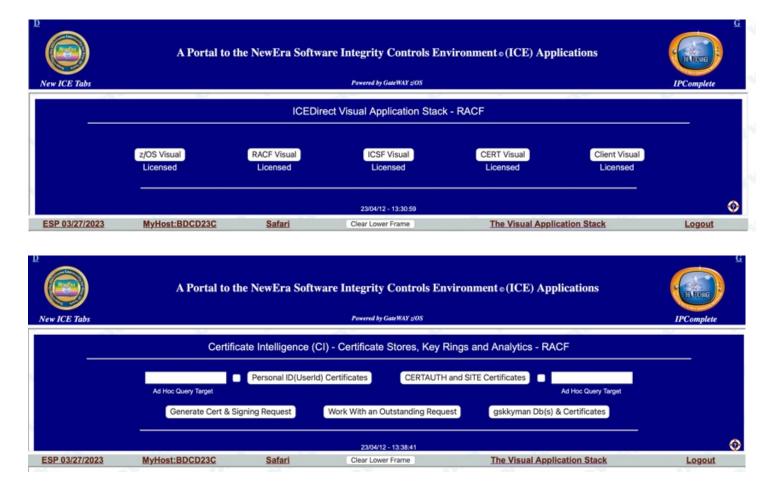
## Certificate Intelligence - A Modern and Efficient Way to Manage Mainframe Certificates

Certificate Intelligence provides the capability that is needed to manage all aspects of digital certificates for the mainframe environment and applications. A modern, secure web interface will simplify the processes needed to ensure the integrity of your certificates. Assist in the creation and installation of Certificates and Rings, validating each step toward certification and activation.

Researching and validating the handshake that you expect between a z/OS system and any remote Server is complex. When the connection fails it can be, to say the least, frustrating. The details of possible missteps start long before any attempt is made. Network actors such

as Server Domains and Configurations merge with the Client Key Rings, Certificates, ICSF, ESM Profiles/Permits, Ciphers and Protocols together with each playing a part in establishing a successful connection.

Certificate Intelligence is one of the applications within the Visual stack of ICEDirect. Other applications that are available to provide support for certificates and overall security, are RACF Visual, and ICSF Visual for inspections and configuration support for RACF and ICSF. The Client Visual is a testing and certification tool that can monitor and test certificate handshake connections between the z/OS LPARs and any remote connections.

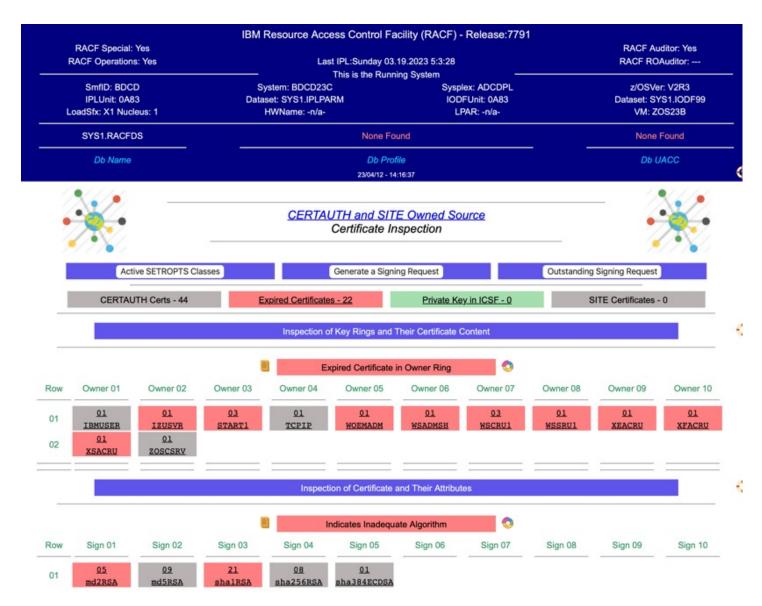


The Certificate Intelligence capability begins with an inspection of the Digital Certificates stores in the ESM, ICSF or the gskkyman databases. With this inspection completed it is easy to identify any existing or approaching problems with your personal or site certificates. From the same panel where the result of the inspection is displayed, actions can be requested with a simple click of the mouse to take action and have the necessary commands generated and submitted.



## Certificate Intelligence

From this Certificate Inspection results display it is possible to perform tasks such as Re-Keying, Deleting, Installing, Connecting, Altering, Generating, or Submitting a signing request to a signing authority. There is also a link to the RACF SETROPTS classes display so that any actions that needs to be done within RACF can also be performed with the same point and click capability.



