SPARTA USER GROUP MEETING. JUNE 2021

- Learn about the latest innovation from NewEra Software, Inc.
- Agenda:
 - Short product review.
 - Introduction to the issues going forward.
 - Finding a better way.

Glennon Bagsby GHB@NEWERA.COM





THE NewEra products

The Control Editor (TCE)
Image Focus (IFO)

Integrity Controls Environment (ICE)



NewEra Software - Our Mission

NewEra Software continues to support z/OS professionals by helping them maintain the highest levels of operational integrity and readiness of their z/OS environment. We do this by providing innovative products and unique tools that monitor, protect, and evaluate the most critical datasets and assets of the z/OS Platform with the Integrity Controls Environment (ICE).











Stand Alone Environment SAE.

Repair IPL failures
IPL directly from DASD TAPE CDROM USB drive Network File
Terminal interface on HMC Integrated console or 3270
Single USER ISPF like interface
EDIT functions for PDS datasets
ERASE of DASD volumes

New interface to Image Focus. SAEBATA



Another First in Innovation, Quality and Service



Image Focus IFO

Inspects configuration files
SYSPLEX, z/OS, JES, VTAM, TCP/IP, CICS
SERVAUT, PAGENT
PROGRAM FAULTS, ie...S047 ABENDS
CSFPRMxx for ICSF Inspections

Creates profiles and history of configurations to detect changes. Detects Dynamic changes not harden into PARMLIB members.

New BATCH jobs ICEBATA and SAEBATA



Another First in Innovation, Quality and Service



The Control Editor TCE

Can provide additional levels of control of events to critical datasets and files.

Multi Factor Access controls (MFE)

Member level access rights by USERID

Email notifications to stake holders

Can enforce documentation standards

Provides automatic backup of changes (versions)

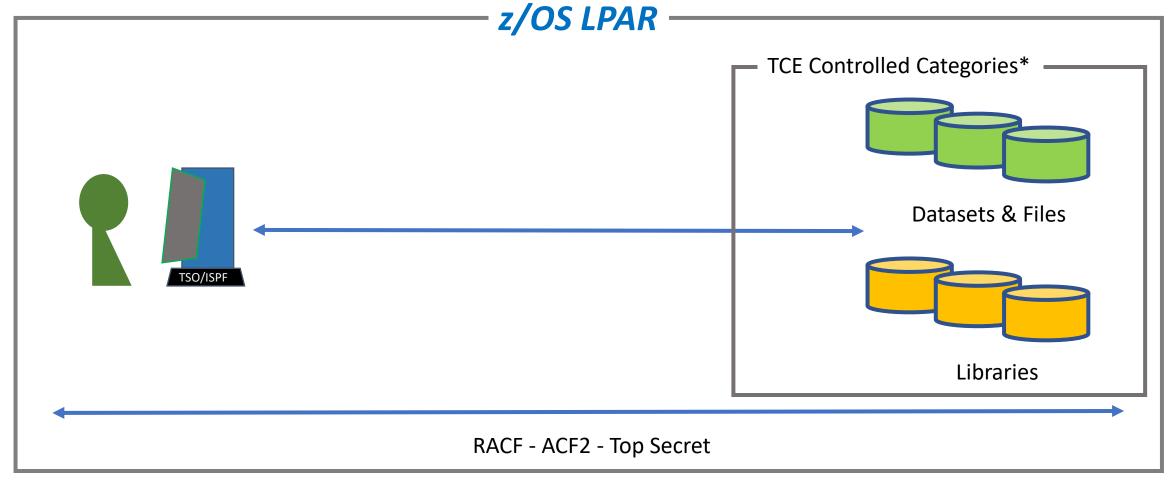
Provides for compare and restore functions

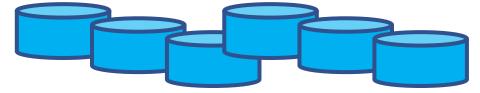
Provides for standard and query base reporting from journals.



