RO	RO		0	0	0	0
	Always	Measurement	RTMR			 0	48	4	6	8	0x1310000300000040	None	RO	RO	None	0	0	0	0

22	Measurement	MRCONFIGSVN	Software defined SVN for non-owner-defined configuration or the guest TD. E.g., runtime or OS configurations.	16-bit unsigned integer	0	2	1	1	2	0x1310000100000080	None	RO	RO	None	0	0	0	0
22	Measurement	MROWNERCONFIGSVN	Software defined SVN for owner-defined configuration or the guest TD. E.g., specific to workload rather than the runtime or OS.	16-bit unsigned integer	0	2	1	1	2	0x1310000100000081	None	RO	RO	None	0	0	0	0
22	Measurement	MRSIGROOT		SHA384_HASH	0	48	1	6	8	0x1310000300000082	None	RO	RO	None	0	0	0	0
22	Measurement	MRSIGNER	Hashes of SIGSTRUCT signing key	SHA384_HASH	0	48	1	6	8	0x1310000300000088	None	RO	RO	None	0	0	0	0
22	Measurement	ISVSVN	ISV-assigned SVN of the TD	16-bit unsigned integer	0	2	1	1	2	0x131000010000008E	None	RO	RO	None	0	0	0	0
22			Product ID of the TD	128-bit	0	16	1	2				RO	RO	None	0	0	0	0
None	Values	VIRTUAL_IA32_VMX_BASI C		64-bit integer		8	1	1		0x9610000300000480	None	RO	None	None	0	0	0	0
None	Virt. MSR Values	VIRTUAL_IA32_VMX_MISC	Virtual value of MSR	64-bit integer		8	1	1	8	0x9610000300000485	None	RO	None	None	0	0	0	0
None		VIRTUAL_IA32_VMX_CR0_ FIXED0	Virtual value of MSR	64-bit integer		8	1	1	8	0x9610000300000486	None	RO	None	None	0	0	0	0
None		VIRTUAL_IA32_VMX_CR0_ FIXED1	Virtual value of MSR	64-bit integer		8	1	1	8	0x9610000300000487	None	RO	None	None	0	0	0	0
None		VIRTUAL_IA32_VMX_CR4_ FIXED0	Virtual value of MSR	64-bit integer		8	1	1	8	0x9610000300000488	None	RO	None	None	0	0	0	0
None	Virt. MSR	VIRTUAL_IA32_VMX_CR4_ FIXED1	Virtual value of MSR	64-bit integer		8	1	1	8	0x9610000300000489	None	RO	None	None	0	0	0	0
None	Virt. MSR	VIRTUAL_IA32_VMX_PRO CBASED_CTLS2	Virtual value of MSR	64-bit integer		8	1	1	8	0x961000030000048B	None	RO	None	None	0	0	0	0
None	Virt. MSR	VIRTUAL_IA32_VMX_EPT_ VPID_CAP	Virtual value of MSR	64-bit integer		8	1	1	8	0x961000030000048C	None	RO	None	None	0	0	0	0
None		VIRTUAL_IA32_VMX_TRUE PINBASED CTLS	Virtual value of MSR	64-bit integer		8	1	1	8	0x961000030000048D	None	RO	None	None	0	0	0	0
None		VIRTUAL_IA32_VMX_TRUE PROCBASED_CTLS	Virtual value of MSR	64-bit integer		8	1	1	8	0x961000030000048E	None	RO	None	None	0	0	0	0
None		VIRTUAL_IA32_VMX_TRUE EXIT_CTLS	Virtual value of MSR	64-bit integer		8	1	1	8	0x961000030000048F	None	RO	None	None	0	0	0	0
None		VIRTUAL_IA32_VMX_TRUE ENTRY CTLS	Virtual value of MSR	64-bit integer		8	1	1	8	0x9610000300000490	None	RO	None	None	0	0	0	0
None		VIRTUAL_IA32_VMX_VMF UNC	Virtual value of MSR	64-bit integer		8	1	1	8	0x9610000300000491	None	RO	None	None	0	0	0	0
