

 #tpfsoftware

 **TPF Software**
zEnterprise Simplified

TPF Software's New Launch: Development & Analysis Tools for z/OS

Thiru Thirupuvanam
TPF Software Inc.

March 10th 9:30 am & March 13th 11 am



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in Anaheim

Agenda

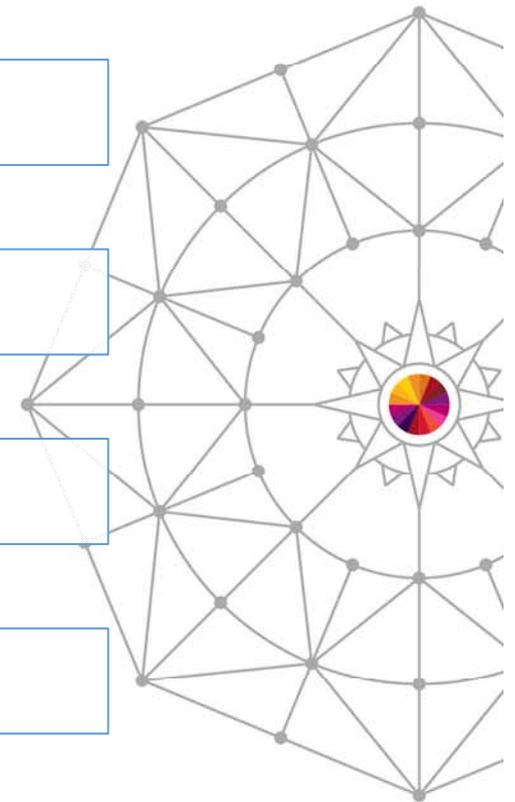
Introducing TPF Software

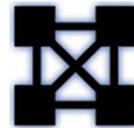
New z/OS Product Line

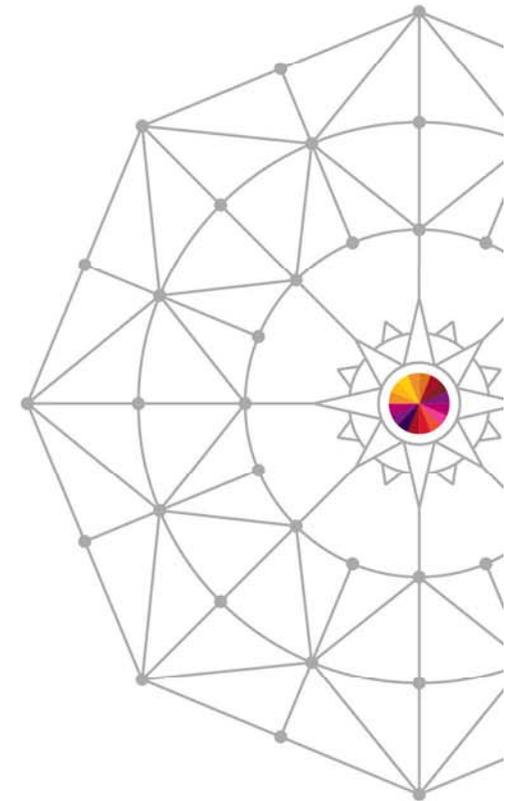
zSAT – System Analysis Tool

zDVI – Dump Viewer

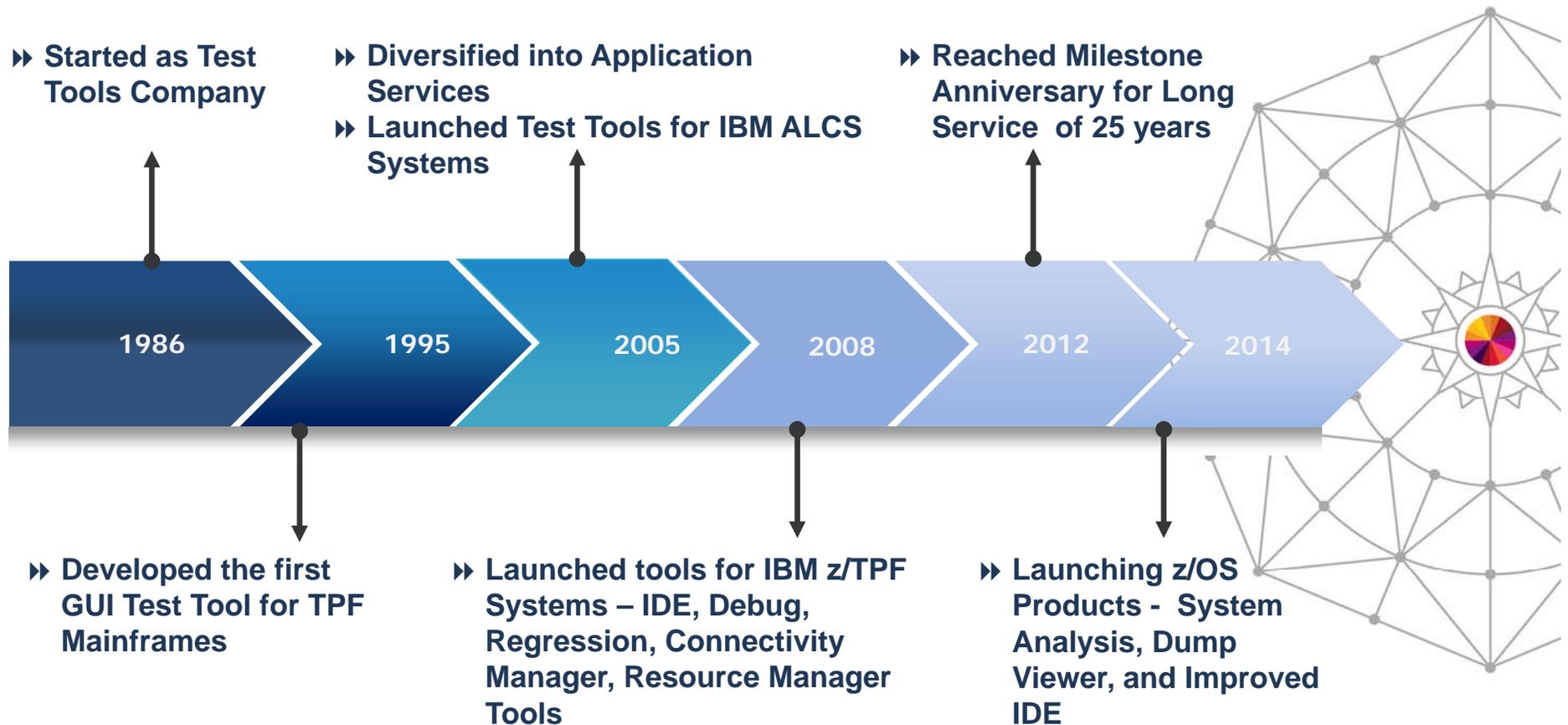
zIDE Pro – Development Environment



Introducing
 TPF Software



Company History

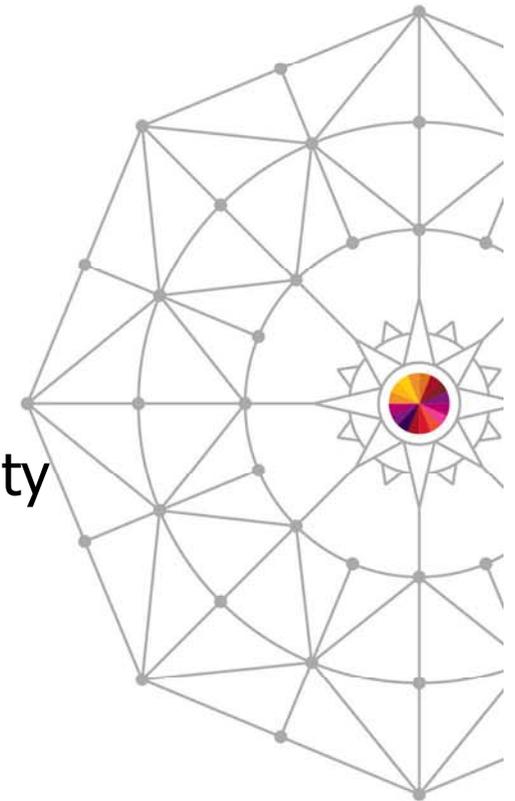


Product Portfolio

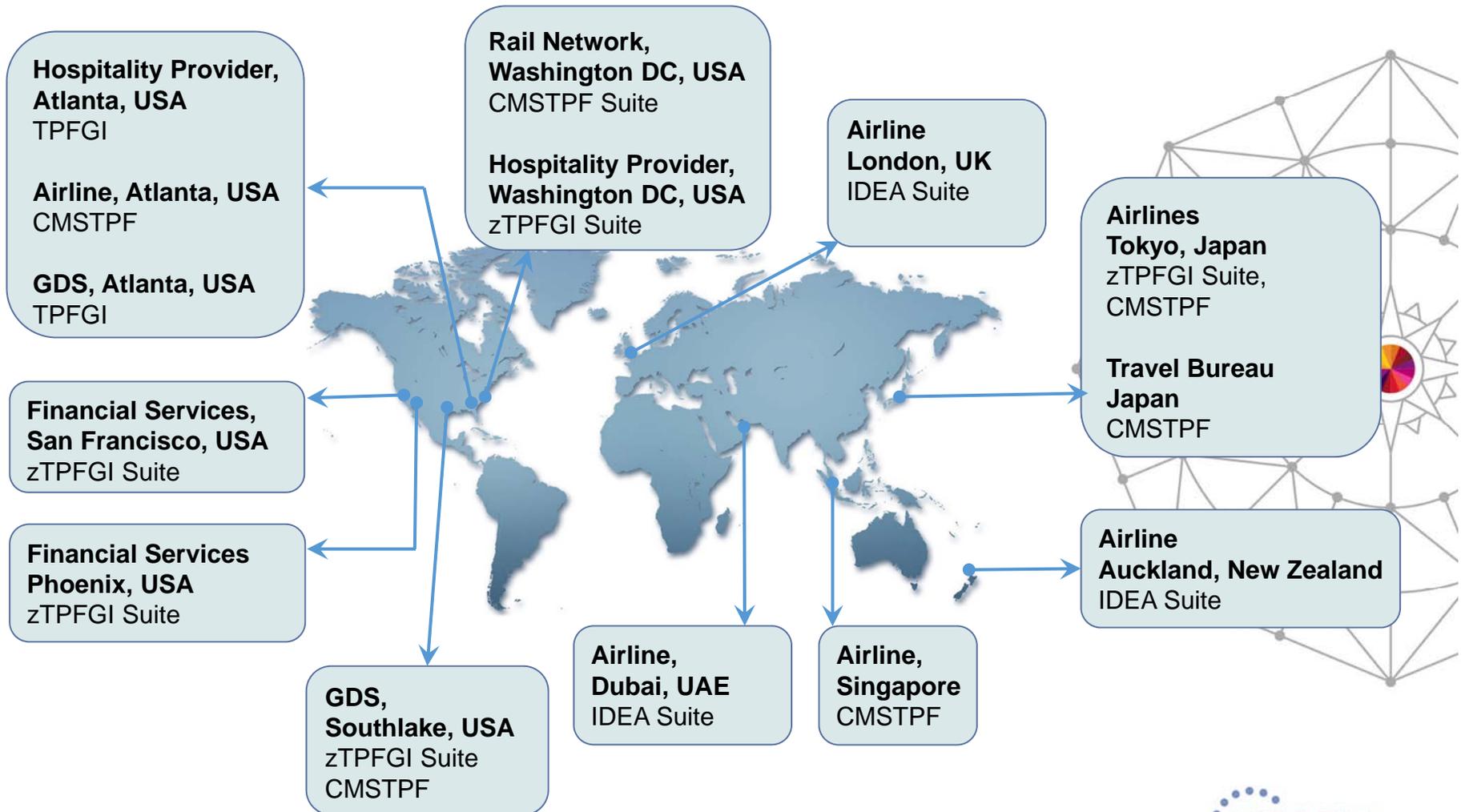
Product	Description
zTPFGI	A Comprehensive Test Management System for coding, testing, debugging, analyzing and fine-tuning your z/TPF applications
zIDE	An legacy–friendly development and management tool for z/OS applications
zTTFS	Provides Virtual Connectivity to remote resources for z/TPF
zRTF	Offers advanced Regression Testing abilities for z/TPF
