

S H A R E

Technology • Connections • Results



Documenting and Reporting Changes in Your IODF

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Before we begin.... a Brief History lesson



- Does anyone remember a product named SHAMAN?
 - It was an acronym for System HARDware MANager
 - Marketed by NewEra Software
 - Read an IOCP into a Windows application and provided a GUI to view, manage and report on IOCP components.

Before we begin.... a Brief History lesson

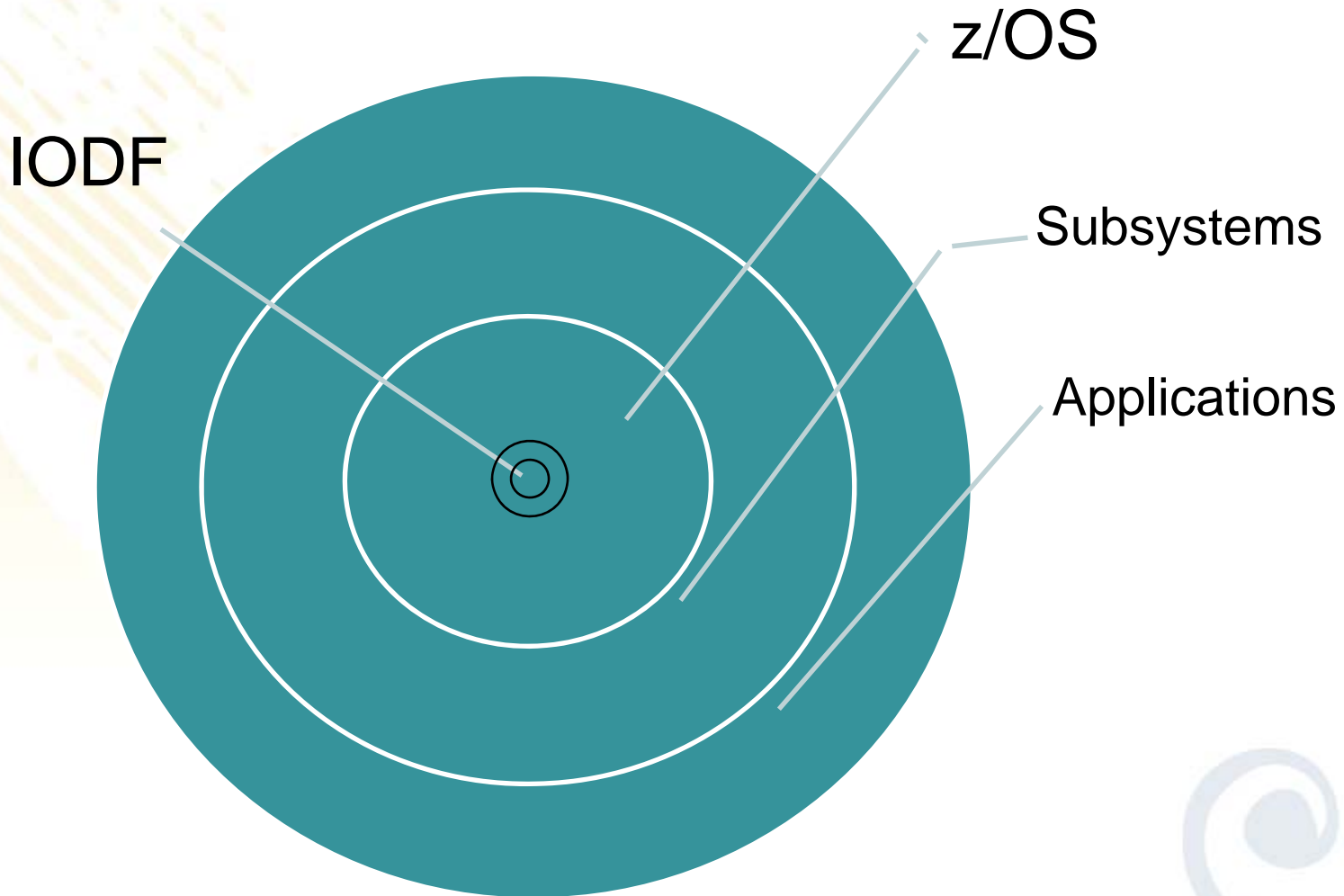


- All the rights to SHAMAN were sold to IBM
 - It became Hardware Configuration Manager for HCD
 - HCM for HCD

Topics in this Session

- Why do we need to provide Change reporting and Documentation for the IODF?
- What needs to change so that we can provide better reporting for the IODF?
- Where and How do I start to do a better job of understanding the IODF?
- What is being provided as tools to assist in this new approach to managing the IODF?