None	Virt. MSR Values	VIRTUAL_IA32_VMX_PRO CBASED_CTLS3	Virtual value of MSR	64-bit integer		8	1	1	8	0x9610000300000492	None	RO	None	None	0	0	0	0
None	Values	VIRTUAL_IA32_VMX_EXIT _CTLS2		64-bit integer		8	1	1	8	0x9610000300000493	None	RO	None	None	0	0	0	0
None		VIRTUAL_IA32_ARCH_CAP ABILITIES	Virtual value of MSR	64-bit integer		8	1	1	8	0x961000030000010A	None	RO	None	None	0	0	0	0
Always			leaves: Element 0[31:0]: EAX Element 0[63:32]: EBX Element 1[31:0]: ECX Element 1[31:0]: ECX Element 1[63:32]: EDX Field code is composed as follows: Bits 31:17 Reserved, must be 0 Bit 16 Leaf number bit 31 Bits 15:9 Leaf number bit 6:0 Bit 8 Sub-leaf not applicable flag Bits 7:1 Sub-leaf number bits 6:0 Bit 0 Element index within field	CPUID_RET	From TDH.MNG.INI T input	16	512	2			RO	RO	None	RO	6	9	Ð	6
0, 13			Set when a new MIG_DEC_KEY is written, cleared when the MIG_DEC_KEY is copied to MIG_DEC_WORKING_KEY	Boolean	FALSE	1	1	1				RO	None	None	0	0	0	0
0, 13		EXPORT_COUNT	Counts the number of times this TD has been exported, included aborted export sessions. Incremented at the beginning of each export session (TDH.EPORT.STATE.IMMUTABLE).	32b Unsigned Integer	0	4	1	1				RO	None	RO	0	0	0	0
0, 13	Migration	IMPORT_COUNT	Counts the number of times this TD has been imported. Incremented by TDH.IMPORT.COMMIT.	32b Unsigned Integer	0	4	1	1	4	0x9810000200000003	RO	RO	None	RO	0	0	0	0

0, 13	Migration	MIG_EPOCH	Migration epoch Starts from 0 on migration session start, incremented by 1 on each epoch token. A value of 0xFFFFFFFF indicates out-of- order phase.	32b Unsigned Integer	0	4	1	1		4 0x9810000200000004	RO	RO	None	None	0	0	0	0
0, 13	Migration	BW_EPOCH	For Write-Blocking Export, holds the value of TD_EPOCH at last time TDH.EXPORT.BLOCKW blocked a page for writing. For Non-Blocking Export, holds the value of TD_EPOCH at the time of TDH.EXPORT.STATE.IMMUTABLE.		0	8	1	. 1	8	3 0x9810000300000005	RO	RO	None	None	ø	Ð	Ð	0
0, 13	Migration	TOTAL_MB_COUNT	The total number of migration bundles exported or imported during the current migration sessions	Unsigned Integer	0	8	1	1	8	0x98100003000000006	RO	RO	None	None	0	0	0	0
0	Migration	MIG_DEC_KEY	Migration decryption key, as written by the Migration TD Special write behaviour: - Acquire a shared lock on TDCS.OP_STATE to prevent concurrent migration session start. - Set MIG_DEC_KEY_SET	KEY_256	0	32	1	4	8	3 0x9810000300000010	None	RO	None	RW	0	0	0	-1
0, 13	Migration	MIG_DEC_WORKING_KEY	Migration decryption working key Copied from MIG_DEC_KEY at the beginning of a migration session and used throughout the session.	KEY_256	0	32	1	. 4		3 0x9810000300000014	None	RO	None	RO	ø	0	0	0