zQDC	A quality assurance tool for managing and controlling quality assurance testing scripts
ALCS/GI	A debug tool for ALCS applications
DF Explorer	Easy-to-use graphical interface, which simplifies the online maintenance of the TPFDF files.
CMSTPF	An advanced testing system for TPF application programs
TPF/IDE	An integrated development environment for TPF applications
TPF/GI	A debug tool for TPF applications
CTFS	Provides virtual connectivity to remote resources for CMSTPF
RTF	Provides advanced regression testing for TPF

Industry Verticals

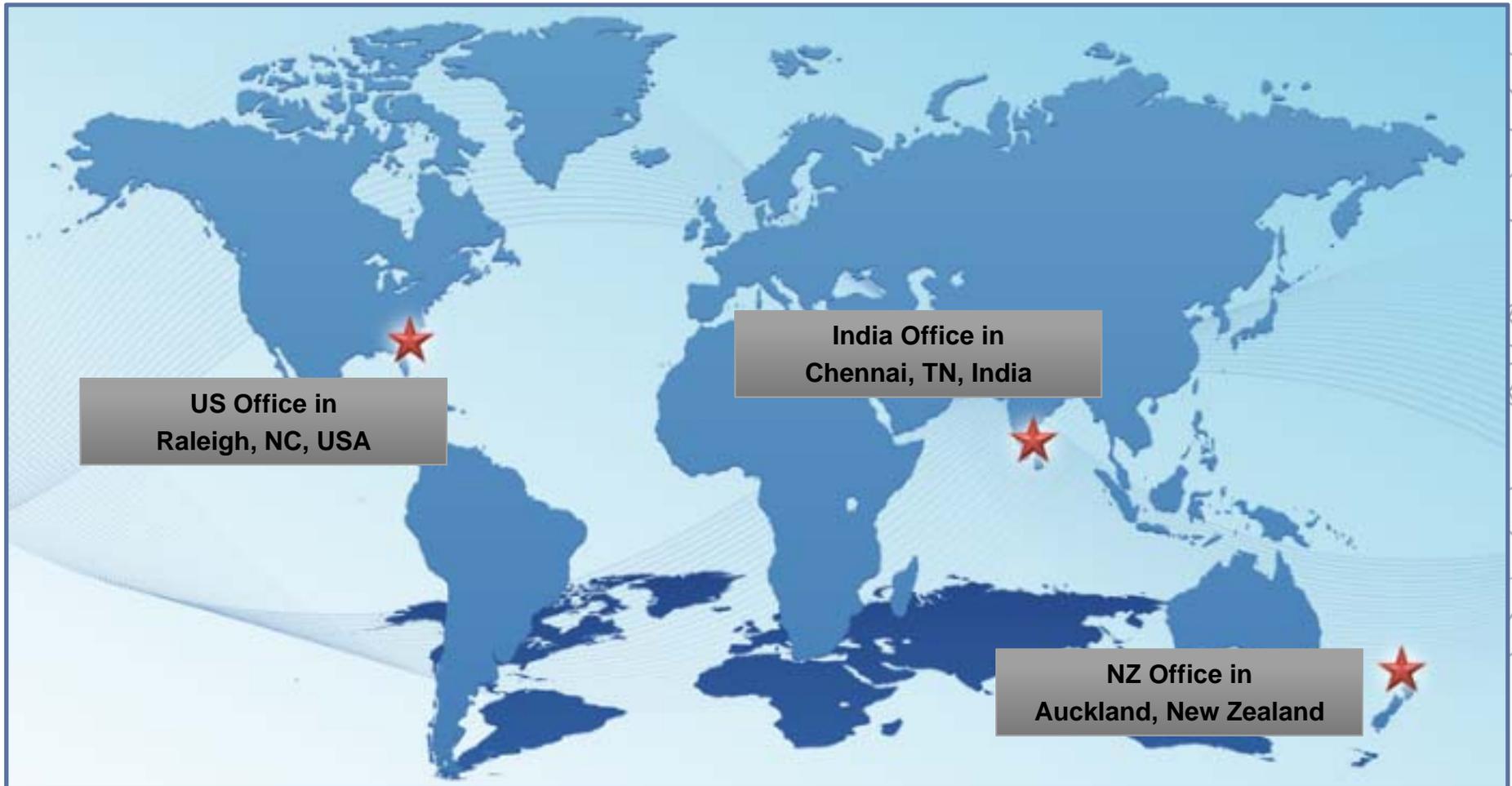
- **Industries:**
 - Travel (Airlines, GDS, and Railways)
 - Hospitality (Hotels)
 - Banking (Credit Card)
- **Our Business Solutions include:**
 - Comprehensive tools for zEnterprise community
 - Application Services
 - System Services
 - Migration
 - Training



Geographical Locations of Customers



Our Office Locations



 TPF Software

zEnterprise Simplified

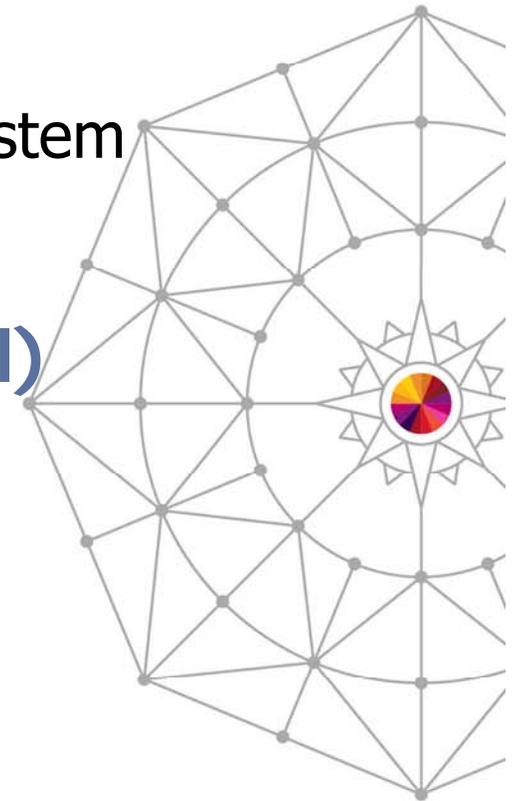
TPF Software Launches z/OS Product Line...