Why the IODF?



Why the IODF?



Applications

Subsystems

z/OS

Why the IODF?



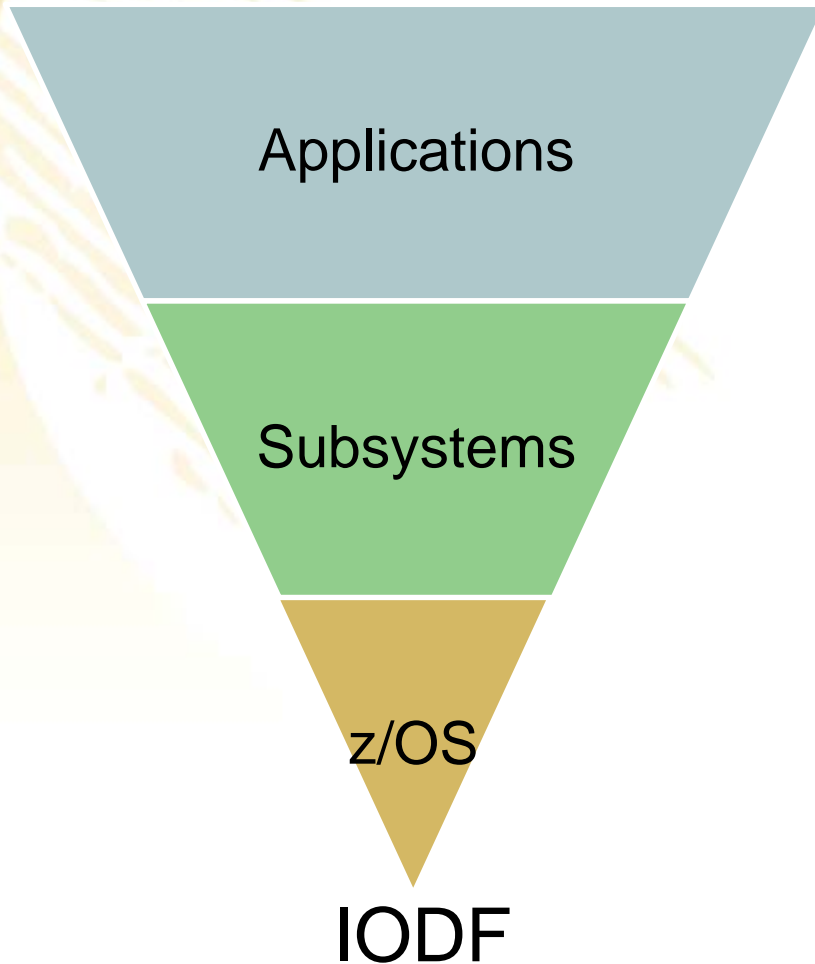
Applications

Subsystems

z/OS

IODF

Why the IODF ?



Why the IODF?

- IODF is managed differently than other z/OS functions
 - HCD interface is hard to use
 - Small number of staff make changes to IODF
 - Sharing of information is difficult using standard reports
- Auditors have little knowledge or access to HCD
- Change reporting is not transparent
- Management controls over IODF are less than any other functional area of z/OS and Applications.

Why the IODF?



Applications

Subsystems

z/OS

IODF

Where do your
controls and
Audits begin?

Why the IODF?

