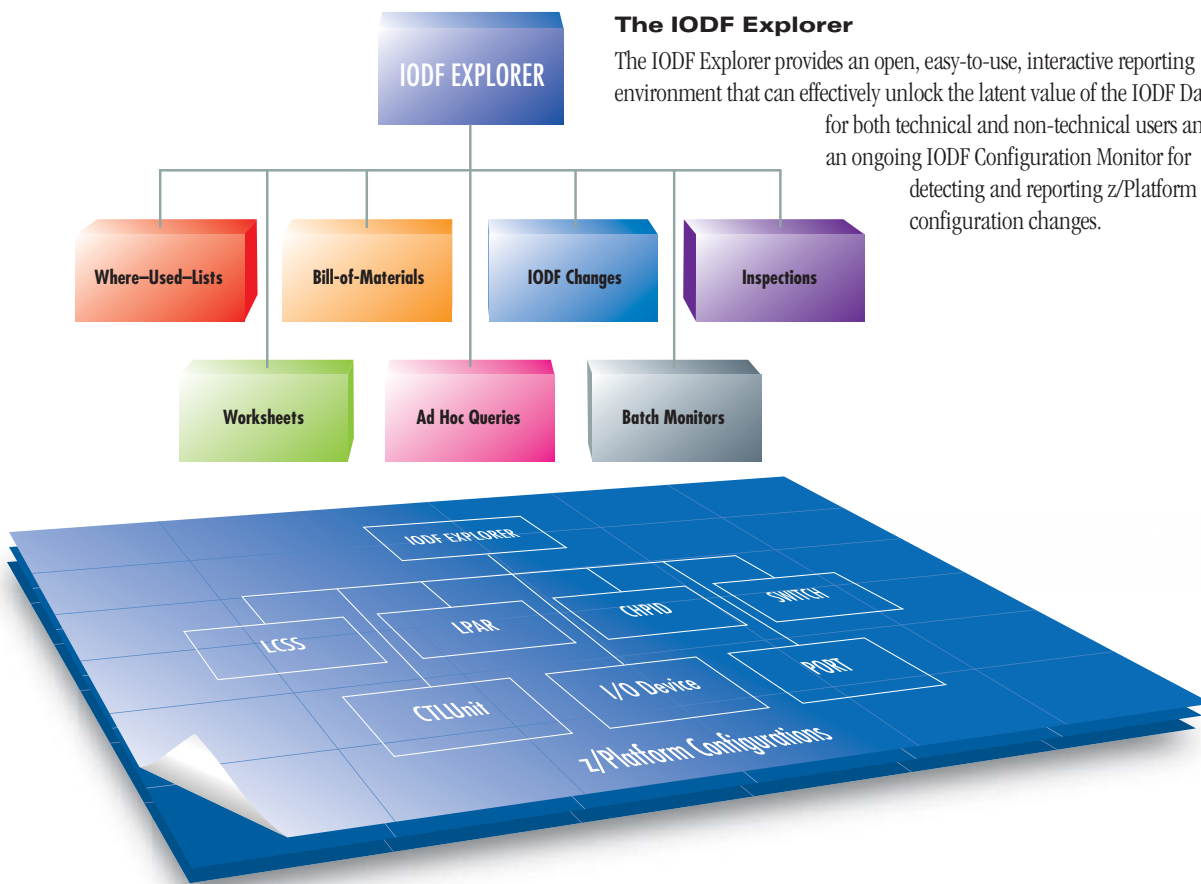




Monitor the z/Platform for IODF Configuration Changes for as little as \$100.00 per LPAR per Year

The Input/Output Definition File (IODF) is the set of logical configuration statements that are used to define a network of z/Platform resources. These resources are generally available to both the z/OS operating system (OSCP) and the z/Platform hardware (IOCP) and any related ESCON/FICON Directors (SWCP). Because of its vital role in shaping the environment, the IODF is viewed as a major *Control Point* of high informational value in maintaining the accuracy, integrity and security of the z/OS Operating System and its associated z/Platform hardware (The Mainframe).



The IODF Explorer

The IODF Explorer provides an open, easy-to-use, interactive reporting environment that can effectively unlock the latent value of the IODF Dataset for both technical and non-technical users and as an ongoing IODF Configuration Monitor for detecting and reporting z/Platform configuration changes.