zSAT (System Analysis Tool)

- Intuitive, Easy to Use, Web-Based GUI
- Collect, Analyze, Compare & Report z/OS System Information
- Export/Print Reports
- System Health Indicators
- Dashboard for Critical Information
- Email Alerts

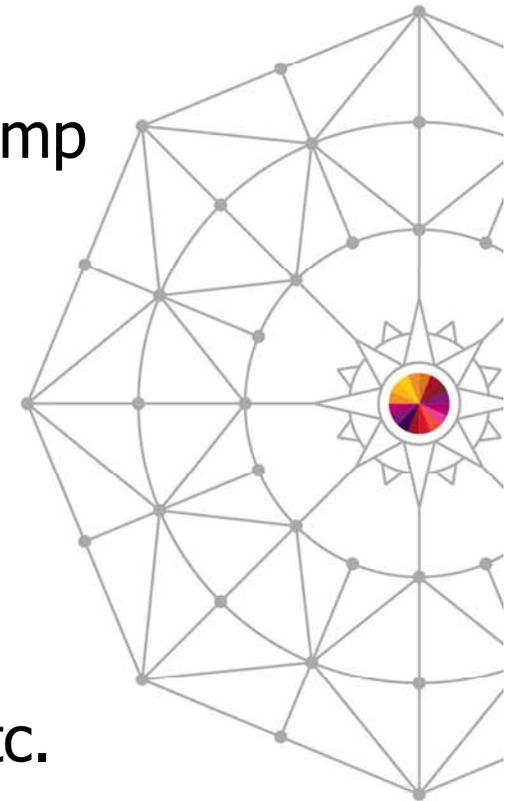
zSAT (System Analysis Tool)



zDVI (Dump Viewer)

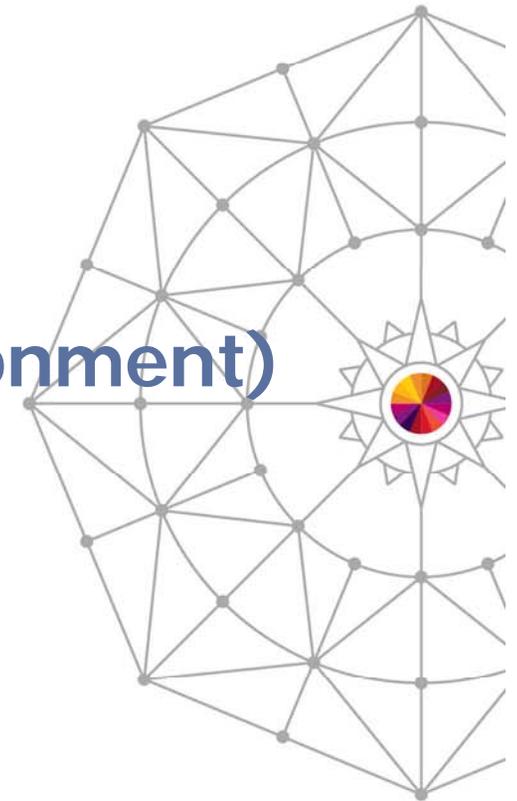
- Intuitive, Easy to Use, Web-Based GUI
- Collect, Analyze, Compare & Report z/OS Dump Information
- Great for the Novice
 - No need to know long commands
 - Quick access to dump details
- Great for the More Experienced
 - Built-in Command Interface
- Single-click access to control block listings etc.

zDVI (Dump Viewer)

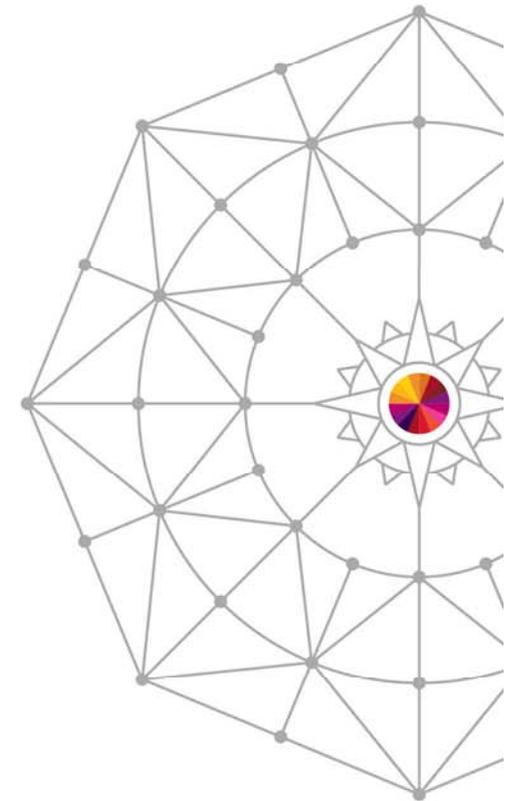
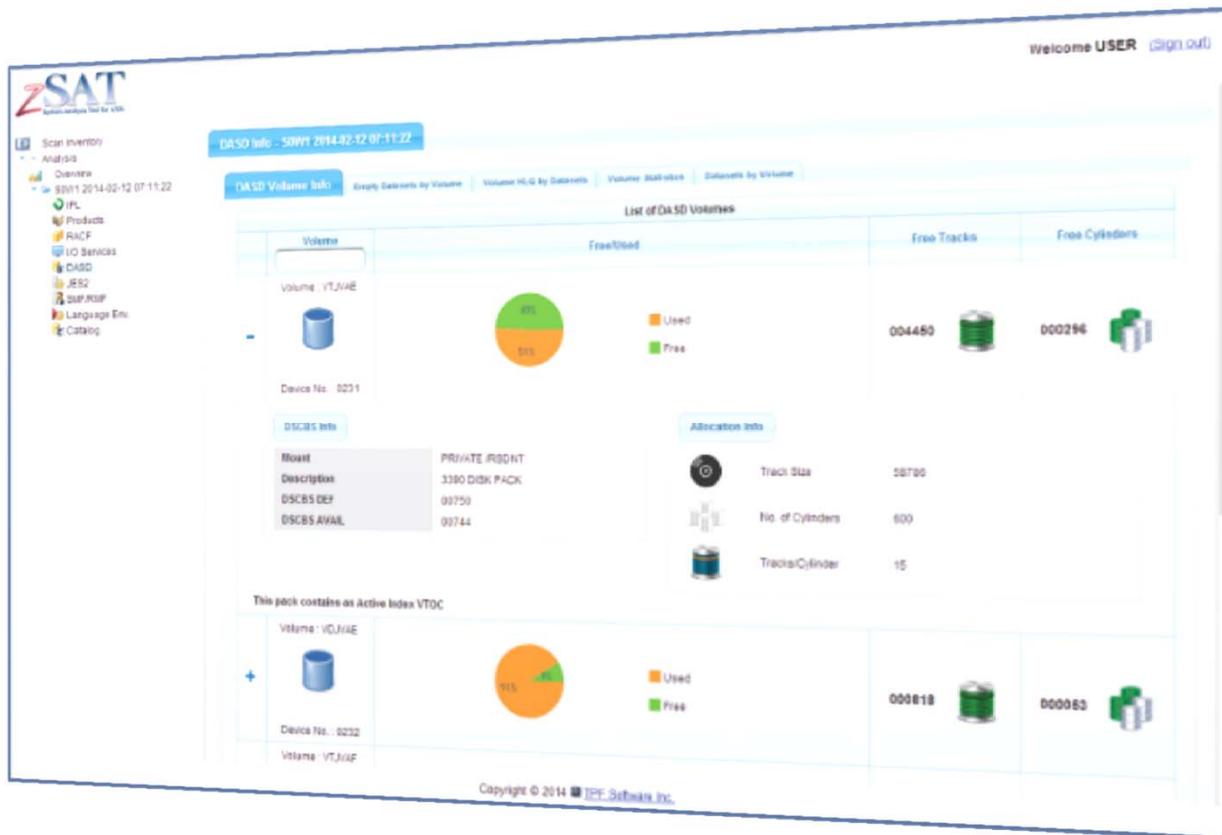


zIDE Pro (Development Environment)

- Intuitive, Easy to Use
- Legacy-Friendly
- GUI with Ribbon Menu
- Manage Files
 - Linux Files, PC Files, USS Files, JES Files
 - Move files across systems
- Edit, Compile/Build & Load to System