- Controls and reviews seldom include the IODF
 - Exposes organizations to risk
 - Incomplete reviews and compliance reports
 - Who signs off the report?
- The Attitude of “It works; leave it alone” puts too much at risk

What needs to Change regarding the IODF

- Manage the IODF as any other z/OS data source
 - Usable reporting
 - Access to data
 - Change detection and reporting
 - Available analysis tools
- Integrate status reporting with other critical z/OS elements
- Ensure accuracy in content

Where do we start?

- Start with your IODF
 - Extract the IOCP, OSCP and SWCP elements
 - Create a structured view of the elements.
 - Understand the structure at the IOCP, CSS and LPAR levels
- Blueprint that structure for change detection and reporting
- Inspect the structure for risks and possible points of failure
- Provide analysis tools for easy investigative access to the data

What we at NewEra Software have been providing



- An approach to help you 'Get Started'
- A no cost IODF Check up
- Use of our Software, The IODF Explorer.
- An open mind and a responsive development plan

What we at NewEra Software have been providing



- **Start with your IODF**
 - **Extract the IOCP, OSCP and SWCP elements**
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What we at NewEra Software have been providing



```
----- Image SENTRY - IODF Explorer 3.0 - Datasets & Extracts -----
Option ==>

Sx  --  -----IODF Datasets-----  -----IODF Extracts-----  --Date--
--  -----MVSCP---  --SWITCH---  ---IOCDS---  --Last--
--  -----OSCPs---  ---SWCPs---  ---IOCPS---  Extracts
--  Cm  -----Cm -confid-  Cm --swid--  Cm -procid-  -----

W1  ..  SYS2.IODF33_____  ..  BUDOS___  ..  _____  ..  A_____  11/12/08
W2  ..  _____  ..  _____  ..  _____  ..  _____  _OPEN_
W3  ..  _____  ..  _____  ..  _____  ..  _____  _OPEN_
W4  ..  _____  ..  _____  ..  _____  ..  _____  _OPEN_
W5  ..  _____  ..  _____  ..  _____  ..  _____  _OPEN_

--  -----
W6  ..  SYS2.IODF07_____  ..  BUDOS___  ..  _____  ..  A#0_____  11/13/08
W7  ..  _____  ..  _____  ..  _____  ..  _____  _OPEN_
W8  ..  _____  ..  _____  ..  _____  ..  _____  _OPEN_
W9  ..  _____  ..  _____  ..  _____  ..  _____  _OPEN_
W0  ..  _____  ..  _____  ..  _____  ..  _____  _OPEN_

--  ..  Extracting IODF Datasets  ..  Email OK  ..  Using an IODF Dataset Extract
```

What we at NewEra Software have been providing



```
----- Image SENTRY - IODF Explorer 3.0 - Target Selection - IOCP -----  
Option ==>
```

```
----- SYS2.IODF33 - 2008-09-29 13:45:36 -----  
Cm ----- Cm ----- Cm ----- Cm ----- Cm ----- Cm -----  
.. A#0_____ .. A#1_____ .. A#2_____ .. A#3_____ .. B#0_____ .. B#1_____  
.. B#2_____ .. B#3_____ .. X#0_____ .. X#1_____ .. X#2_____ .. X#3_____  
.. _____ .. _____ .. _____ .. _____ .. _____ .. _____  
.. _____ .. _____ .. _____ .. _____ .. _____ .. _____  
.. _____ .. _____ .. _____ .. _____ .. _____ .. _____  
.. _____ .. _____ .. _____ .. _____ .. _____ .. _____  
.. _____ .. _____ .. _____ .. _____ .. _____ .. _____  
.. _____ .. _____ .. _____ .. _____ .. _____ .. _____
```

