## Platform Trust Technology (PTT) API Vendor Specific Properties

Author: Igor Slutsker

PTT supports a set of vendor specific properties. They are used to get PTT specific information. The TPM2\_GetCapability command is used to access to the properties. The capability must be equal to the TPM\_CAP\_VENDOR\_PROPERTY (0x00000100). The property shall be equal to the to the vendor specific property value (INTEL\_PROP). The property value must be equal to one of the possible values listed in the table below.

Table 1 — Definition of (UINT32) INTEL\_PROP Constants

Property Name	Value	Return Type
INTEL_PROP_INTC_FLAGS	0x00000003	INTEL_PROPERTY
INTEL_PROP_INTC_EK_REKEY_SUPPORT	0x00000007	INTEL_PROPERTY

The returned value is represented in the format of INTEL\_PROPERTY structure.

Table 2 — Definition of INTEL\_PROPERTY Structure

Name	Туре	Description
count	UINT32	Number of values returned for the property. A value of zero is allowed.
property	INTEL_PROP_VALUE	An array of values

The INTEL\_PROP\_VALUE is defined as a UINT32 type.

## INTEL PROP INTC FLAGS

The request of the INTEL\_PROP\_INTC\_FLAGS property returns information about special behavior of PTT. The returned value is a set of flags (TPM\_CAP\_INTC\_FLAGS). If the flag is set, the special behavior is enabled.

The list of the flags is represented in the table below.

Table 3 — Definition of (UINT32) TPM\_CAP\_INTC\_FLAGS Bits

Bit	Name	Description
0	TPM_CAP_INTC_FLAGS_NO_AR	SET (1): AntiReplay is not supported in the platform.  CLEAR (0): AntiReplay is supported in the platform.
1	TPM_CAP_INTC_FLAGS_LOCKOUT_ POLICY_SUPPORT	SET (1): Lockout Policy is supported in the platform.  CLEAR (0): Lockout Policy is supported in the platform.
2-31	Reserved	Shall be zero Reserved for future use

## INTEL\_PROP\_INTC\_EK\_REKEY\_SUPPORT

The request of the INTEL\_PROP\_INTC\_EK\_REKEY\_SUPPORT property returns information about recertification support for different Endorsement Keys (EK) types. The returned values is represented as a bitmask with possible values represented below.

Table 4 — Definition of (UINT32) TPM\_CAP\_INTC\_REKEY\_SUPPORT\_BITMASK Bits

Bit	Name	Description
0	INTC_REKEY_SUPPORT_RSA_256	SET (1): RSA 256 recertification is supported in the platform.  CLEAR (0): RSA 256 recertification is not supported in the platform.
1	INTC_REKEY_SUPPORT_ECC_256	SET (1): ECC 256 recertification is supported in the platform.  CLEAR (0): ECC 256 recertification is not supported in the platform.
2	INTC_REKEY_SUPPORT_ECC_384	SET (1): ECC 384 recertification is supported in the platform.  CLEAR (0): ECC 384 recertification is not supported in the platform.
3-31	Reserved	Shall be zero Reserved for future use

<sup>®2017</sup> Intel Corporation