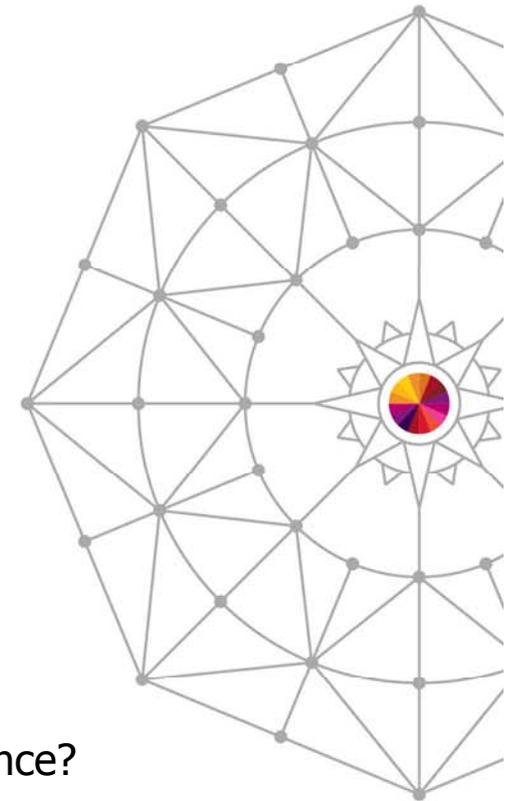
zSAT Overview (System Analysis Tool for z/OS)



System Analysis: The Challenges

- Finding the basic system information is like a maze
 - Device Channels installed and online
 - System Information (Model, Processor, Memory, CPU capacity)
 - System parameters during IPL
 - Parameter Configuration information
 - List of Empty datasets
 - How can I compare the past and present system states or checkpoints?
 - How do I save my analysis time?
 - How many DASDs are online? DASD's most used/least used
 - When was the last IPL done?
 - Where do backups of RACF Profiles reside?
 - How do I get automated email alerts for system issues in advance?
 - How do I generate audit reports?

And so on..



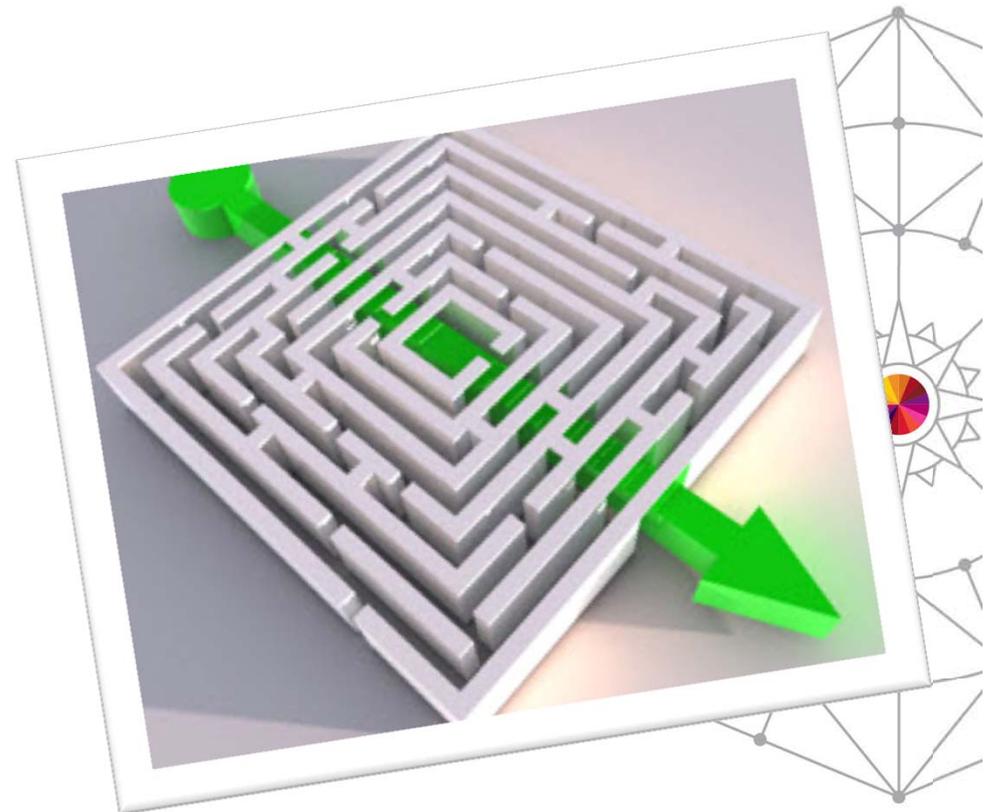
System Analysis: The Challenges

- Retrieving and logging system information is time consuming
- Using the available information to make better decisions is not easy
- Comparing system information and generating reports from different logs takes a long time



The Solution: zSAT

- Point-in-time captures
- Provides easy accessibility to critical areas of the z/OS system
- Simplifies interpretation of complex z/OS control blocks and data areas
- Caters for various zEnterprise Professionals z/OS Programmers, Managers, Auditors and Operators



The Solution: zSAT

- The **D M=CPU** command displays information about each processor.

```

D M=CPU
IEE174I 10.15.48 DISPLAY M 307
PROCESSOR STATUS

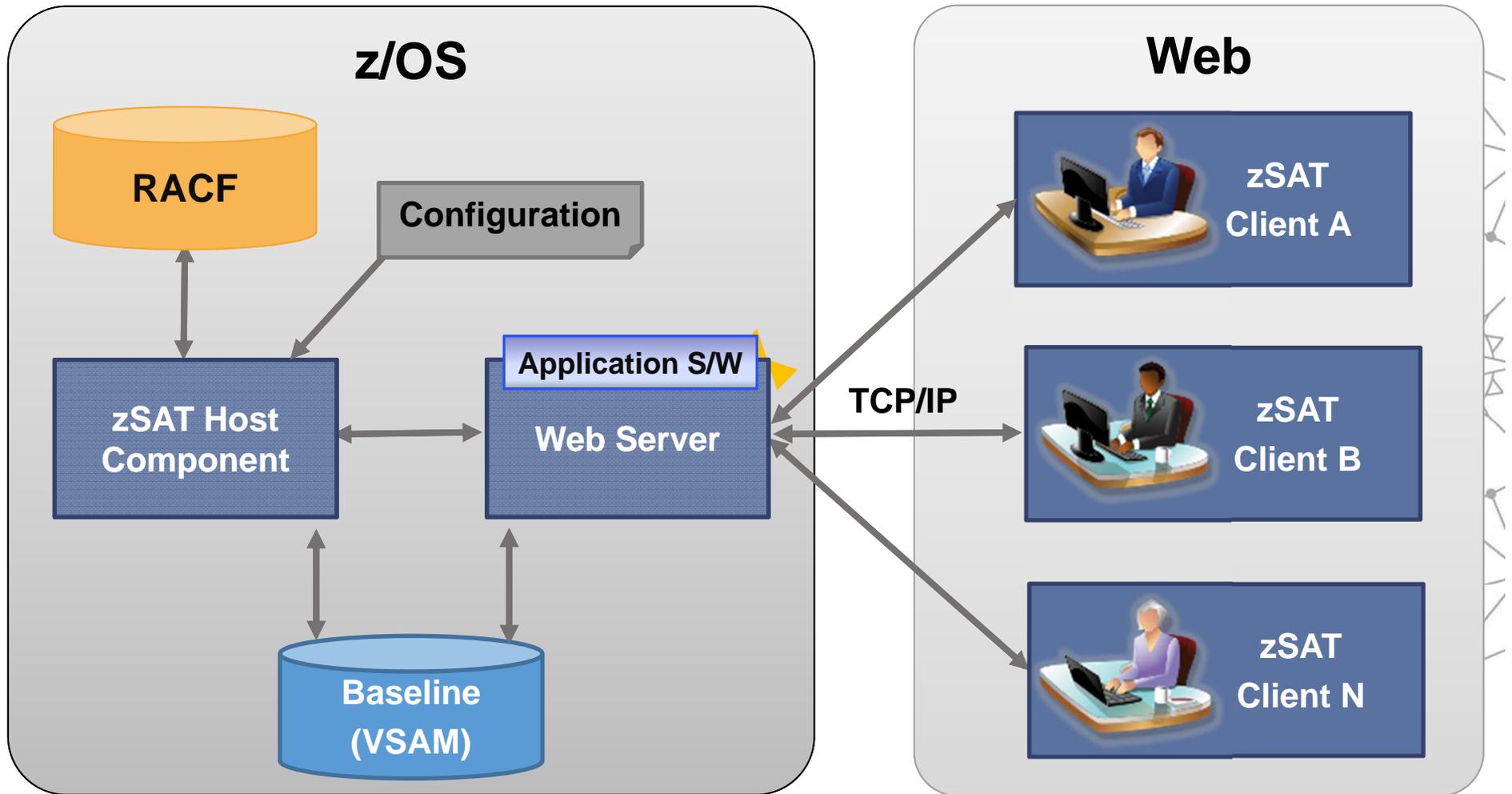
ID CPU          SERIAL
00 +           016B152817

CPC ND = 002817.M49.IBM.02.00000000C6B15
CPC SI = 2817.730.IBM.02.000000000000C6B15
      Model: M49
CPC ID = 00
    
```

