



# CRYPTOGRAPHY REPORTING AND ADMINISTRATION SYSTEM

Your Cryptography Management System for z/OS



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## BEHIND-THE-SCENES LOOK AT YOUR Z-SYSTEM CRYPTOGRAPHY

Cryptography plays a vital role in protecting today's businesses. The encrypting and decrypting of private or confidential data is an imperative part of an organization's security procedures. Yet, the cost and manpower of these efforts can present a significant challenge to an organization's operational efforts.

By their very design, cryptography systems strive to hide complexity and details from their end users. Most of the time, this is a benefit, however it can also serve as an unwanted shroud of mystery. At these times, CryptoZ can help lift the veil and shine a light on a user's cryptography infrastructure.

Designed for CSO Administrators, CryptoZ is the premier suite of cryptography and key management diagnostic and administration tools, built for Z series mainframes.

Whenever you need a deep dive into your cryptography components, CryptoZ is ready to assist.

## CRYPTOZ: YOUR CRYPTOGRAPHY MANAGEMENT SYSTEM FOR Z/OS

Should the unthinkable happen, CryptoZ provides quick and direct access to extensive real-time cryptography information via simple menus inside a convenient all-in-one product. By having a more accurate overview of operations, security administrators can better predict future events and stay on top of critical security protocols.

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 many more.

**"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."**

## CRYPTOZ WORKS ALONGSIDE MEGACRYPTON



## MEGACRYPTON

**Rated the #1 OpenPGP Enterprise  
and ZSystem encryption product  
on the market!**

CryptoZ works alongside the  
MegaCrypton cryptography  
toolkit.

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  
Coproducts, PCI Coprocessors,  
the CKDS, PKDS, security  
exceptions and concerns,  
and the current users of  
cryptography.**

## KEY FEATURES AND BENEFITS:

DEEPER DIVE	Provides extensive 'under the hood' access to ICSF, CPACF, RACF, and more.
UNDERSTANDING	Detailed insights on digital certificates and keys.
HINTS & TIPS	Configuration recommendations for ICSF data sets and crypto settings.
EASY INSTALL	Simply receive, configure, and go.
INTUITIVE UI	A simple, easy-to-use UI with extensive help panels and documentation.
METADATA	Options to view, modify, and update metadata on KDSRL records.
ICSF DATA SETS	Examine attributes and content of *KDS data sets.
ICSF SERVICE CALLS	Issue ICSF CSN* service calls without writing programs.
NO READ ACCESS REQUIRED	Access key data store datasets to use certain functions.
REGULAR UPDATES	To support newest ICSF features.

## WHO USES CRYPTOZ?

CryptoZ provides a vantage point from which an IT Security Administrator or Systems Programmer may survey the landscape and get an overall look at an organization's cryptography landscape.

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 Log S0W1 SVSCPLEX ----- 2022.187 14:02
BROWSE Log of current crypto and security events Line 00001536 Col 001 080
Command ==> Scroll ==> CSR
2022182 14:06:38 ICSF 0005 DUPLICATE TOKENS IN ASPG.CSFPKDS
2022182 14:06:38 CSFC0322 DUPLICATE TOKENS FOUND IN DATASET ASPG.CSFPKDS.
2022182 14:06:40 CSFM653I TKDS LOADED 26 RECORDS WITH AVERAGE SIZE 1371
2022182 14:06:41 CSFM129I MASTER KEY DES ON CRYPTO EXPRESS5 COPROCESSOR 5C04, SE
2022182 14:06:41 CSFM129I MASTER KEY AES ON CRYPTO EXPRESS5 COPROCESSOR 5C04, SE
2022182 14:06:41 CSFM129I MASTER KEY RSA ON CRYPTO EXPRESS5 COPROCESSOR 5C04, SE
2022182 14:06:41 CSFM129I MASTER KEY ECC ON CRYPTO EXPRESS5 COPROCESSOR 5C04, SE
2022182 14:06:41 CSFM111I CRYPTOGRAPHIC FEATURE IS ACTIVE. CRYPTO EXPRESS5 COPRO
2022182 14:06:41 CSFM130I CRYPTOGRAPHY - RSA SERVICES ARE AVAILABLE.
2022182 14:06:41 CSFM130I CRYPTOGRAPHY - ECC SERVICES ARE AVAILABLE.
2022182 14:06:41 CSFM133I THERE ARE NO ACTIVE PKCS11 COPROCESSORS.
2022182 14:06:41 CSFM508I CRYPTOGRAPHY - THERE ARE NO CRYPTOGRAPHIC ACCELERATORS
2022182 14:06:41 CSFM015I FIPS 140 SELF CHECKS FOR PKCS11 SERVICES SUCCESSFUL.
2022182 14:06:42 CSFM400I CRYPTOGRAPHY - SERVICES ARE NOW AVAILABLE.
```

This menu may be used to display recent security events captured by CryptoZ. This customizable log includes options and parameters for trapping events from ICSF, RACF, SMF, and System messages and events.

```
----- CryptoZ - Advanced information --- Row 1 to 34 of 187
Option ==> Scroll: CSR
Modify List options
PRT to print

Type of information      Value      description
==== ICSFSTAT Data:
SMP/E FMID of ICSF product HCR77C1
ICSF current status      3          Full function, Pub-Key services enabled
ICSF status (64-bit, PKCS11) 2          64-bit callers & PKCS11 supported
CPACF availability       9          DRNG is available
AES availability for clear Ke 3          AES-128, AES-192 and AES-256
DSA algorithm availability 0          DSA not available
RSA Signature key length  3          RSA 4096 key size
RSA Signature key length  3          RSA 4096 key size
```

The status of ICSF, the crypto card(s), and available algorithms is displayed. Each line lists the value of a status field with a description of the result. Optionally select Modify List to filter and reorder the results displayed in the list.



# Crypto<sup>z</sup>

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IT COMMUNITY SINCE 1986



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