## Certificate Intelligence



From this Certificate Inspection results display, you can see the full inventory of your certificates. Any existing or potential problems are easily identified and full detail for any certificate can be displayed with simple click of a mouse. The Ring to which a certificate maybe linked with, and the ownership of the Ring and the Certificate is also

available. The creation of a Ring and Certificate can be accomplished from this panel with all commands being generated and submitted by a request with a simple click. All action taken by the user is logged for audit and forensic information.

## Certificate Intelligence

Inspection of Certificate by Label Name - Sorted Desending													
0	Owned by CERTAUTH Owned by the SITE Indicates TRUST					Indicates NOTRUST			Indicates HIGHTRUST				
E	Expires in Less than 30 days		Certificate has Expired	Expires in Le	Expires in Less than 60 Days			Not an Acceptable GASP					
Row	Status	Own	CERTAUTH and SITE Owned C	Certificates	Pvk	KeyUse	0	œ	8	End Date	0		
001	TRUST	С	Z23CDomainCA	,	Yes	CertSign		œ	8	2050/12/31		_	
002	TRUST	С	SSLDomainCA		Yes	CertSign		00	8	2050/12/31			
003	TRUST	С	Dal22DomainCA		Yes	CertSign		00	8	2050/12/31			
004	TRUST	С	LibertyCA.zOSConnect		Yes	CertSign		00	8	2050/12/31			
005	TRUST	С	AdcdShrCA		Yes	CertSign		œ	8	2050/01/01			
006	NOTRUST	С	Verisign Class 3 Primary CA - G4		No	CertSign			8	2038/01/18			
007	NOTRUST	С	Verisign Universal Root CA		No	CertSign			8	2037/12/01			
800	NOTRUST	С	Verisign Class 3 Primary CA - G5		No	CertSign			8	2036/07/16			
009	NOTRUST	C	Verisign Class 4 Primary CA - G3		No	NotKnown			8	2036/07/16			
010	NOTRUST	С	Verisign Class 3 Primary CA - G3		No	NotKnown			8	2036/07/16			
011	NOTRUST	С	Verisign Class 2 Primary CA - G3		No	NotKnown			8	2036/07/16			
012	NOTRUST	С	Verisign Class 1 Primary CA - G3		No	NotKnown			8	2036/07/16			
013	NOTRUST	С	STG Code Signing CA - G2		No	CertSign			8	2033/05/31			
014	TRUST	С	DIGICERT		No	CertSign			8	2031/11/09			
015	NOTRUST	С	Verisign Class 4 Primary CA - G2		No	NotKnown			8	2028/08/01			
016	NOTRUST	С	Verisign Class 3 Primary CA - G2		No	NotKnown			8	2028/08/01			
017	NOTRUST	С	Verisign Class 2 Primary CA - G2		No	NotKnown			8	2028/08/01			
018	NOTRUST	С	Verisign Class 1 Primary CA - G2		No	NotKnown			8	2028/08/01			
019	NOTRUST	С	Verisign Class 2 Primary CA		No	NotKnown		-	8	2028/08/01			
020	NOTRUST	С	Verisign Class 3 Primary CA		No	NotKnown		0	8	2028/08/01			
021	NOTRUST	С	STG Code Signing CA		No	CertSign		_	8	2028/06/30			
022	TRUST	С	JES2CA_EDS		Yes	CertSign		00	8	2027/05/31	_		
023	NOTRUST	С	GeoTrust Global CA		No	NotKnown			8	2022/05/20	0		
024	TRUST	С	ZOSMFCA		Yes	CertSign		00	8	2021/08/20	0		
025	NOTRUST	С	ICP-Brasil CA vl		No	CertSign			8	2021/07/29	0		
026	NOTRUST	С	Thawte Personal Premium CA		No	NotKnown		0	8	2020/12/31	0		
027	NOTRUST	С	Thawte Personal Freemail CA		No	NotKnown		00	8	2020/12/31	0		
028	NOTRUST	С	Thawte Personal Basic CA		No	NotKnown		00	8	2020/12/31	0		
029	NOTRUST	С	Thawte Premium Server CA		No	NotKnown		00	8	2020/12/31	0		
030	NOTRUST	С	Thawte Server CA		No	NotKnown		0	8	2020/12/31	0		
031	NOTRUST	С	Verisign Class 1 Primary CA		No	NotKnown		0	8	2020/01/07	0		
032	NOTRUST	С	Entrust Secure Server Root CA		No	CertSign			8	2019/05/25	0		
033	TRUST	С	WebSphereCA		Yes	CertSign		0	8	2018/12/31	0		

There is more information and examples of ICEDirect and Certificate Intelligence available in the recorded presentations listed below. Please review them to get a more complete understanding of how these applications can be a benefit to you and your organization. You can also contact NewEra Software for a more detailed discussion in a webcast and DEMO session for you and your staff.

https://www.newera.com/INFO/CI\_Intro1.mp4 https://www.newera.com/INFO/CI\_Intro2.mp4