Processor Info	
CPC SI:	zEnterprise 196
Model:	M49
CPU Id:	C6B15
Type:	CP
Processor:	0001
Memory:	02048GB
Operator Flag:	M
Nucleus Id:	1

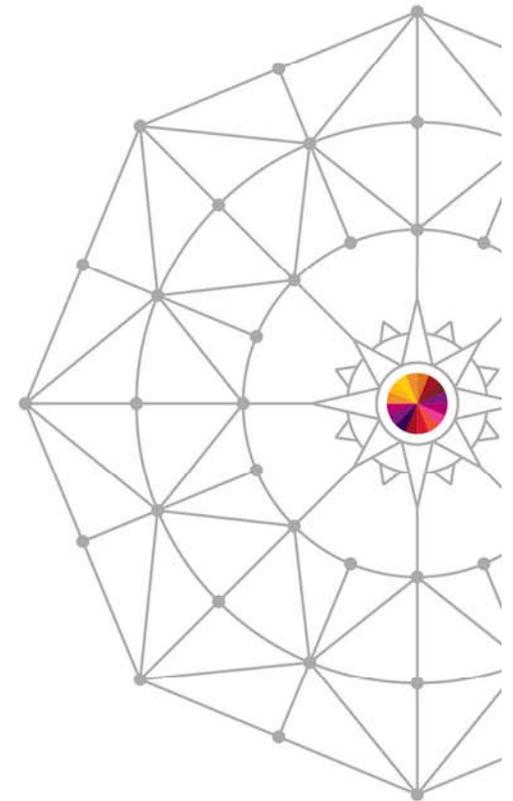
- Hidden in this output is the model number: in this case 2817.730 (z196).

zSAT Architecture



zSAT Architecture

- Uses a 3-tier Architecture Model, and comprises of the following components.
 - **Host** – zSAT’s nucleus. Includes supporting services to collect system data based on user configurations.
 - **Web Server** – Handles information requests and presents data graphically.
 - **Client** – No Client need be installed. Compatible with any web browser on any smart device.
- RACF used for all security



Graphical User Interface

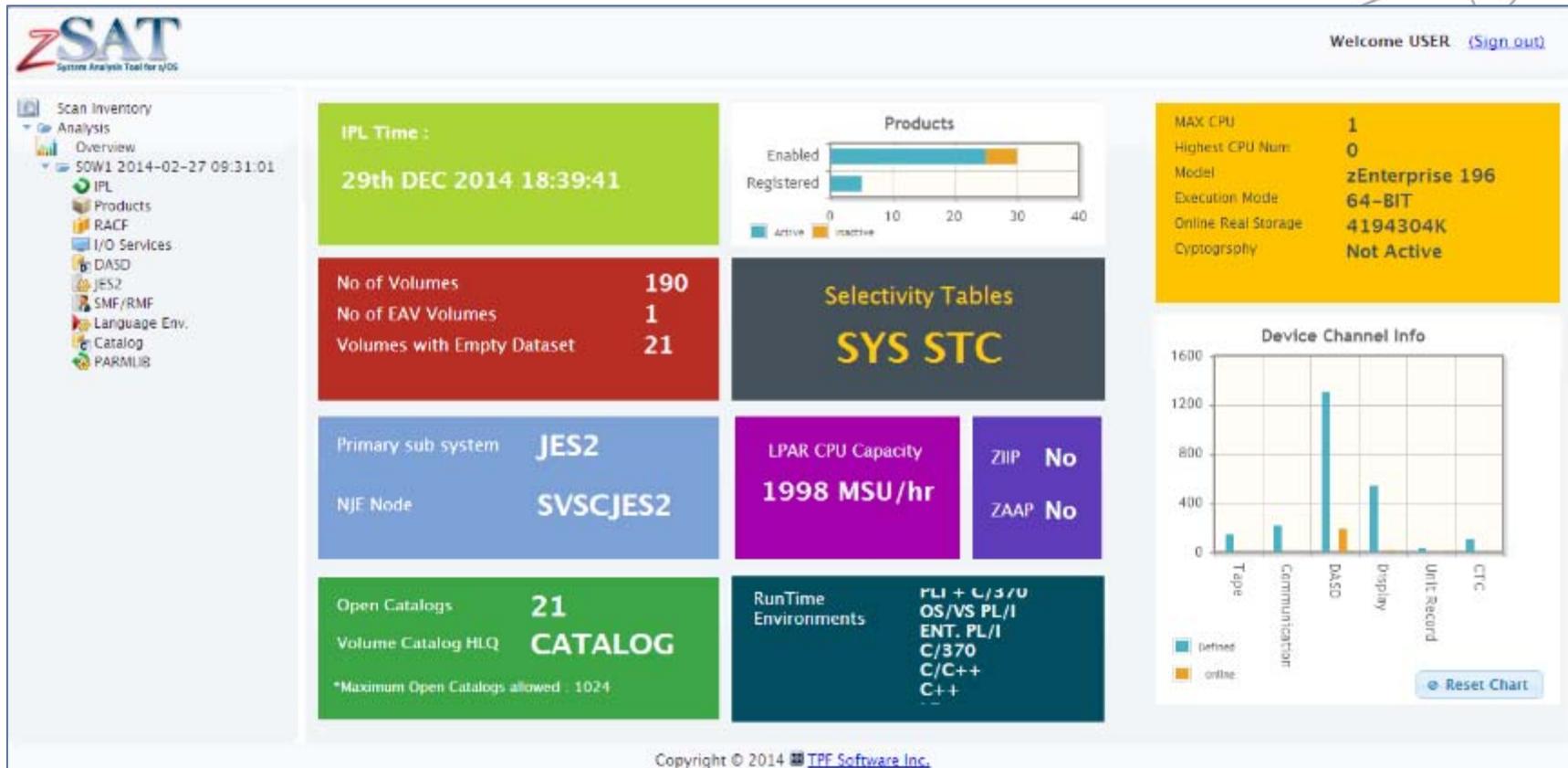
- Intuitive and easy-to-use GUI system analysis tool for zEnterprise professionals

The screenshot displays the zSAT System Analysis Tool for zOS GUI. The interface includes a sidebar with a scan inventory tree, a central 'System Scan Information' section with a calendar for February 2014, and a 'List of scans for the system : SOW1' table. The table lists scan dates, start/end times, elapsed times, scanned entities, and record counts. A legend at the bottom identifies various system components like IPL, Products, RACF, etc.

Scan Date	Start Time	End Time	Elapsed Time	Scanned Entities *	No of Record(s)
2014-02-25	00:10:16	00:13:25	00:03:09	IPL, Products, RACF, I/O Services, DASD, JLS2, SMF/RMF, Language Env., Catalog, PARMLIB	28443
2014-02-25	01:13:55	01:17:01	00:03:06	IPL, Products, RACF, I/O Services, DASD, JLS2, SMF/RMF, Language Env., Catalog, PARMLIB	25767
2014-02-25	02:17:31	02:20:38	00:03:07	IPL, Products, RACF, I/O Services, DASD, JLS2, SMF/RMF, Language Env., Catalog, PARMLIB	25924
2014-02-25	03:21:06	03:24:17	00:03:09	IPL, Products, RACF, I/O Services, DASD, JLS2, SMF/RMF, Language Env., Catalog, PARMLIB	26076
2014-02-25	04:12:47	04:15:51	00:03:04	IPL, Products, RACF, I/O Services, DASD, JLS2, SMF/RMF, Language Env., Catalog, PARMLIB	26198

Dashboard

- Dashboard displays critical information

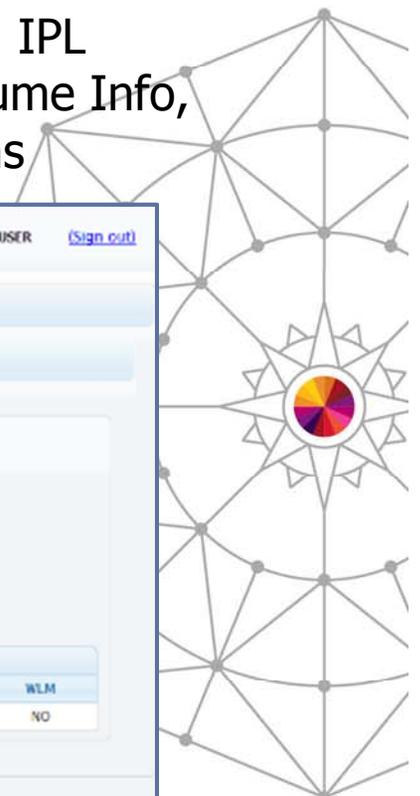


System Information Collection

- Facilitates z/OS System information collection e.g. RACF Details, IPL Parameters, PARMLIB Details, JES2/3, Configuration, DASD Volume Info, CATALOG View, Language Environment, SMF/RMF configurations

The screenshot shows the zSAT web interface. On the left is a navigation menu with items like 'IPL', 'Products', 'RACF', 'I/O Services', 'DASD', 'JES2', 'SMF/RMF', 'Language Env', 'Catalog', and 'PARMLIB'. The main content area displays 'IOS Info - SOW1 2014-02-20 10:01:50' and 'Processor Info' tabs. The 'Processor Info' tab is active, showing 'Central Processing Complex Node Description' with fields for CPC Node Descriptor, CPC System Info, and CPC ID. Below this is a table for 'List of CPU' with columns for CPU, Serial No., Version, Model, ZAAP, ZIIP, and WLM.

