



NSING Trusted Platform Module endorsement key (EK) certificates

Revision 1.0

Revision History

Revision Date	Revision	Description
2024-07-22	1.0	First released

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1 Introduction

NSING’s TPM product is provisioned with EK certificates during TPM manufacturing. NSING manages its own certificate authority (CA) infrastructure to issue TPM EK certificates.

The TPM EK certificates issued by NSING Intermediate CAs, the Intermediate CA certificates issued by NSING TPM EK Root CAs.

The EK certificate of the RSA is issued by the intermediate certificate of the RSA and the root certificate of RSA chain. The EK certificate of the ECC is issued by the intermediate certificate of the ECC and the root certificate of ECC chain.

The TPM EK certificate is used to prove that a TPM entity is originating from NSING. The certificate issued by NSING can be used to prove the identity of the platform.

The NSING TPM endorsement key (EK) certificates are provided in X.509 format.

This document applies to the products listed in the following table.

Table 1

Items	Product
TPM 2.0	NS350 v30

2 TPM EK certificate Chain

The following tables define the current links between product and Root EK CAs/intermediate EK CAs.

Table 2 ECC Intermediate EK CAs and certificates

Products	Firmware version	CA name	File URL
NS350 v30	30.30	NSING TPM ECC EK CA 001	https://pki.nsing.com.sg/NSEccEkCA001/NS_EccEkCA001.crt or http://pki.nsing.com.sg/NSEccEkCA001/NSEccEkCA001.crt
NS350 v30	30.30	NSING TPM ECC EK CA 002	https://pki.nsing.com.sg/NSEccEkCA002/NS_EccEkCA002.crt or http://pki.nsing.com.sg/NSEccEkCA002/NSEccEkCA002.crt

Note:

1. ECC intermediate CA signed ECC384 TPM EK certificate, if the ECC384 EK certificate is included in the product definition

Table 3 RSA Intermediate EK CAs and certificates

Products	Firmware version	CA name	File URL
NS350 v30	30.30	NSING TPM RSA EK CA 001	https://pki.nsing.com.sg/NSRsaEkCA001/NSRsaEkCA001.crt or http://pki.nsing.com.sg/NSRsaEkCA001/NSRsaEkCA001.crt
NS350 v30	30.30	NSING TPM RSA EK CA 002	https://pki.nsing.com.sg/NSRsaEkCA002/NSRsaEkCA002.crt or http://pki.nsing.com.sg/NSRsaEkCA002/NSRsaEkCA002.crt

Note:

1. RSA intermediate CA signed RSA2048 TPM EK certificate, if the RSA2048 EK certificate is included in the product definition
2. RSA intermediate CA signed RSA3072 TPM EK certificate, if the RSA3072 EK certificate is included in the product definition

Table 4 Root EK CAs and certificates

CA name	File URL
NSING TPM ECC ROOT CA 001	https://pki.nsing.com.sg/NSEccRootCA001/NSEccRootCA001.crt or http://pki.nsing.com.sg/NSEccRootCA001/NSEccRootCA001.crt
NSING TPM RSA ROOT CA 001	https://pki.nsing.com.sg/NSRsaRootCA001/NSRsaRootCA001.crt or http://pki.nsing.com.sg/NSRsaRootCA001/NSRsaRootCA001.crt

Note:

1. RSA Root CA signed RSA Intermediate CA
2. ECC Root CA signed ECC Intermediate CA



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