

IBM z16 Increased Certificate Key Length for HMC & OSA-ICC

August 7, 2024

—
SHARE in Kansas City

Brian Valentine
HMC/SE Development
File Updated: 08-05-24



IBM z16 Increased Certificate Key Length for HMC & OSA-ICC

z16 -- Increased Certificate Key Length for HMC & OSA-ICC

- HMC & OSA-ICC Current key length: 2048 bit
- Increase key length, but give selection options of 2048, 3072, 4096 for new certificates
 - New Default: 3072
- 3072-bit keys required to conform to **EMEA Standards**
 - e.g. <https://www.ecrypt.eu.org/csa/documents/D5.4-FinalAlgKeySizeProt.pdf>
- **Enhancement provided in HMC & SE MCL Bundles H26/S34**
 - Bundle H26 available
 - Bundle S34 available
 - If H26 fix is active & S34 is not on z16 (or z15 or earlier system is targeted),
 - » HMC Certificate will support for longer key length options including SOO (Single Object Operations) to SE/CPC
 - » OSA-ICC Certificate will only provide the 2048 key length option, but z16 CPCs (with S34) will get the 2K, 3K, & 4K options.

z16 -- Increased Certificate Key Length for HMC & OSA-ICC

IBM Hardware Management Console

Home Certificate Management

Certificate Management

Create Selected Advanced

New Certificate

Select	Property	Value
<input type="radio"/>	Version	3
<input type="radio"/>	Serial Number	89268375691180219677855731464793528873
<input type="radio"/>	Issuer	CN=A32HMCTOP.pok.ibm.com
<input type="radio"/>	Valid From	May 4, 2022, 1:47:31 PM
<input type="radio"/>	Valid Until	Oct 23, 2031, 1:47:31 PM
<input type="radio"/>	Subject	CN=A32HMCTOP.pok.ibm.com
<input type="radio"/>	Subject Alternative Names	DNS: A32HMCTOP.pok.ibm.com, DNS: A32HMCTOP, IP: 9.12.38.11
<input type="radio"/>	SHA-1 Fingerprint	c9:9f:2e:ef:42:e5:10:de:3f:7d:94:c0:4a:90:c5:90:3d:86:4b:38
<input type="radio"/>	SHA-256 Fingerprint	f8:6c:88:1c:3c:a8:41:68:85:24:75:48:8a:73:e9:3a:7c:e9:08:a5:35:9a:93:bd:4e:9b:50:3d:aa:e1:e0:16

Apply Cancel Help

RJGD27IHMC: OSA Advanced Facilities

Manage Security Certificates - S17B

Channel ID: 0170
LAN port type: OSC-ICC 3270
Select an action and a location and click **OK**.

Action:

- Export certificate signing request (.csr)
- Export self-signed certificate (.pem)
- Reload self-signed certificate
- Import certificate (.pem or .p7b format)

Location:

- USB drive
- FTP site

Note: Importing a certificate will cause that certificate to be written to OSA card and processed as the most recent certificate. Installing a certificate will cause the most recent certificate to be installed into the OSA's ICC configuration.

OK Cancel Help

z16 -- Increased Certificate Key Length for HMC & OSA-ICC

IBM Hardware Management Console

SEARCH FAVORITES

Home Certificate Management

New Certificate

Enter the following information for the certificate signing request to be created:

Common name: * A101HMCTOP

Organization:

Organization unit:

Country or region: US - United States (of America)

State or province: New York

Locality: Endicott

Number of days until expiration: * 397

Email address:

Subject alternative names: [Edit](#)

Key size: 3072

OK Cancel Help

- 2048
- 3072**
- 4096

Thank you for your time and consideration....

Brian Valentine
HMC/SE Team
X (Twitter): @bdvalent125

Contact for questions or additional feedback:
Brian Valentine, bdvalent@us.ibm.com