0	Migration	MIG_ENC_KEY	Migration encryption key This key is first generated by the TDX module on TDH.NMG.ADDCX, and is re- generated at the beginning of each migration session (TDH.EXPORT/IMPORT.STATE.IMMUTABLE) for use in a following session.	KEY_256	Randor	n 32	1	4	8	3 0x9810000300000018	None	RO	None	RO	0	0	0	0
0, 13	Migration	MIG_ENC_WORKING_KEY	Migration encryption working key Copied from MIG_ENC_KEY at the beginning of a migration session (before a new MIG_ENC_KEY is generated) and used throughout the session.		0	32	1	4		3 0x981000030000001C	None	RO	None	RO	Ø	0	0	Ð
0	Migration	MIG_VERSION	Migration protocol version, as written by the migration TD	Integer	0	2	1	1	-	0x9810000100000020	RO	RO	None	RW	0	0	0	-1
0, 13	Migration	MIG_WORKING_VERSION	Migration working protocol version, copied from MIG_VERSION at the beginning of a migration session and used throughout the session	16b Unsigned Integer	0	2	1	1	:	0x9810000100000021	RO	RO	None	RO	0	0	0	0
0, 13	Migration	DIRTY_COUNT	Counts of the number of pages that must be re-exported, because their contents have been modified since they have been exported, before a start token may be generated	64b Unsigned Integer	0	8	1	. 1			RO	RO	None	None	0	0	0	0
0, 13	Migration	MIG_COUNT	Counts the number of SEPT entries that need to be cleaned up after an aborted migration	64b Unsigned Integer	0	8	1	1	8	0x9810000300000031	RO	RO	None	None	0	0	0	0
0, 13	Migration	NUM_MIGS	Number of Migration Stream Context (MIGSC) pages that have been allocated (including the backward and forward MIGSC pages)	16b Unsigned Integer	0	2	1	1	:	0x9810000100000032	RO	RO	None	None	0	0	0	0
0, 13	Migration	NUM_MIGRATED_VCPUS	Number of VCPUs that have been migrated	32b Unsigned Integer	0	4	1	1	4	0×9810000200000034	RO	RO	None	None	0	0	0	0
0	Migration	PRE_IMPORT_UUID	The original value of TD_UUID before it was overwritten as part of the immutable state import	256-bit blob	0	32	1	4		8 0x9810000300000040	RO	RO	RO	RO	0	0	0	0
41	Migration	NUM_MEM_SCAN_RANGE S	Number of memory scan GPA ranges, configured by TDH.MEM.SCAN.CONFIG	8-bit unsigned integer	0	1	1	1	-	0×1810000000000037	RO	RO	None	None	0	0	0	0
41	Migration	NUM_MEM_SCAN_RANGE S_COMPLETED	Number of memory scan GPA ranges for which TDH.MEM.SCAN.COMP completed the scan	8-bit unsigned integer	0	1	1	1	:	0×18100000000000038	RO	RO	None	None	0	0	0	0
41	Migration	MEM_SCAN_OPERATION	Operation done by the current comprehensive memory scan. See the [ABI Spec] definition of TDH.MEM.SCAN.COMP for details.	8-bit unsigned integer	0	1	1	. 1	:	0x1810000000000039	RO	RO	None	None	0	0	0	0

41	Migration	MEM_SCAN_QUALIFIER	Operation qualifier for the current comprehensive memory scan. See the [ABI Spec] definition of TDH.MEM.SCAN.COMP for	8-bit unsigned integer	0	1	1	1	1 0×181000000000003A	RO	RO	None	None	0	0	0	0
			details.														