Working directly with Targets found in an IODF Element

What we at NewEra Software have been providing



```
----- Image SENTRY - IODF Explorer 3.0 - Partition Selection -----
Option ==>
```

```
|-Procid-| ----- IODF33:08-09-29 <-> IODF33:08-09-29 ----- |-Procid-|
```

```
Cm C---Adds---N Cm C---Lpar---N Cm C---Lpar---N Cm C---Lpar---N Cm C---Adds---N
.. _____ .. _____ .. _____ .. _____ .. _____
.. _____ .. _____ .. _____ .. _____ .. _____
.. _____ .. _____ .. _____ .. _____ .. _____
.. C A          N Cm C---Lpar---N Cm C---Cmms---N Cm C---Lpar---N .. C A          N
.. 0 A0A      A .. 0 A0B      B .. 0 A0C      C .. 0 A0D      D .. 0 A0E      E
.. 0 A0F      F .. 0 A01      1 .. 0 A02      2 .. 0 A03      3 .. 0 A04      4
.. 0 A05      5 .. 0 A06      6 .. 0 A07      7 .. 0 A08      8 .. 0 A09      9
.. 1 A1A      A .. 1 A1B      B .. 1 A1C      C .. 1 A1D      D .. 1 A1E      E
.. 1 A1F      F .. 1 A11      1 .. 1 A12      2 .. 1 A13      3 .. 1 A14      4
.. 1 A15      5 .. 1 A16      6 .. 1 A17      7 .. 1 A18      8 .. 1 A19      9
.. 2 A2A      A .. 2 A2B      B .. 2 A2C      C .. 2 A2D      D .. 2 A2E      E
Cm C---Dels---N Cm C---Lpar---N Cm C---Lpar---N Cm C---Lpar---N Cm C---Dels---N
.. _____ .. _____ .. _____ .. _____ .. _____
.. _____ .. _____ .. _____ .. _____ .. _____
.. _____ .. _____ .. _____ .. _____ .. _____
```

Working directly with z/OS Partition Targets

Email NO

What we at NewEra Software have been providing



```
----- Image SENTRY - IODF Explorer 3.0 - EDS00001 -----
Option ==>

-----OSCP Targets----- | -----SWCP Targets----- | -----IOCP Targets-----
.. SYS0.IODF43             | .. SYS0.IODF43             | .. SYS0.IODF43
-----Wks/01/02/09----- | -----Wks/01/02/09----- | -----Wks/01/02/09-----
.. D1AC1___ .. D1GMC___   | .. 07 .. ___ .. ___ .. | .. CPU3#0___ .. ___
.. D1AE1___ .. D1GMK___   | .. 08 .. ___ .. ___ .. | .. CPU3#1___ .. ___
.. D1AE2___ .. D1MCA___   | .. 6C .. ___ .. ___ .. | .. CPU4#0___ .. ___
.. D1AH2___ .. D1MCB___   | .. 6D .. ___ .. ___ .. | .. CPU4#1___ .. ___
.. D1AH3___ .. D1MCI___   | .. ___ .. ___ .. ___ .. | .. CPU4#2___ .. ___
.. D1AH6___ .. D1MVL___   | .. ___ .. ___ .. ___ .. | .. CPU4#3___ .. ___
.. D1AY1___ .. D1NM1___   | .. ___ .. ___ .. ___ .. | .. ___ .. ___
.. D1EDL___ .. D1OP1___   | .. ___ .. ___ .. ___ .. | .. ___ .. ___
.. D1EDP___ .. D1PAM___   | .. ___ .. ___ .. ___ .. | .. ___ .. ___
.. D1EDS___ .. D1PAN___   | .. ___ .. ___ .. ___ .. | .. ___ .. ___
.. D1EDU___ .. D1SKJ___   | .. ___ .. ___ .. ___ .. | .. ___ .. ___
.. D1ED1___ .. D1SKU___   | .. ___ .. ___ .. ___ .. | .. ___ .. ___
.. D1ED3___ .. D1SP1___   | .. ___ .. ___ .. ___ .. | .. ___ .. ___
.. D1ED4___ .. D1SP9___   | .. ___ .. ___ .. ___ .. | .. ___ .. ___
.. D1GMA___ .. D1ST8___   | .. ___ .. ___ .. ___ .. | .. ___ .. ___
.. D1GMB___ .. PRD1___    | .. ___ .. ___ .. ___ .. | .. ___ .. ___
R=Report - W=Wsheet - I=Inspect - S=Search - T=EDTab - C=Compare - Email NO
```