Another First in Innovation, Quality and Service

Multi-Factor Edit (MFE) – Edit & Fully Control

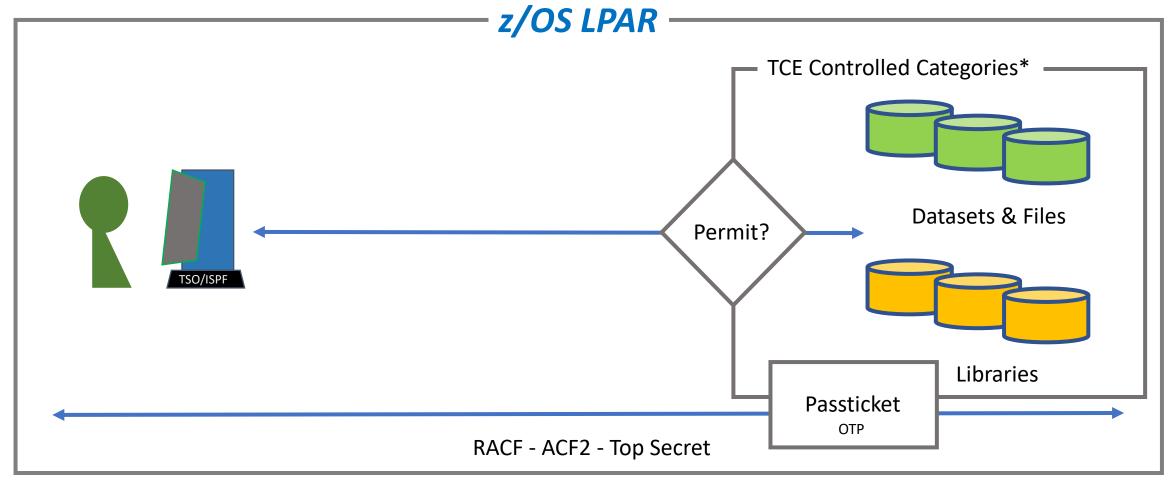




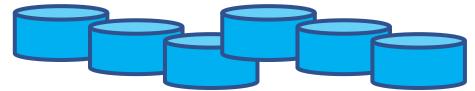
*NIST - Dependency Mapping SP 800-207 August 2020



Multi-Factor Edit (MFE) – Edit & Fully Control



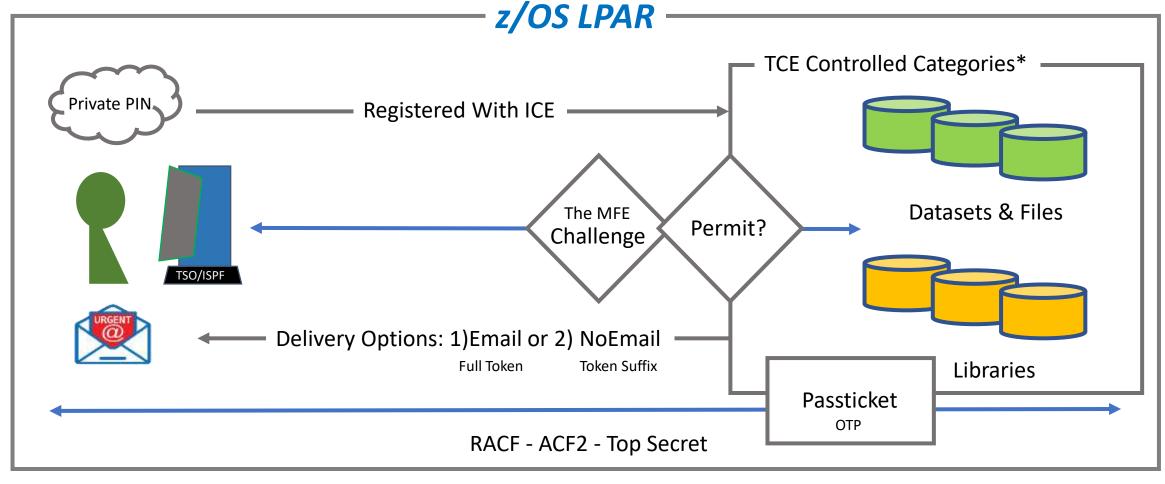
* Excessive access checking - The core part of protecting z/OS from malicious, hurtful activities. (ZTA)



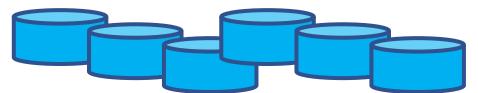
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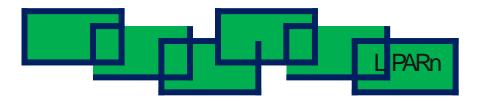
LPAR and Sysplex Inspections Policy Decision and Enforcement Points W(E) Inspection Logs, Baselines & Clusters Controlled Categories and Journals



ICEDirect – VTAM Based Interface to the ICE Dataspace:

