z/OS 3.2 IBM Education Assistant

Solution Name: MK Query Updates

Solution Element(s): ICSF

July 2025





Agenda

- Trademarks
- Objectives
- Overview
- Usage & Invocation
- Interactions & Dependencies
- Upgrade & Coexistence Considerations
- Installation & Configuration
- Summary
- Appendix

Trademarks

- See url http://www.ibm.com/legal/copytrade.shtml for a list of trademarks.
- Additional Trademarks:
 - None

Objectives

Review MK Query Update enhancement

Overview

- Who (Audience)
 - Application programmers
- What (Solution)
 - Provide support for the STATICSB rule which is needed to programmatically obtain master key verification patterns for all CCA master keys using all methods that have been supported.
- Wow (Benefit / Value, Need Addressed)
 - Previously, only some of the MKVP methods were supported making determination of the correct MKVPs impossible.

Usage & Invocation

- Callable service ICSF Query Facility (CSFIQF and CSFIQF6) will now accept a new rule "STATICSB" which will return all master key register statuses and all supported MKVP formats.
- · Sample results (after parsing):

```
card serial = 93ZZ1234
DES NMK state = 1
                       (empty register)
DES CMK state = 2
                       (full register)
DES OMK state = 2
                       (full register)
RSA NMK state = 1
                       (empty register)
RSA\_CMK\_state = 2
                       (full register)
RSA OMK state = 2
                       (full register)
AES NMK state = 1
                       (empty register)
AES CMK state = 2
                       (full register)
AES OMK state = 2
                       (full register)
                       (empty register)
ECC NMK state = 1
ECC CMK state = 2
                       (full register)
ECC OMK state = 2
                       (full register)
DES OMK MDC4 = 2B0C723D1AB9C948E9C9E32E7FF3B7F4
DES CMK MDC4 = DF3A50AE3546612396EF557E8BD074C1
RSA OMK HP
             = EF4C65754B5088C22D03480BC7B952B2
RSA CMK HP
             = E83F158521FEEA23986CC9483DAFD711
RSA NMK HP
             DES OMK VP
             = 1D08F1C67A1B709A
DES CMK VP
             = CA6B408A02371B1D
DES NMK VP
             = 00000000000000000
DES NMK MKAP
            = 00000000000000000
AES OMK VP
             = BF494FF74B86343F
AES CMK VP
             = 2058C870E9D3194F
AES NMK VP
             = 00000000000000000
ECC OMK VP
             = E2FDFFDC8FA7A6CA
ECC CMK VP
             = 78D81AC6C9610A2C
ECC NMK VP
             = 00000000000000000
```

Interactions & Dependencies

- Software Dependencies
 - None
- Hardware Dependencies
 - None
- Exploiters
 - None

Upgrade & Coexistence Considerations

- To exploit this solution, all systems in the Plex must be at the new z/OS level: No
- There is no need for toleration/coexistence APARs/PTFs.

Installation & Configuration

No special installation or configuration actions are needed

Summary

 Callable service ICSF Query Facility (CSFIQF and CSFIQF6) will now accept a new rule "STATICSB" which will return all master key register statuses and all supported MKVP formats.

Appendix

- References
 - Integrated Cryptographic Service Facility Application Programmer's Guide