



# CRYPTOGRAPHY DIAGNOSTIC AND REPORTING SYSTEM

Your Cryptography Management System for z/OS



# CRYPTOGRAPHY DIAGNOSTIC AND REPORTING SYSTEM

## CONTINUOUS REAL-TIME MONITORING OF YOUR Z/OS CRYPTOGRAPHY

In today's world where data security is a necessity, relying solely on encryption tools is no longer sufficient. Many believe that encryption alone may get the job done, however, this approach can leave significant vulnerabilities in your data security strategy.

How well do you know your cryptography operations? Are your cryptography keys protected? Do you know? Has it been recorded? CryptoZ provides these answers and more, all at your fingertips.

CryptoZ is a centralized tool that provides a central location to analyze and report on your cryptography environment. With modern cryptography systems being designed to hide complexity, CryptoZ provides a real-time overview of your cryptographic environment, highlighting areas of concern all in one tool.

Designed for z/OS users who need to be highly productive concerning their mainframe cryptography operations, CryptoZ is the premier suite of cryptography and key management diagnostic and administration tools. Whenever you need a deep dive into your cryptography components, CryptoZ is ready to assist.

## CRYPTOZ: ANSWER CRYPTOGRAPHY QUERIES

CryptoZ is the ultimate diagnostic software for z/OS users, providing unparalleled insights and productivity into your mainframe cryptography.

Where do you look first for answers to your cryptography queries? With CryptoZ, you have a reliable source. It acts as a central repository for your cryptographic operations, ensuring that you can fix issues before an audit may uncover them, helping you avoid a costly fine or potentially compromised data.

CryptoZ offers a real-time, continuous log capturing of cryptographic activity, enhancing your security posture and compliance readiness. Administrators can start CryptoZ and interactively investigate, discover, verify, and interrogate your cryptography environment to reveal the attributes of resources, events, and users, including details of how cryptography is implemented on your mainframe.

CryptoZ offers advanced information on digital certificates and key management. Users can view logs for a full breakdown of security information and analysis, including the ability to check keys on a daily basis, a list of all exceptions or concerns, and more.

## WHO USES CRYPTOZ?

CryptoZ's RACF and SMF Security Report informs users of the status of SMF recording for cryptography related events. By collecting these SMF events, users can audit the use of cryptography resources. A user's preferred SMF reporting tool will help evaluate successful and failed access to cryptography resources.

Organizations that are actively developing and maintaining cryptography applications may also benefit from CryptoZ's useful development and debugging facilities.

Traditional cryptography tools can take days to provide answers, wasting valuable time and leaving your data vulnerable. CryptoZ streamlines the process, diagnosing and troubleshooting cryptography problems before they become a serious issue.

CryptoZ is well suited for any business operating z/OS cryptography. It is designed specifically to support the full enterprise through extensive cryptographic techniques and provide a full overview of an organization's security protocol efforts. By providing 'under the hood' access to operations, users can regain full control over their everyday use of cryptography and remain proactive about accomplishing specific maintenance tasks.

A non-invasive Z System product, CryptoZ is designed to work effortlessly with systems already in place. The short installation and setup process mean users can be well on their way to using the system in a matter of hours. Whether a small business or a global enterprise, CryptoZ will work with your environment in mind, allowing you to focus on other essential daily tasks.

## CRYPTOZ WORKS ALONGSIDE MEGACRYPTON



### MEGACRYPTON

**Rated the #1 OpenPGP Enterprise and z/OS encryption product on the market!**

**Enhance your data security with this all-in-one flexible encryption toolkit. Whether utilizing hardware encryption, full-disk encryption, ICSF, CPACF, or Pervasive Encryption, MegaCrypton will eliminate your security exposures and protect your valuable resources. Available for z/OS with additional tools available for PC, IX, IDMS, and DB2.**

**Review the active status of ICSF, CPACF, Integrated Coprocessors, PCI Coprocessors, the CKDS, PKDS, security exceptions and concerns, and the current users of cryptography.**