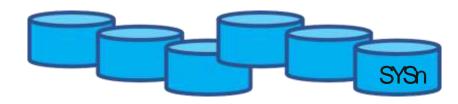
The ICE Dataspace

Automated System Configuration Inspection

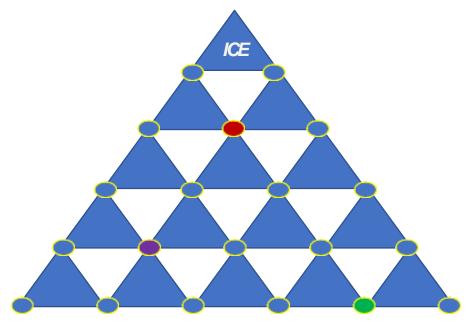


Inspection Logs, Baselines & Sysplex Gusters

Resource Policy Decision & Enforcement Points

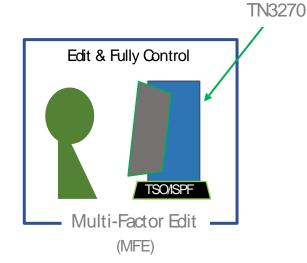


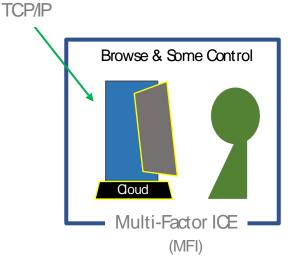
Resource Categories* and Event Journals



ICEDirect – A 3270 and Cloud Based Interface to the ICE Dataspace

Automated System Configuration Inspection Resource Policy Decision & Enforcement Points Inspection Logs, Baselines & Sysplex Gusters Resource Categories* and Event Journals

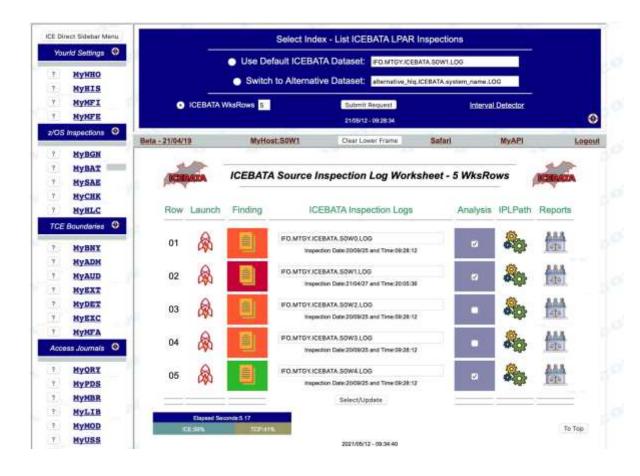




^{*} Zero-Trust Architecture (ZTA) - NIST SP800-207 August 2020: 1) Dependency Mapping; 2) Excessive access checking - The core parts of protecting z/OS from malicious, hurtful activities.

Welcome to ICEDirect – Safari, Firefox, Edge and/or Chrome:

```
ICE 16.0 - MY ICE Direct ShortCuts - PROBIL
NSIMCTL 0803
→ For UserId Specific Identity and Multi-Factor Edit Settings.
   .. MyWHO .. MyHIS .. MyPIN .. MyPMT .. MyEML .. MyDEL .. MyEXP
For Accessing Control Editor Event Journal Records.
   .. MyQRY .. MyPDS .. MyMBR
                                                  .. MyMOD
                                         .. MyLIB
   .. MyUSS .. MySEQ
                     .. MyUSR
                               .. MyCMD .. MyMSG
                                                  .. MyVOL
For Updating and Activating The Control Editor Control Settings.
   .. MyADM .. MyAUD .. MyACT .. MyCTL .. MyBNY
                                                       .. MyMFE
> For Access to Image FOCUS Inspections, Packages and Messages.
   .. MyBGN .. MyPAK .. MyBAT .. MyCHK .. MyMID
> For Multi-Functional Command Line MY Application Interfaces.
                            Click Here
```