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What we at NewEra Software have been providing

```
+-----+  
|  
| ...1 CNTLUNIT STATEMENT HAS BEEN ADDED.  
|  
+-----+  
| CTLU | TYPE | AD | SHR | PROTOCL | SERLNUM | CTLUNIT DESCRIPTION |  
+-----+  
> 1A00 > 3590 | 0 | - | -- | ----- | 'STK_ATL#31_-_E43' <  
| |-----css/path/link-----+-----swport/unitadd-----+  
| | PATH=CSS(0)=97 | | PORT=--- |  
| | LINK=CSS(0)=F5 | | ADDR=(00,16) |  
+-----+  
+-----+
```

What we at NewEra Software have been providing



```
----- Image Sentry - OSCP Report Library - EDS00001/OSCP/D1AC1 -----  
Option ==>
```

```
      Status Last Update:01/21/09 and Time:14:41:53 - Update User:GBAGS2
```

```
Cm -Member- -----Status Summaries--- Cm -Member- -----Full Reports-----  
.. $OSCP SUM OSCP z/OS Software_____ .. $OSCP MAP OSCP z/OS Software_____  
.. $NIP SUM NIP Consoles_____ .. $NIP MAP NIP Consoles_____  
.. $ETAB SUM Eligible Devices_____ .. $ETAB MAP Eligible Devices_____  
.. $CTL SUM Control Units_____ .. $CTL MAP Control Units_____  
.. $OSDV SUM I/O Devices_____ .. $OSDV MAP I/O Devices_____  
.. _____ .. _____  
.. _____ .. _____  
.. _____ .. _____  
.. _____ .. _____  
.. _____ .. _____  
.. _____ .. _____  
.. _____ .. _____  
.. _____ .. _____  
Cm -Member- -----Change Summaries--- Cm -Member- -----Change Details-----  
.. $OSCN SUM Last Change Report_____ .. $OSCN MAP Last Change Report_____  
.. _____ .. _____  
.. _____ .. _____
```

```
.. Update OSCP Reports
```

```
EMAIL NO
```

What we at NewEra Software have been providing

IODevices Status at System Initialization:

+--Status At IPL -----											
Online				Offline				UnDeclared			
3270 -----+											
				0000	0200	0700	0701				
				0702	0703	0704	0705				
				0706	0707	0708	0709				
				070A	070B	070C	070D				
				070E	070F	0900					
3590 -----+											
0400	0401	0402	0403	0430	0431	0432	0433				
				04B0	04B2	04C0	04C1				
				04C2	04C3	9200	9300				

What we at NewEra Software have been providing



```
----- Image Sentry - IOCP Report Library - EDS00001/IOCP/CPU3#0 -----  
Option ==>
```

```
      Status Last Update:01/21/09 and Time:14:59:13 - Update User:GBAGS2
```

```
Cm -Member- -----Status Summaries--- Cm -Member- -----Full Reports-----  
.. $IOCPSUM IOCP z/OS Hardware_____ .. $IOCPMAP IOCP z/OS Hardware_____  
.. $LPARSUM Partitions_____ .. $LPARMAP Partitions_____  
.. $CHIPSUM Channel Paths_____ .. $CHIPMAP Channel Paths_____  
.. $CTLUSUM Control Units_____ .. $CTLUMAP Control Units_____  
.. $IODVSUM I/O Devices_____ .. $IODVMAP I/O Devices_____  
.. $SWCPSUM Ficon/Escon_____ .. $SWCPMAP Switch Ports_____  
.. _____ .. $KEYEXPS Keyword Exceptions_____  
.. _____  
.. _____  
.. _____  
.. _____  
.. _____  
Cm -Member- -----Change Summaries--- Cm -Member- -----Change Details-----  
.. $IOCNSUM Last Change Report_____ .. $IOCNMAP Last Change Report_____  
.. _____  
.. _____
```

```
.. Update IOCP Reports
```

```
EMAIL NO
```

