

# z/OS 3.2 IBM Education Assistant

Solution Name: ICSF Support for IBM z17 GA1

Solution Element(s): ICSF

July 2025



# Agenda

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- Trademarks
- Objectives
- Overview
- Usage & Invocation
- Interactions & Dependencies
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- Installation & Configuration
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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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- Review ICSF support for z17 GA1 CPACF
  - MSAE11: HMAC generation/verification
  - MSAE12: SHA-3 hashing and SHAKE XOF

# Overview

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- Who (Audience)
  - ICSF application programmers
- What (Solution)
  - Utilize new CPACF functionality available on z17 GA1
- Wow (Benefit / Value, Need Addressed)
  - Improved performance/reduced CPU cost for
    - HMAC generation/verification
    - SHA-3 hashing and SHAKE XOF

# Usage & Invocation

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- Use of the new CPACF functionality is automatic. Customers do not need to perform any actions to take advantage of this.

# Interactions & Dependencies

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- Software Dependencies
  - None
- Hardware Dependencies
  - z17 GA1 added two message-security-assist extensions (MSAE11 and MSAE12) that are used for this initiative.
    - This is only a dependency for better performance.
- Exploiters
  - N/A (no external changes)

# 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
- No toleration/coexistence APARs/PTFs



# Installation & Configuration

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- No special installation or configuration actions are needed

# Summary

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- ICSF will utilize updated CPACF functionality to improve performance and reduce CPU utilization for HMAC generation/verification, SHA-3 hashing, and SHAKE XOF operations.