41	Migration	MEM_SCAN_STATE	State of the comprehensive memory scan. See the [ABI Spec] for details.	8-bit unsigned integer	0	1	1	1	1 0x181000000000003B	RO	RO	None	None	0	0	0	0
0	Service TD	SERVTD_HASH	SHA384 hash of the bound or pre-bound service TDs	SHA384_HASH	0	48	1	6	8 0x9910000300000000	RO	RO	RO	RO	0	0	0	0
0	Service TD	SERVTD_NUM	Number of bound or pre-bound service TDs	16-bit unsigned	0	2	1	1	0x9910000100000006	RO	RO	RO	RO	0	0	0	0
				integer		400		46									
0	Service TD	SERVTD_BINDINGS_TABLE	An array of service TD binding information entries The number of entries is enumerated by SERVTD_NUM.	Array of SERVTD_BINDI NG entries	0	128	16	16	8 0×9910000300000080	RO	RO	RO	None	Ø	Ø	io	ð
48	Service TD	SERVTD_BINDING_STATE	Service TD 0 binding state, see [ABI FAS]	SERVTD_BINDI NG_STATE	0	1	1	1	1 0×19100000000000200	RO	RO	RO	RO	0	0	0	0
48	Service TD	SERVTD_TYPE	Service TD 0 TYPE, see [ABI FAS]	SERVTD_TYPE	0	2	1		0×1910000100000201	RO	RO		RO	0	0	0	0
48	Service TD	SERTVD_ATTR	Service TD 0 ATTR, see [ABI FAS]	SERVTD_ATTR	0	8	1		8 0x1910000300000202	RO	RO	RO	RO	0	0	0	0
48	Service TD	SERVTD_UUID	Service TD 0 UUID, see [ABI FAS]	256-bit blob	0	32 48	1		8 0x1910000300000203	RO	RO		RO	0	0	0	0
48	Service TD	SERVTD_INFO_HASH	Service TD 0 INFO_HASH, see [ABI FAS]	SHA384_HASH	0	48	1		8 0x1910000300000207	RO	RO		RO	0	0	0	0
48	Service TD	SERVTD_INIT_ATTR	Initial Service TD 0 ATTR, see [ABI FAS]	SERVTD_ATTR	0	8	1	1	8 0x191000030000020D	RO	RO		RO	0	0	0	0
48	Service TD		Initial Service TD 0 INFO_HASH, see [ABI FAS]	SHA384_HASH	0	48	1	6	8 0x191000030000020E	RO	RO		RO	в	0	0	0
48	Service TD	SERVTD_ACCEPT_SERVTD_ EXT_HASH	Hash of SERVTD_EXT that the new Service TD 0 (i.e., rebound Service TD or MigTD on the destination platform) believes is the SERVTD_EXT for this TD.	SHA384_HASH	0	48	1	6	8 0x1910000300000214	RO	RO	RW	RW	0	0	-1	-1
48	Service TD	SERVTD_REBIND_TOKEN	Rebind session token, set by TDG.SERVTD.REBIND.APPROVE.	256-bit blob	0	32	1	4	8 0x191000030000021A	None	RO	None	None	0	0	0	0
48	Service TD	SERVTD_REBIND_ACCEPT_ TOKEN	Rebind session token held by the Service TD. This field is written by the ServiceTD executing TDG.VM.WR.	256-bit blob	0	32	1	4	8 0x191000030000021E	None	RO	RW	None	0	0	-1	0
48	Service TD	SERVTD_REBIND_ATTR	The intended SERVTD_ATTR for the Service TD about to be bound to the TD.	SERVTD_ATTR	0	8	1	1	8 0x1910000300000222	RO	RO	RW	None	0	0	-1	0
48	Service TD	SERVTD_EXT_HASH	SHA384 digest of the SERVTD_EXT.	SHA384_HASH	0	48	1	6	8 0x1910000300000223	RO	RO	RO	RO	0	0	0	0
20	X2APIC_IDS	X2APIC_IDS	Array of per-VCPU unique virtual x2APIC IDs	32-bit integer	0	4	4096	1	4 0x9C10000200000000	RO	RO	None	RO	0	0	0	0
6	TDX_CONNECT	CURR_IOTLB_CNT	Total IOTLB agents currently attached to this TD via IOMMU mapped PTE.	64-bit unsigned integer	0	8	1	1	8 0x9B10000300000000	RO	RO	None	None	0	0	0	0