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IODF Explorer Functions

The IODF Explorer provides a unique set of functions that support access to one or more IODF Datasets and their individual Configuration Elements: OSCP, IOCP and SWCP. Using the trusted IBM module CBDMGHCP, the IODF Explorer automatically extracts and stores the full set of Macro Statements found in a targeted IODF Dataset. The resulting data structure is designed and organized to allow interactive users and batch applications easy access to progressively greater levels of detail for use in configuration analysis and change detection and reporting.

Where–Used–Lists

A “Where–Used–List” details which Processors, OS Configurations or Switches use a named IODF Component, such as Control Units, I/O Devices, NIPCONS, EDTs, and PORTs. Informational Reports present a complete picture of all component usage and dependencies, while Change Reports detail the impact that, for example, a single and/or multiple changes can have on all IODF Element Configurations.

Bill-of-Materials

Like a common Parts List, the Element “Bill-of-Materials” detail what is needed to build the full configuration of each IODF Element: OSCP, IOCP and SWCP by IODF Component: LCSS, LPAR, CHPID, Switch, Control Unit, and I/O Device. Informational Reports present a complete picture of the components that comprise a named Configuration Element. Change Reports pinpoint, in summary and detail, the effect of component changes on a named Configuration.

Component Lists

At the lowest level of detail, “Component Lists” are used to reveal the implied internal structure inherent in each IODF Configuration Element. They present a “MAP” of the Element’s structure, pinpointing internal connections and paths between components.

```

----- Image SENTRY - IODF Explorer 6.0 - Datasets & Elements -----
Wx -- ----HWSC0001----- ----IODF Dataset Elements----- --Last--
-- -- ----HWSCP----- --HWSCP--- --HARDWARE--- --SWITCH--- --IODF---
-- -- ----IODF Dataset----- --OSCPs--- --IOCPs--- --SWCPs--- --Update--
-- Cm ----HWSCP----- Cm --osid-- Cm --procid#-- Cm --procid-- MM/DD/YY
-----
M1 .. SYS2.IODF4C .. YDEV .. XYZ1CPDD .. LMN1CPUA 05/28/13
W2 .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. ..
W3 .. SYS2.IODF4C .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. ..
W4 .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. ..
W5 .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. ..
-----
M6 .. PROB11.IODF87.WORK .. EXXLPARS .. PROCEAST .. PROCWEST 11/23/09
W7 .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. ..
W8 .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. ..
W9 .. SYS2.IODF4C .. XDEV .. CPUX .. ABC1CFX 05/28/14
W0 .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. ..
-----
.. .. Extracting Source Deck .. Settings .. Working with IODF Source Element
    
```

IODF Changes

It is considered a **Best Practice** to create a “Baseline” of each production IODF Dataset and subsequently compare/contrast it with IODF updates, reconciling all detected changes with a specified change authority before moving the updates into production. Change Reports detail all changes across the full IODF Dataset and each Configuration Element: OSCP, IOCP and SWCP.

Inspections

Inspection Reports detail potential conflicts that could result in a loss of connectivity and/or overall z/Platform integrity, opening the system’s “Front Door” to an unwanted intrusion. For example, when used to evaluate OS Configurations, the cross-system’s LOADxx Parmlib Members are accessed to determine if named OSCP ConfigIDs have matching LOADxx definitions.

Worksheets

IODF Explorer Worksheets are interactive ISPF Tables that present a set of five integrated configuration views that display the individual components that comprise one or more of the Configuration Elements: OSCP, IOCP and SWCP. Each of the Worksheets supports the sorting, filtering, ad hoc reporting and exporting of data.

Ad Hoc Queries

While IODF Explorer Reporting is extensive and detailed, special configuration projects and research may require the creation of Ad Hoc Reports. The IODF Explorer supports Full IODF Dataset and Individual Element Query, Reporting and Exporting of configuration data as CSV files.

Batch Monitors

A Batch Monitor/Application is provided that can be used in conjunction with a site’s job scheduler or the supplied interval monitor and internal Email Client to systematically detect and report IODF Configuration Changes. Change Reports at the Summary and/or Detail level can be selectively sent to a user-definable notification list.

Resource Links

- www.newera.com/IODFexpr/product_overview.pdf
- www.newera.com/IODFexpr/product_description.pdf
- www.newera.com/IODFexpr/product_documentation.pdf