What we at NewEra Software have been providing



LPAR Summary Report

NUMB	LPAR NAME	CSS(x)	USED	LPAR DESCRIPTION
4 >	D1AE1	CSS(0)	OS	PRODPLEX CSS CPU3
3 >	D1AE2	CSS(0)	OS	-----
E >	D1MVL	CSS(0)	OS	-----
6 >	D1SP9	CSS(0)	OS	-----
9 >	D1ST8	CSS(0)	OS	-----
F >	D1XB3	CSS(0)	CF	-----
1 >	PRD1	CSS(0)	OS	-----
7 >	ST01	CSS(0)	OS	-----
8 >	ST02	CSS(0)	OS	-----
A >	SYHM	CSS(0)	OS	-----
B >	SYIM	CSS(0)	OS	-----
C >	SYJM	CSS(0)	OS	-----
D >	SYKM	CSS(0)	OS	-----
5 >	S001	CSS(0)	OS	-----
2 >	TST1	CSS(0)	OS	-----

What we at NewEra Software have been providing



LPAR Detail Map

```
+-----+-----+-----+-----+-----+
| NUMB | LPAR NAME | CSS(x) | USED |          LPAR DESCRIPTION          |
+-----+-----+-----+-----+-----+
>  4 >  D1AE1 | CSS(0) | OS | PRODPLEX CSS CPU3 |
|      +-----list,chpid,css,pchid,chpid_type,swid-----+
|
|      LPAR Pathways Listed:2
|
|      A,CC,0,1CC,CNC,08   A,EC,0,1FC,CNC,07
|
+-----+-----+-----+-----+-----+
| NUMB | LPAR NAME | CSS(x) | USED |          LPAR DESCRIPTION          |
+-----+-----+-----+-----+-----+
>  3 >  D1AE2 | CSS(0) | OS |          -----          |
|      +-----list,chpid,css,pchid,chpid_type,swid-----+
|
|      LPAR Pathways Listed:33
|
|      A,68,0,270,FCV,0B   A,69,0,271,FCV,0B   A,82,0,142,CNC,01
|
```

What we at NewEra Software have been providing



+---Physical to Logical CHPID Mapping-----

744 Channel Paths Found - Sorted by NBR

pid.id.nbr pid.id.nbr pid.id.nbr pid.id.nbr pid.id.nbr

CHPID Type/nbr:FC/40

-----FICON-----

123.A3.26	3D0.7C.26	3E0.7B.26	3D1.53.26	122.FC.26
173.FB.26	102.7A.25	311.79.25	1D1.F8.25	172.A2.24
340.7D.24	3C0.FD.24	152.FA.24	331.78.23	1F1.F9.23
3E1.52.22	150.F0.17	100.70.17	170.F1.16	1A0.71.16
101.75.14	310.74.14	330.73.14	1C0.72.14	151.F5.14
1F0.F4.14	1D0.F3.14	120.F2.14	361.55.10	341.54.10
3B1.A5.8	3C1.A4.8	153.A1.7	103.51.7	1C1.77.6
1A1.76.6	121.F7.6	171.F6.6	3B0.A0.5	360.50.5

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What we at NewEra Software have been providing



UCB NOT IN AVAILABLE UCW POOL			UCW NOT IN AVAILABLE UCB POOL		
-----			-----		
Device has no logical paths			Device has no connections		
REQUESTS	GRANTED	DENIED	REQUESTS	GRANTED	DENIED
17046	16950	96	17668	16950	718
OSCP STATEMENT ORPHANS:7			IOCP STATEMENT ORPHANS:143		
-----unit,range,type-----			-----unit,range,type-----		
0010,016,3270	0210,016,3270		0492,016,3480	0700,001,3270	
6C20,016,FCTC	6C30,016,FCTC		0701,001,3270	0702,001,3270	
6C60,016,FCTC	E100,015,OSA		0703,001,3270	0704,001,3270	
E1FE,001,OSAD			0705,001,3270	0706,001,3270	
			0707,001,3270	0708,001,3270	
			0709,001,3270	070A,001,3270	

What we at NewEra Software have been providing



ESOTERIC	TOKS	VIOS	UCW REQUESTS	GRANTED	DENIED
As Defined	00	00	25008	25008	0
ATL1	--	----	4	4	0
None Denied					
ATL2	--	----	4	4	0
None Denied					
CART	--	----	30	30	0