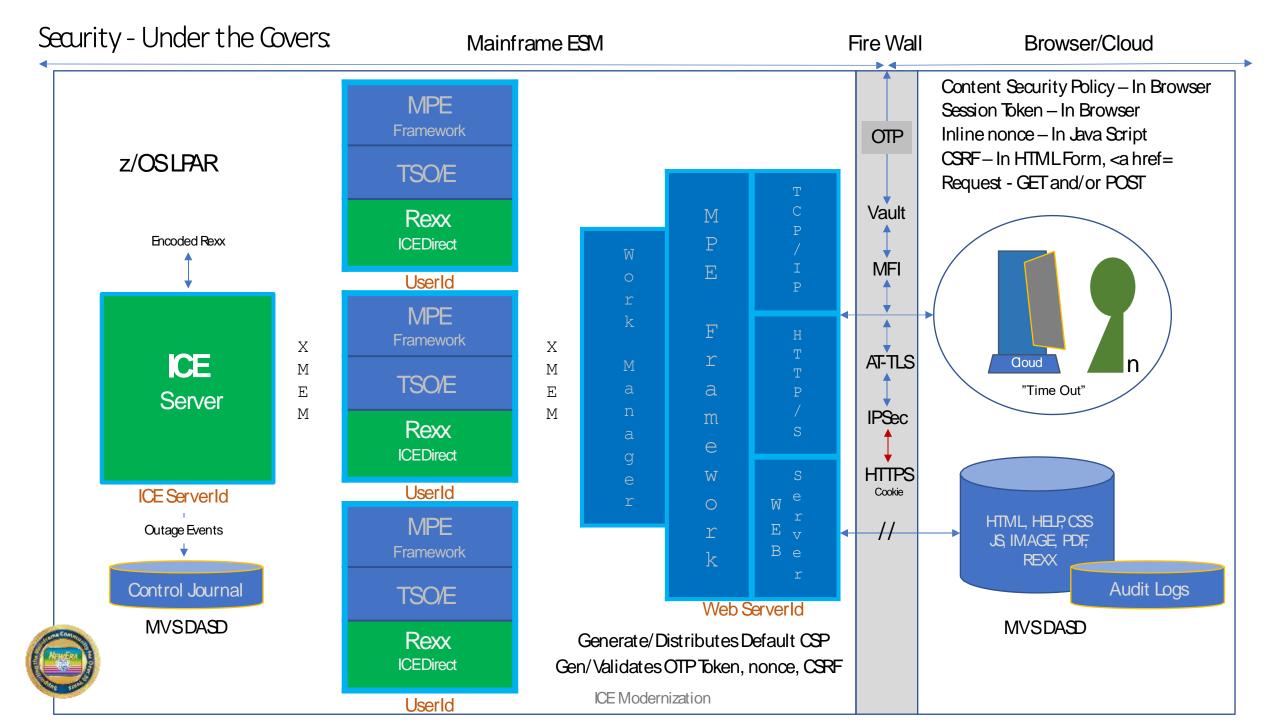


The Integrity Controls Environment (ICE) – Development Directives:

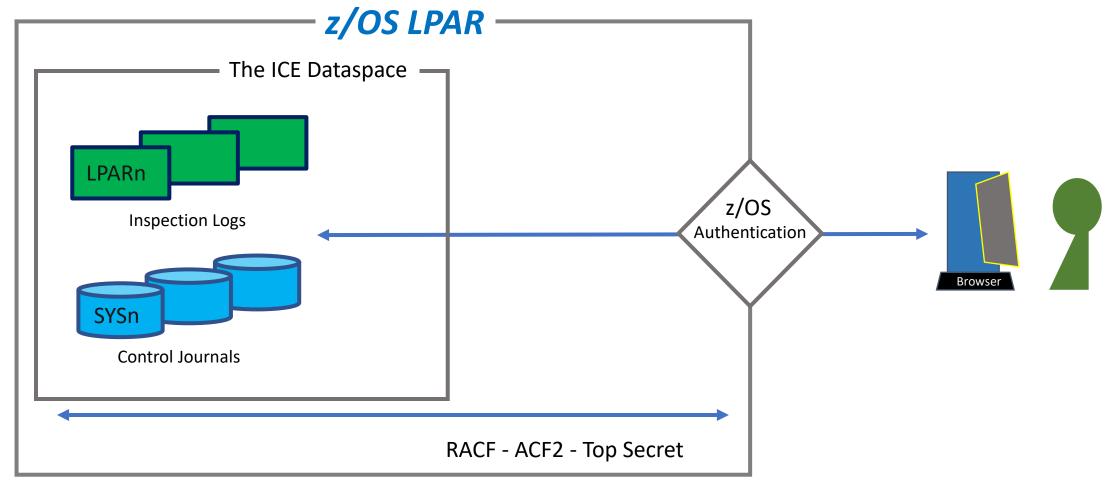
- The Integrity Controls Environment (ICE) is a <u>purpose-built</u>, proprietary z/OS software utility, developed and maintained by NewEra Software.
- It contains <u>NO public domain source code</u>, exclusively supports two primary applications: Image FOCUS (Inspections) and The Control Editor (Resource Control).
- Its installation <u>package is digitally signed</u> with an encoded HASH. This "Digital Key" is asynchronously delivered electronically and is used to verify that the package was not tampered with prior to installation.
- All components of an ICE install, are programmatically *Closed* to all others with NO external servers required.