## KEY FEATURES AND BENEFITS:

<b>DEEPER DIVE</b>	Provides extensive 'under the hood' access to ICSF, CPACF, RACF, and more.
<b>EFFICIENCY &amp; PRODUCTIVITY</b>	Streamlines organizational procedures, diagnosing problems productively and efficiently.
<b>GO-TO FOR QUERIES</b>	Acts as a central repository for any and all cryptographic queries.
<b>REAL-TIME MONITORING</b>	Enhances security posture and compliance readiness.
<b>PROACTIVE SECURITY</b>	Avoid security problems before they start.
<b>UNDERSTANDING</b>	Detailed insights on digital certificates and keys.
<b>HINTS &amp; TIPS</b>	Configuration recommendations for ICSF data sets and crypto settings.
<b>EASY INSTALL</b>	Simply receive, configure, and go.
<b>INTUITIVE UI</b>	A simple, easy-to-use UI with extensive help panels and documentation.
<b>METADATA</b>	Options to view, modify, and update metadata on KDSRL records.
<b>ICSF DATA SETS</b>	Examine attributes and content of *KDS data sets.
<b>ICSF SERVICE CALLS</b>	Issue ICSF CSN* service calls without writing programs.
<b>NO READ ACCESS REQUIRED</b>	Access key data store datasets to use certain functions.
<b>REGULAR UPDATES</b>	To support newest ICSF features.

## CRYPTOZ ADVANCED INFORMATION REPORT

CryptoZ's Advanced Information Report consolidates and summarizes 15 categories of dynamically obtained ICSF Query Facility data into an insightful summary, enabling informed analysis into the status and availability of hundreds of cryptographic resources and operations.

Information in the report may be useful for informing and improving your ICSF operations. Browse the report to observe the current status of cryptographic services, available algorithms and options, status of master key elements, token wrapping methods, the status of physical security of the cryptography hardware. and much more.

The ICSF services displayed in the report include:  
 ICSFSTAT - ICSF related status information.  
 ICSFST2 - Additional ICSF related status information.  
 ICSFOPTN - ICSF options  
 ICSFCARD - coprocessor-related basic status information  
 CSFIQF2 - status information about the cryptographic environment  
 CSFIQA - cryptographic and hash algorithms available  
 STATCCA - CCA-related status information.  
 STATCCAE - CCA-related extended status information.  
 STATAES - status of AES master key registers  
 STATPKA - status of ECC master key registers  
 STATEXPT - coprocessor-related basic status information  
 WRAPMTHD - default settings for wrapping method  
 STATDIAG - coprocessor-related basic status information  
 ICSFSP11 - ICSF-related PKCS #11 status information  
 STATP11 - PKCS #11 coprocessor-related status information

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Option ==> ----- Scroll: CSR_

- Modify List options

PRT to print

Type of information      Value      description
==== STATEXPT Data:
Base CCA Service Availability 1      Available
CDMF Encryption availability 0      Not available
56-bit DES availability     1      Available
Triple-DES availability     1      Available
SET Services availability   1      Available
Max modulus for symm key encr 4096   bits
==== WRAPMTHD Data:
Dflt wrap method for int tkns 0      Keys wrapped with the original method
Dflt wrap method for ext tkns 0      Keys wrapped with the original method
==== STATDIAG Data:
State of coprocessor battery 1      Battery is good
Intrusion latch on coproc.   1      Latch is cleared (no intrusion)
Coprocessor CCA error log    1      Error log is empty
Protective mesh intrusion    1      No physical intrusion detected
Low voltage detection        1      Acceptable voltages detected
High voltage detection       1      Acceptable voltages detected
Temperature range checking   1      Temperature acceptable
Radiation detection in module 1      No radiation has been detected
Last command run (#5)       T2 FQ
RC from last command (#5)   00000000
Last command run (#4)       T2 FQ
RC from last command (#4)   00000000
Last command run (#3)       T2 FQ
RC from last command (#3)   00000000
Last command run (#2)       T2 FQ
RC from last command (#2)   00000000
Last command run (#1)       T2 FQ
RC from last command (#1)   00000000
    
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“CryptoZ is a vital productivity tool for analyzing and managing cryptography on our mainframes. No other application provides the scope and depth of cryptography and security exploration in one simple tool.”



# Crypto<sup>z</sup>

YOUR CRYPTOGRAPHY MANAGEMENT SYSTEM FOR Z/OS



ADVANCED SOFTWARE PRODUCTS GROUP, INC.

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