What we at NewEra Software have been providing



31 IO Devices in 48 MACRO Statements have no matching Control Unit

```
0010 Z10ECC#0.1 IODDL 0010/000E 0010 015 OSA --- --- --- --- 000E 10 --- -
0010 Z10ECC#0.1 IODDL 0010/0015 0010 015 OSA --- --- --- --- 0015 10 --- -
0010 Z10ECC#0.1 IODDL 0010/1F00 0010 015 OSA --- --- --- --- 1F00 10 --- -
001F Z10ECC#0.1 IODDL 001F/000E 001F 001 OSAD --- --- --- --- 000E FE --- -
001F Z10ECC#0.1 IODDL 001F/0015 001F 001 OSAD --- --- --- --- 0015 FE --- -
001F Z10ECC#0.1 IODDL 001F/1F00 001F 001 OSAD --- --- --- --- 1F00 FE --- -
0500 Z10ECC#0.1 IODDL 0500/002B 0500 120 3270 X --- --- --- 002B 00 --- -
0580 Z10ECC#0.1 IODDL 0580/002C 0580 120 3270 X --- --- --- 002C 00 --- -
0100 Z10ECC#0.1 IODDL 0100/0100 0100 060 OSA --- --- --- --- 0100 00 --- -
013C Z10ECC#0.1 IODDL 013C/0100 013C 001 OSAD --- --- --- --- 0100 FE --- -
0340 Z10ECC#0.1 IODDL 0340/0301 0340 016 3270 X --- --- --- 0301 40 --- Y
0340 Z10ECC#0.1 IODDL 0340/2E70 0340 016 3270 X --- --- --- 2E70 00 --- -
0300 Z10ECC#0.1 IODDL 0300/0302 0300 016 3270 X --- --- --- 0302 00 --- Y
0300 Z10ECC#0.1 IODDL 0300/0307 0300 016 3270 X --- --- --- 0307 00 --- Y
0300 Z10ECC#0.1 IODDL 0300/0320 0300 016 3270 X --- --- --- 0320 00 --- -
0300 Z10ECC#0.1 IODDL 0300/0321 0300 016 3270 X --- --- --- 0321 00 --- -
0300 Z10ECC#0.1 IODDL 0300/0330 0300 016 3270 X --- --- --- 0330 00 --- -
0300 Z10ECC#0.1 IODDL 0300/67B0 0300 016 3279 2 --- --- --- 67B0 00 --- Y
0300 Z10ECC#0.1 IODDL 0300/7060 0300 016 3279 2 --- --- --- 7060 00 --- Y
```

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What we at NewEra Software have been providing



- Compare
 - An IODF to another IODF
 - Element Compare
 - OSCP <> OSCP
 - IOCP <> IOCP
 - CSS <> CSS
 - LPAR <> LPAR

All Compares available within an IODF or across multiply IODF's

What we at NewEra Software have been providing



	CONTROL UNITS					I/O DEVICES				
IOCP	NHQ9CF3E	COMMON	GRL9CEFE	NHQ9CF3E	COMMON	GRL9CEFE				
SUMMARY	42	78	46	66	161	177				
	Unique:NHQ9CF3E					Unique:NHQ9CF3E				
	0000	0200	04B0	04C0	6230	0000	0010	0020	0030	0040
	6240	6260	62C0	6320	6340	0050	0060	0200	0210	0220
	6360	63C0	6420	6430	6620	0230	0240	0250	0260	04B0
	6630	66C0	6C20	6C30	6C60	04B2	04C0	04C1	04C2	04C3
	D420	D430	E000	E100	E200	6230	6240	6260	62C0	6320
	E300	E500	E600	ED12	ED13	6340	6360	63C0	6420	6430
	ED66	ED67	EE00	F420	F430	6620	6630	66C0	6C20	6C30
	F450	F4A0	F540	F560	F5A0	6C60	D420	D430	E000	E0FE
	FA40	FA50				E100	E1FE	E200	E2FE	E300
						E3FE	E500	E5FE	E600	E6FE