CPU	Serial No.	Version	Model	ZAAP	ZIIP	WLM
0	016815	FF	zEnterprise 190	NO	NO	NO



System Information Collection

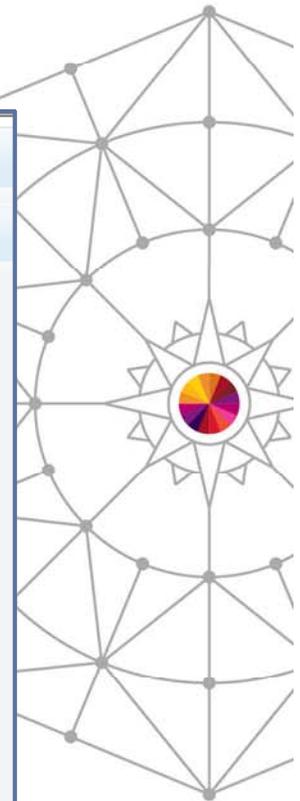
System Areas	What it Contains
RACF – Resource Access Control Facility	Information about RACF DB such as the volume it resides, buffer allocated Etc.
IPL Information	Parameters used to initialize system (SYSn.IPLPARM)
Product Information	List of IBM products installed in the shop.
LE – Language Environment	Information about the library that provides runtime services to HLLs
SMF – System Management Facility	System routines and optional user-written exit routines collect, format, and record system and job-related information
RMF – Resource Management Facility	Active record details
PARMLIB	Information about the PARMLIB Datasets and volume serial numbers that are defined in LOADxx
JES2/JES3 – Job Entry Subsystem	Information about jobs being handled by the system
DASD Volumes	Information about DASDs connected to the system
IOS Info / UCB	Information about the I/O configuration and Unit Control Blocks
CATALOG View	Manages data set attributes and indicates the volume on which a data set is located

Capture and Compare

- Capture and compare different system scans

The screenshot displays the 'Comparison' interface in TPF Software. It features a navigation bar with tabs for 'All', 'IPL', 'RACF', 'Products', 'SMF/RMF', 'Language Env.', and 'JES2'. Below the navigation bar, there are icons for printing and saving. The main content area is titled 'Comparison of two Scan Data - IPL' and is divided into two columns, each representing a different system scan.

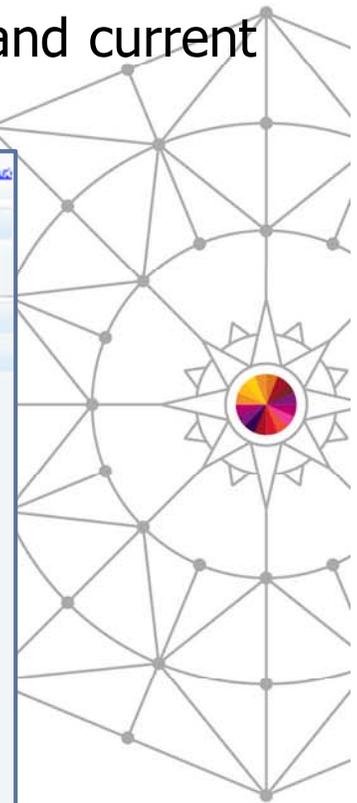
System & Scan Time: SOW1 2014-02-24 13:49:56	System & Scan Time: SOW2 2014-02-27 03:39:26
Time = 19.38.59	Time = 10.22.07
Date = 02/23/2014	Date = 02/25/2014
Day = SUNDAY	Day = TUESDAY
Operator Flag = M	Operator Flag = M
Nucleus Id = 1	Nucleus Id = 1
IODF Current = 0CE3	IODF Current = 0CE3
IPL Original = 01000	IPL Original = 01000
IPL Current = 01000	IPL Current = 01000
Volume = VPMVSB	Volume = VPMVSB
Master = MASTERV.CATALOG Type = 1	Master = MASTERV.CATALOG Type = 1
Level = 1	Level = 1
CAS = 3C	CAS = 3C
System Environment = JES2	System Environment = JES2
LPAR Name =	LPAR Name =
Sysplex Name = SVSCPLEX	Sysplex Name = SVSCPLEX
VM Name = ETPGZEA	VM Name = ETPGZEA
Architecture Level = 2	Architecture Level = 2
MTL Share = NO	MTL Share = NO
IEASYS List = (00,LV,SV,VN)	IEASYS List = (00,LV,SV,VN)
IEASYM List = (W1,SV,VN)	IEASYM List = (W2,SV,VN)
Operator = YES	Operator = YES
System = SOW1	System = SOW2
CPC SI = zEnterprise 196	CPC SI = zEnterprise 196
Model = M49	Model = M49
CPU Id = C6B15	CPU Id = C6B15
Type = CP	Type = CP
Processor = 0001	Processor = 0001
Memory = 04096	Memory = 04096
Release = z/OS	Release = z/OS
01.13.00	01.13.00
Licence = z/OS	Licence = z/OS
Load Memeber Used = LOADW1	Load Memeber Used = LOADW2
Device = 0CE3	Device = 0CE3
IPL Parm = SYS1 IPLPARM	IPL Parm = SYS1 IPLPARM



Quick Error Detection

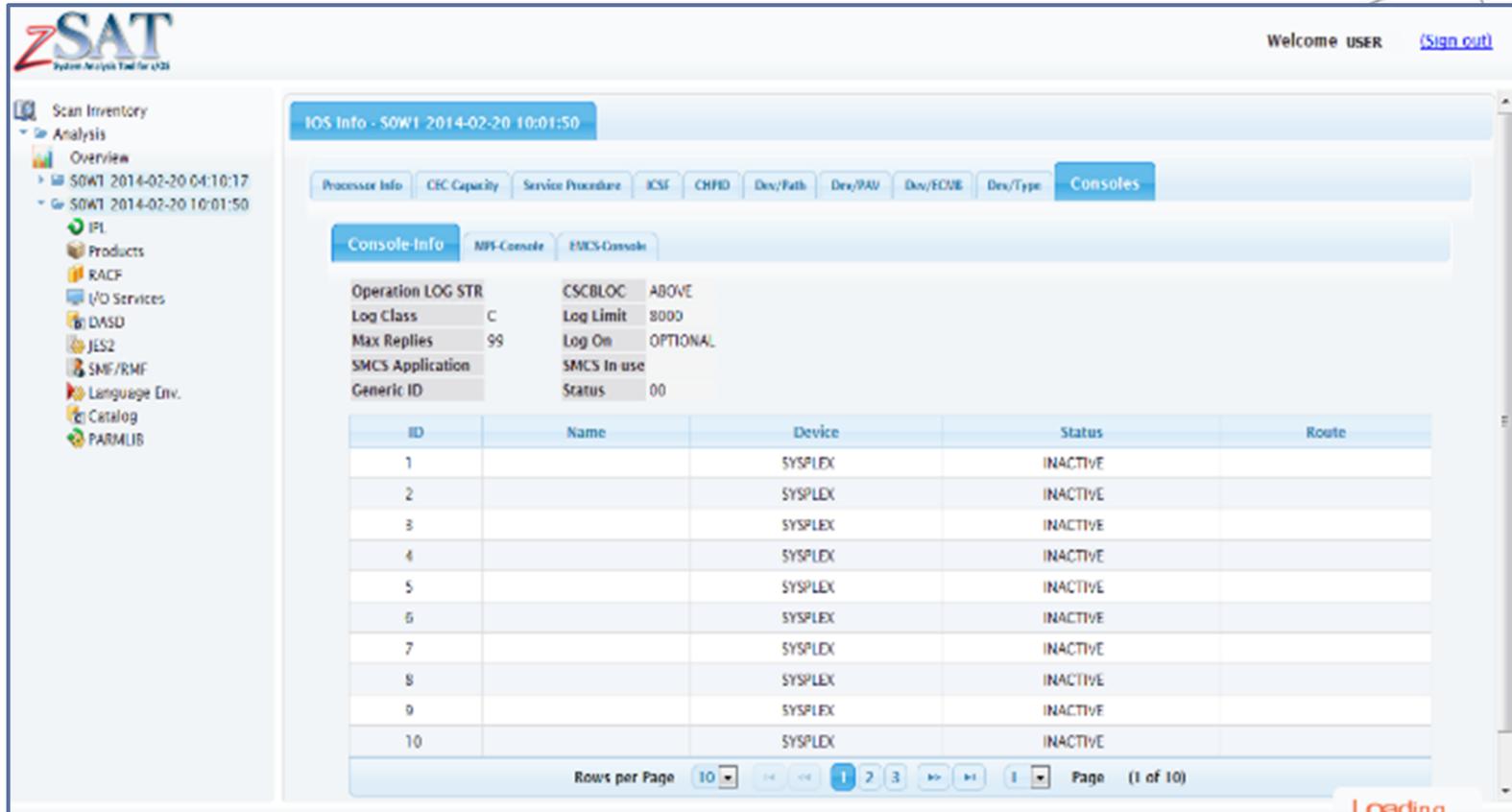
- Allows quick error detection with comparison view of past and current system checkpoints