6	TDX_CONNECT	PREV_IOTLB_CNT	Total IOTLB agents from previous TD_EPOCH that require IOTLB invalidation for tracking to be done.	64-bit unsigned integer	0	8	1	1	8 0x9B10000300000001	RO	RO	None	None	0	0	0	0
32	TDX_CONNECT	REQ_ACTIVE	Request is active. Set to 1 by TDG.IQ.INV.REQUEST, zero after wait descriptor process	Boolean	FALSE	1	1	1	1 0x9B100000000000002	RO	RO	None	None	0	0	0	0
32	TDX_CONNECT	REQ_NUM	Number of descriptors requested by TDG.IQ.INV.REQUEST (0 - no active requests)	8-bit unsigned integer	0	1	1	1	1 0x9B100000000000003	RO	RO	None	None	0	0	0	0
32	TDX_CONNECT	REQ_IOMMU_BM	Active TD IOMMU bitmask. 128 bits for all possible NUM_TOTAL_IOMMUs	128-bit bit mask	0	16	1	2	8 0x9B10000300000004	RO	RO	None	None	0	0	0	0
32	TDX_CONNECT	STATUS_COMPLETE_WR	Set to 1 by TDG.IQ.INV.REQUEST if the wait desciptor has been requested (in the list of descriptors)		FALSE	1	1	1	1 0x9B10000000000000	RO	RO	None	None	0	0	0	0
32	TDX_CONNECT	STATUS_COMPLETE_GPA	If the Wait Descriptor has been requested (SW_FLAG==1), keeps the StatusWrite GPA	GPA	NULL_PA (-1)	8	1	1	8 0x9B10000300000007	RO	RO	None	None	0	0	0	0
32	TDX_CONNECT	STATUS_COMPLETE_DATA	If the Wait Descriptor has been requested (SW_FLAG==1), keeps the StatusWrite DATA	StatusWrite DATA	0	4	1	1	4 0x9B100002000000008	RO	RO	None	None	0	0	0	0
6	TDX_CONNECT	IOTLB_TRACK_ARRAY	IOTLB invalidation tracker	Array of IOTLB_INV_T RACKER_T	0	8	128	1	B 0x9B10000300000200	RO	RO	None	None	0	0	0	0
32	TDX_CONNECT	IOTLB_COMMITTED	Array of NUM_TOTAL_IOMMUs, counter of descriptors in COMMITTED state per IOMMU index	Array of 8- bit unsigned	0	1	128	1	1 0×9B100000000000400	RO	RO	None	None	0	0	0	0
	<u> </u>			integers							1						

32		IOTLB_COMPLETE	descriptors in COMPLETE state per IOMMU index	Array of unsigned 8- bit	0	1	128	1			RO	RO	None	None	0	0	0	0
None	MSR Bitmaps	MSR_BITMAPS		MSR Exit Bitmaps	See MSR Handling spreadsheet	8	512	1			None	RO	None	None	0	0	0	0
None	Secure EPT Root	SEPT_ROOT	Secure EPT root page (PML5 or PML4)	Secure EPT Entry	All entries: bit 63 set, other bits clear	8	512	1	8	0x21100003000000000	None	RO	None	None	0	0	0	0
0, 13	MIGSC Links	MIGSC_LINKS	An array of links to Migration Stream Contexts Entry 0 is for the backward migration stream Entry [i + 1] is for forward migration stream i. Each entry contains the following information: Bit 51:12: MIGSC_HPA:	MIGSC_LINK	0	8	512	1	8	0x9A1000030000000	RO	RO	None	None	0	0	0	0
None	L2 Secure EPT Root [1]	L2_SEPT_ROOT_1	L2 VM's Secure EPT root page (PML5 or PML4)	Secure EPT Entry	0	8	512	1	8	0x2510000300000000	None	RO	None	None	0	0	0	0
None		L2_SEPT_ROOT_2	L2 VM's Secure EPT root page (PML5 or PML4)	Secure EPT Entry	0	8	512	1	8	0x2910000300000000	None	RO	None	None	0	0	0	0
None		L2_SEPT_ROOT_3	L2 VM's Secure EPT root page (PML5 or PML4)	Secure EPT Entry	0	8	512	1	8	0x2D10000300000000	None	RO	None	None	0	0	0	0