

# z/OS 3.2 IBM Education Assistant

Solution Name: ICSF Updates Crypto Insights

Solution Element(s): ICSF

July 2025



# Agenda

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# Trademarks

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

# Objectives

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This solution has 3 goals.

- Identify the job instances associated with a crypto request
- Provide the ability to associate crypto usage from different sources to their relevant job instance
- Present the lengths of keys that are normally obfuscated (hidden)

# Overview

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- Who (Audience)
  - z Crypto Discovery and Inventory (zCDI) solution
  - Security Architects, Application Programmers
- What (Solution)
  - Identify the job instances associated with a crypto request
  - Provide the ability to associate crypto usage from different sources to their relevant job instance
  - Present the lengths of keys that are normally obfuscated (hidden)
- Wow (Benefit / Value, Need Addressed)
  - Make it easier for a customer to understand their crypto posture
  - Make it easier to go from a weaker classical crypto posture to a stronger one
  - Make it easier to go from a non-quantum safe posture to one that is quantum-safe

# Usage & Invocation

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The information is presented via the ICSF SMF records which contain crypto usage information.

SMF Type 82 Subtype 31 (Crypto statistics), 40-42 (Key lifecycle), 44-47 (Key Usage) records will:

- Identify the job instances associated with a crypto request
- Provide the ability to associate crypto usage from different sources (e.g. SMF records) to their job instance
- Present the lengths of keys that are normally obfuscated (hidden)

SMF Type 82 Subtype 48 (Compliance Warning) records will:

- Present the lengths of keys that are normally obfuscated (hidden)

# Interactions & Dependencies

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- Software Dependencies
  - None
- Hardware Dependencies
  - None
- Exploiters
  - z Crypto Discovery and Inventory (zCDI) solution

# Upgrade & Coexistence Considerations

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- To exploit this solution, all systems in the Plex must be at the new z/OS level: No
- List any toleration/coexistence APARs/PTFs: None
- List anything that doesn't work the same anymore: None



# Installation & Configuration

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- List anything that a client needs to be aware of during installation and include **examples** where appropriate - clients appreciate these: N/A

# Summary

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ICSF is including additional data in SMF Type 82 Subtypes 31, 40-42, 44-47 that will:

- Identify the job instances associated with a crypto request
- Provide the ability to associate crypto usage from different sources to their job instance
- Present the lengths of keys that are normally obfuscated (hidden)

ICSF is including additional data in SMF Type 82 Subtype 48 records that allows the following:

- Present the lengths of keys that are normally obfuscated (hidden)

# Appendix

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- Publications
  - z/OS Cryptographic Services ICSF System Programmers Guide