The screenshot displays the ZSAT software interface. On the left, a navigation menu lists various system components like I7, Products, RACT, etc. A red box highlights the 'Compare' button. The main area shows a 'Comparison' view of two scan data points. The data is presented in two columns, each with a table of system parameters and their values. The tables are titled 'System & Scan Time: 2014-02-20 10:01:00' and 'System & Scan Time: 2014-02-20 10:01:00'. The data includes parameters like TIME, CPU, MEM, DISK, etc., with their respective values and units. A red box also highlights the 'Comparison' section header in the main area.



Easy Navigation and Visualization

- Easy navigation and visualization of vital system details



IOS Info - SOW1 2014-02-20 10:01:50

Welcome USER [\(Sign out\)](#)

Processor Info CEC Capacity Service Procedure ICSF CHPD Dev/Path Dev/PAW Dev/ECMB Dev/Type **Consoles**

Console-Info MPF-Console SMCS-Console

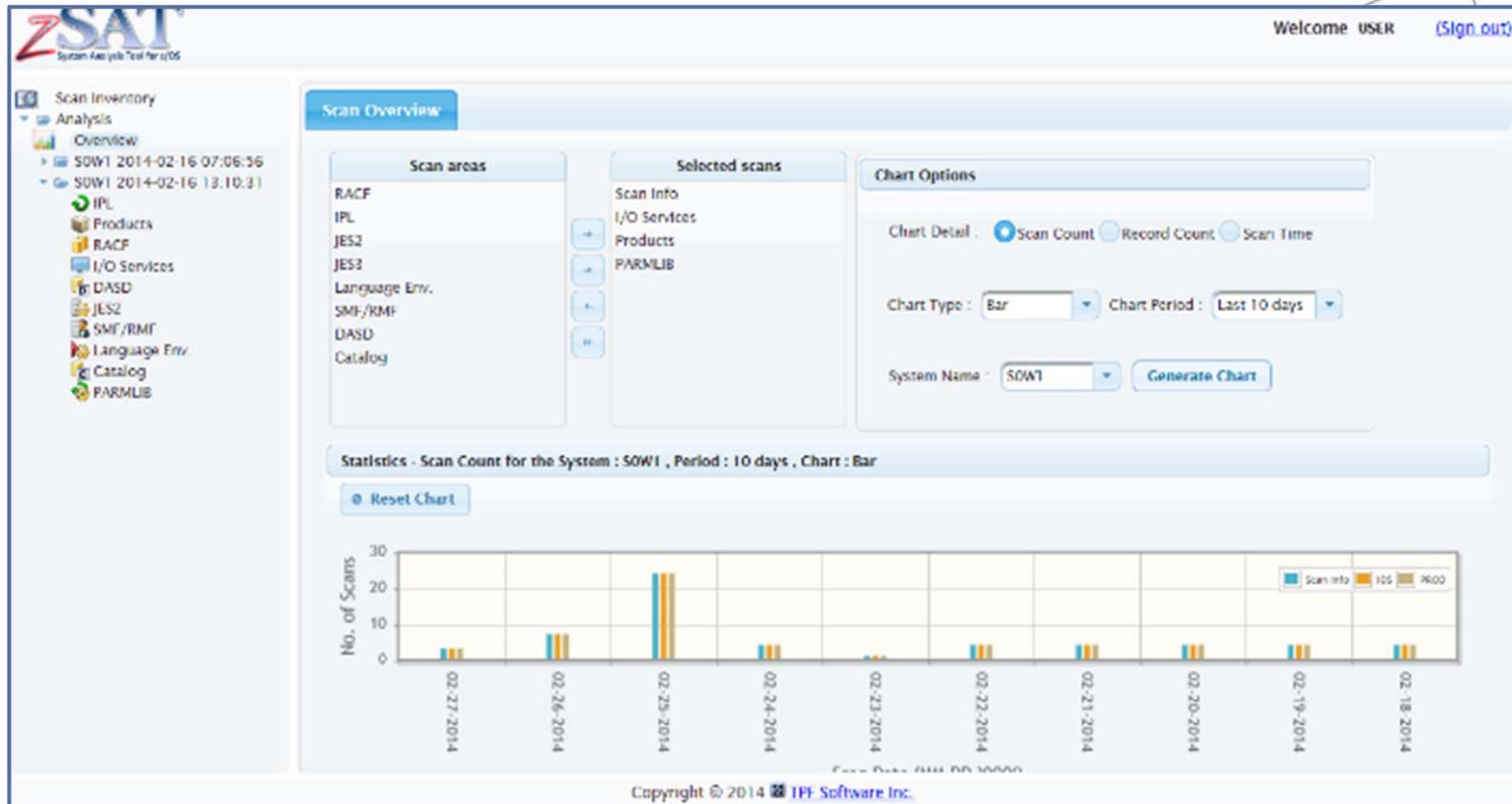
Operation LOG STR CSCBLOC ABOVE
 Log Class C Log Limit 8000
 Max Replies 99 Log On OPTIONAL
 SMCS Application SMCS In use
 Generic ID Status 00

ID	Name	Device	Status	Route
1		SYSPLEX	INACTIVE	
2		SYSPLEX	INACTIVE	
3		SYSPLEX	INACTIVE	
4		SYSPLEX	INACTIVE	
5		SYSPLEX	INACTIVE	
6		SYSPLEX	INACTIVE	
7		SYSPLEX	INACTIVE	
8		SYSPLEX	INACTIVE	
9		SYSPLEX	INACTIVE	
10		SYSPLEX	INACTIVE	

Rows per Page 10 Page (1 of 10)

Generate Reports

- Generate reports for Audits and Management



Print / Export

- Options to print or export the compared results

Comparison of two Scan Data - SMF/RMF

System & Scan Time: SOW1 2014 02 24 13:49:56

SMF Selectivity table

Table Name	Active Records	Active Exits		
SYS	014-019,062-079	IEPUAV IEFU29		
		IEFUTL IEFUJI		
		IEFUS0 IEFUJP		
		IEFUS1 IEFUJV		
		IEFACTRT IEFUS5		
		IEFU84 IEFU03		
		STC	014-019,062-079	IEFUS0 IEFUJP
				IEFUS5 IEFU84
				IEFU03 IEFU29

Dataset Information

Dataset Name	Used Volume	Size	Status
SYS1.SOW1.MAN1	021	VIMVSB	00003600 ACT
SYS1.SOW1.MAN2	001	VIMVSB	00003600 ALT

RMF Information

Table Name	Active records
SYS	NONE
STC	NONE

System & Scan Time: SOW2 2014 02 27 03:39:26

SMF Selectivity table

Table Name	Active Records	Active Exits		
SYS	014-019,062-085	IEPUAV IEFU29		
		IEFUTL IEFUJI		
		IEFUS0 IEFUJP		
		IEFUS1 IEFUJV		
		IEFACTRT IEFUS5		
		IEFU84 IEFU03		
		STC	014-019,062-085	IEFUS0 IEFUJP
				IEFUS5 IEFU84
				IEFU03 IEFU29

Dataset Information

Dataset Name	Used Volume	Size	Status
SYS1.SOW2.MAN1	020	VIMVSB	00003600 ALT
SYS1.SOW2.MAN2	002	VIMVSB	00003600 ALT