Consider – Apache, Tomcat, Liberty Servers & Zowe – Open to all and all likely to contain public domain source.





Multi-Factor ICE (MFI) – Browse & Some Control

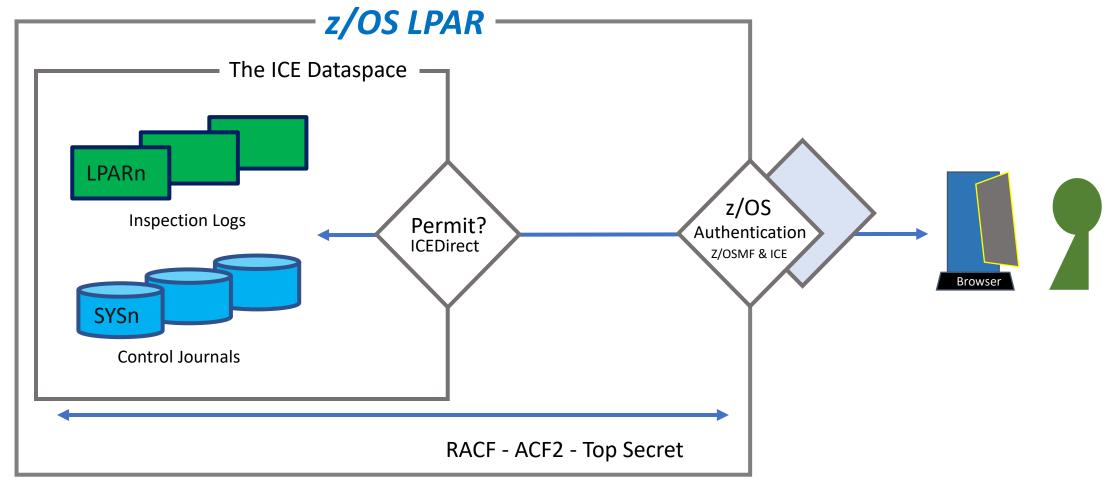


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z/OSMF - A "Best Practices" Option



Multi-Factor ICE (MFI) – Browse & Some Control

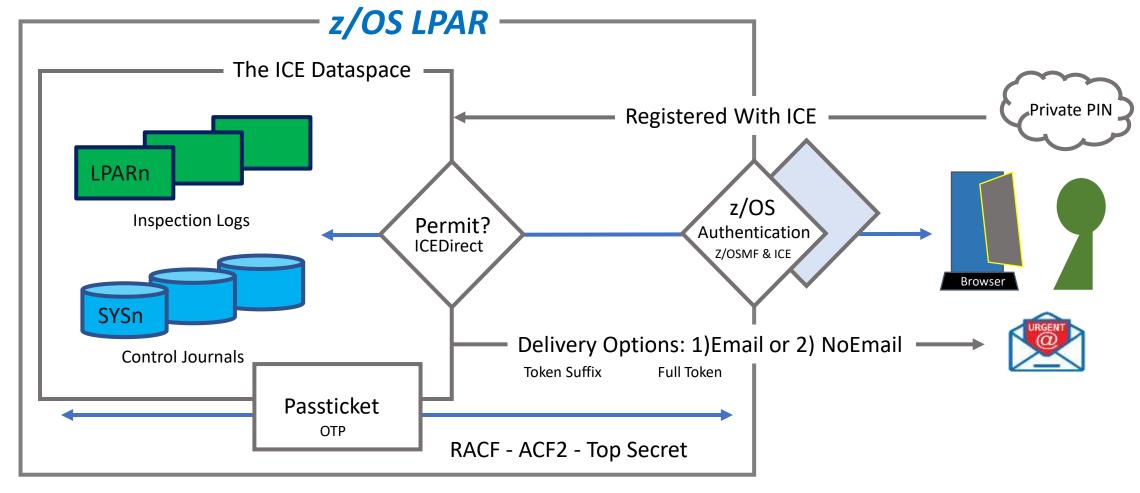


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z/OSMF - A "Best Practices" Option



Multi-Factor ICE (MFI) – Browse & Some Control



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z/OSMF - A "Best Practices" Option





Penetration testing for an evolving attack surface



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