What we at NewEra Software have been providing



- Searches
 - In an IODF
 - Element Search
 - OSCP
 - IOCP
 - CSS
 - LPAR

All Searches available within an IODF or across multiply IODF's

What we at NewEra Software have been providing



----- Image SENTRY - IODF Explorer 3.0 - AMFAM001/IOCP -----
 Option ==>

DEVU	CTLU	AD	NUM	DEVTYPE	MODEL	DEVICE DESCRIPTION
-----iocp_device_attributes-----				-----other_attributes-----		
STADET		SCHSET		SERIALNumb		
PCU		DYNAMIC		FEATURES		
LOCANY		NUMSECT		USERPARM		
VOLSER		PATH				
OFFLINE		OWNER				
ADAPTER		TCU				
TIMEOUT		SETADDR				
LPARS						
.. Reset the Criteria		.. Search CntlUnits			Email NO	

What we at NewEra Software have been providing



- Worksheets
 - Interactive displays of IODF details for all defined devices
 - Element Worksheets
 - OSCP
 - IOCP
 - CSS
 - LPAR

All worksheets provide for customized reports and Comma delimited file export.

What we at NewEra Software have been providing



```

----- IMAGE Sentry - IODF Explorer 3.0 --- Row 1 to 13 of 22
-Image FOCUS 0.3-                               Wks/12/02/08                -Logical View-
----- SYS1.IODF03 - 2008-12-02 14:10:21 - IOCP -----
Option ==>                                         Scroll ==> CSR
Row Select: Attributes Descriptions
----- To View a Configuration Select a Component Type -----
Partitions      Channel Paths      FiEskon Switches      Control Units      I/O Devices
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
----Targets---- -----Input-Output Devices Defined to Processor-----

-----
S Numb ProcId M Unit Rng -Type- Model Ctlu --Serial-- I -----Description-----
_ 0001 GRL9CE 1 0400 001 3590 ----- 0400 ----- - MANUAL_MAGSTAR_400_____
_ 0002 GRL9CE 1 0401 001 3590 ----- 0400 ----- - MANUAL_MAGSTAR_401_____
_ 0003 GRL9CE 1 0402 001 3590 ----- 0400 ----- - MANUAL_MAGSTAR_402_____
_ 0004 GRL9CE 1 0403 001 3590 ----- 0400 ----- - MANUAL_MAGSTAR_403_____
_ 0005 GRL9CE 1 0430 001 3590 ----- 0430 ----- - IBM_MAN_3590_430_____
_ 0006 GRL9CE 1 0431 001 3590 ----- 0430 ----- - IBM_MAN_3590_431_____
_ 0007 GRL9CE 1 0432 001 3590 ----- 0430 ----- - IBM_MAN_3590_432_____
_ 0008 GRL9CE 1 0433 001 3590 ----- 0430 ----- - IBM_MAN_3590_433_____
_ 0286 GRL9CE 1 9200 004 3590 ----- 9200 ----- - GRL_3592_____
_ 0287 GRL9CE 1 9300 004 3590 ----- 9300 ----- - NHQ_3592_____
_ 0353 NHQ9CF 2 0430 001 3590 ----- 0430 ----- - IBM_MAN_3590_430_____
_ 0354 NHQ9CF 2 0431 001 3590 ----- 0430 ----- - IBM_MAN_3590_431_____

```

its

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- Blueprint that structure for change detection and reporting
- Inspect the structure for risks and possible points of failure
- Provide analysis tools for easy investigation access to the data

A FREE OFFER from NewEra Software



Seven Steps to Demystifying Your IODF

1. Send an email to support@newera.com with your contact information and request for the IODF routine to run.
2. We will email you the routine to run.
3. Email your extracts to support@newera.com.
4. We will import your data into the IODF Explorer and generate reports to show you.
5. We will schedule a 45 minute webcast to show you the reports and interactive worksheets that can help you better understand your IODF.
6. A better understanding of your IODF can help you to make changes to Tune-Up your configuration.
7. NewEra Software guarantees to keep your information confidential.

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