RMF Information

Table Name	Active records
SYS	NONE
STC	NONE

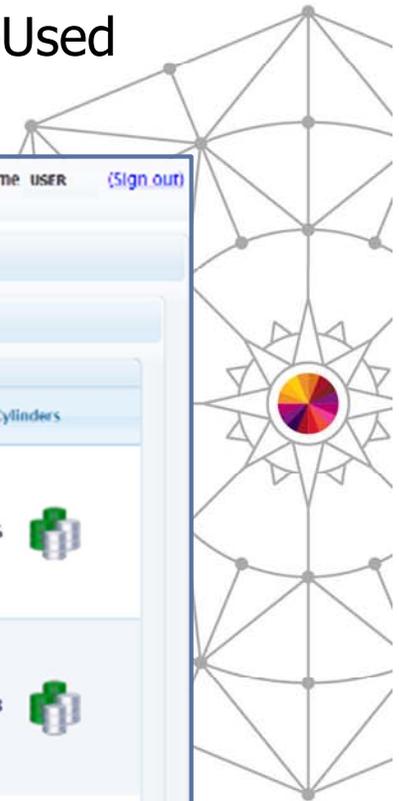
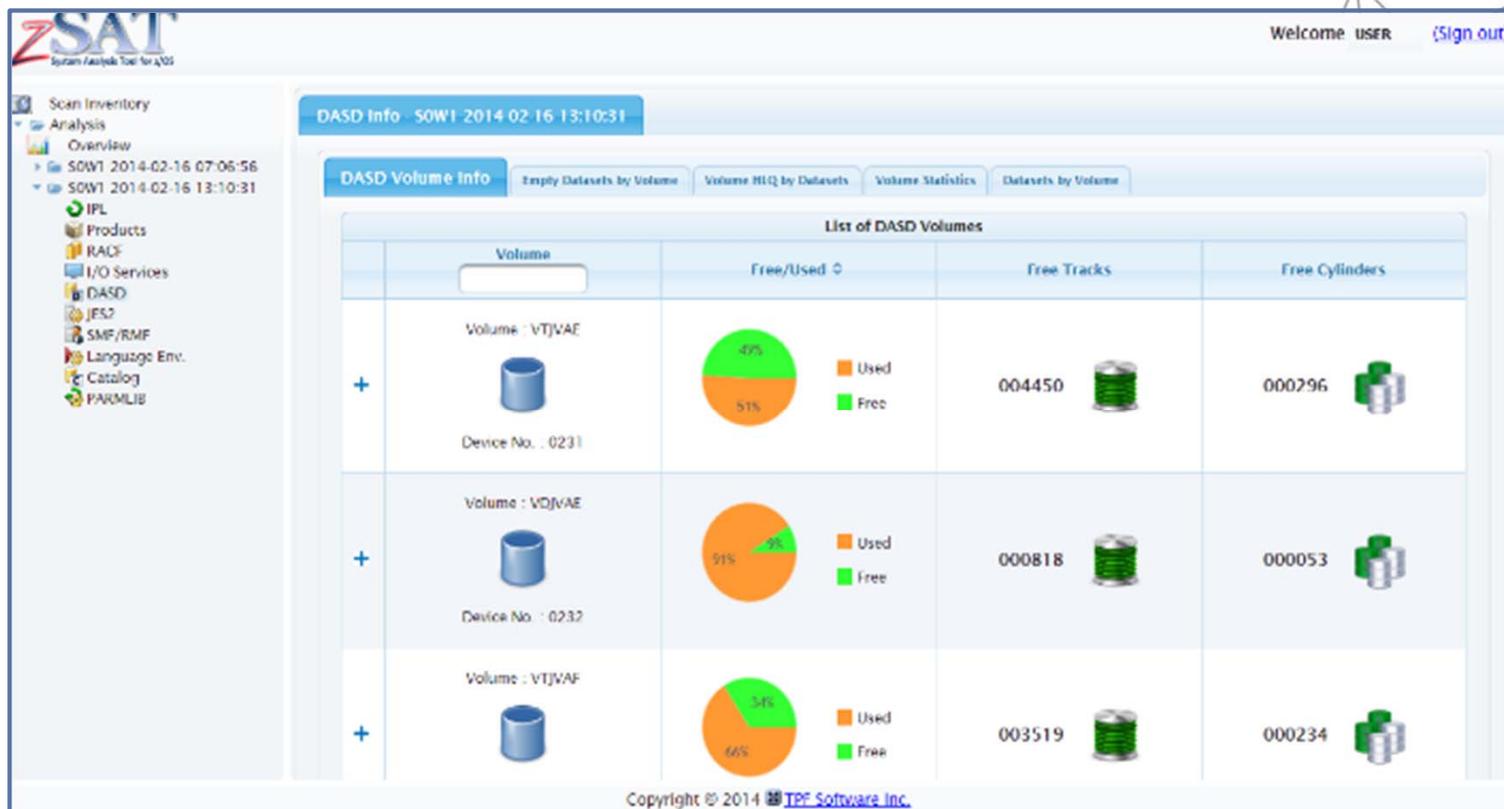
PDF Output of Comparison Results

Comparison Of Two SMF/RMF Data - SOW1 2014-02-24 13:49:56 & SOW2 2014-02-27 03:39:26 Client Logo

SOW1 2014-02-24 13:49:56					SOW2 2014-02-27 03:39:26				
SMF Selectivity table					SMF Selectivity table				
Table Name	Active Records	Active Exits			Table Name	Active Records	Active Exits		
SYS	014-019,062-079	IEFUAV	IEFU29	IEFUTL IEFUJI IEFUSO	SYS	014-019,062-083	IEFUAV	IEFU29	IEFUTL IEFUJI IEFUSO
		IEFUJP	IEFUSI	IEFUJV IEFACRT IEPUB5			IEFUJP	IEFUSI	IEFUJV IEFACRT IEPUB5
		IEFU84	IEFU83				IEFU84	IEFU83	
STC	014-019,062-079	IEFUSO	IEFUJP	IEFU85 IEFU84 IEFU83	STC	014-019,062-083	IEFUSO	IEFUJP	IEFU85 IEFU84 IEFU83
		IEFU29					IEFU29		
Dataset Information					Dataset Information				
Dataset Name	UsedVolume	Size	Status		Dataset Name	UsedVolume	Size	Status	
SYS1.SOW1.MAN1	021	VPMVSB	00003600	ACT	SYS1.SOW2.MAN1	020	VPMVSB	00003600	ACT
SYS1.SOW1.MAN2	001	VPMVSB	00003600	ALT	SYS1.SOW2.MAN2	002	VPMVSB	00003600	ALT
RMF Information					RMF Information				
Table Name	Active records				Table Name	Active records			
SYS	NONE				SYS	NONE			
STC	NONE				STC	NONE			

DASD List View

- Provides graphical display of Least Used and Over-Used system details



Control Blocks and Data Areas

- Allows simple interpretation of complex z/OS control blocks and data areas



The screenshot shows the ZSAT DASD Info interface for a scan of SOW1 on 2014-02-16 at 13:10:31. The 'Volume Statistics' tab is active, displaying a table of DASD volumes with their respective statistics.

Volume	UCB	No of SSCH/RSCH	No of sample	Connect Time	Pending Time	Subchannel Disc Time	CU Queue Time	Device Active Time	Device Busy Time	Init Cmd Time
Volume : VTJVAE Device No. : 0231	02371A88	7368	7368	16381	11555	108	0	0	0	7769
Volume : VDJVAE Device No. : 0232	02371B20	90283	90283	21207	17858	3111	0	0	0	68103
Volume : VTJVAF Device No. : 0233	02371B88	15478	15478	12294	77120	85903	0	0	0	06087
Volume : VDJVAF Device No. : 0234	02371C50	28589	28589	07234	04651	4210	0	0	0	36209

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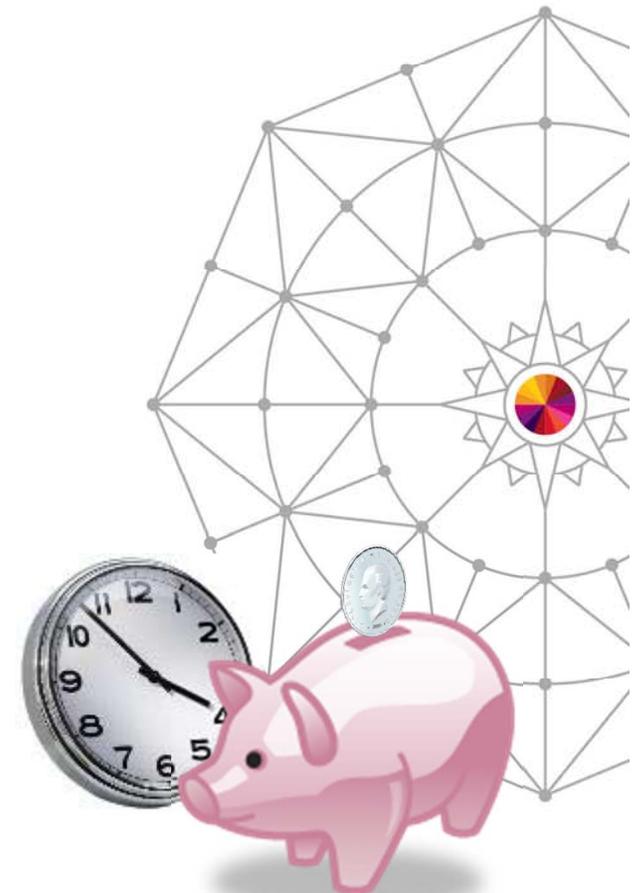
Key Benefits of zSAT

- Saves analysis time and effort
- Facilitates easy configuration, without requiring additional client software
- Effective and Efficient navigation and representation of vital system details
- Compatible with any smart devices



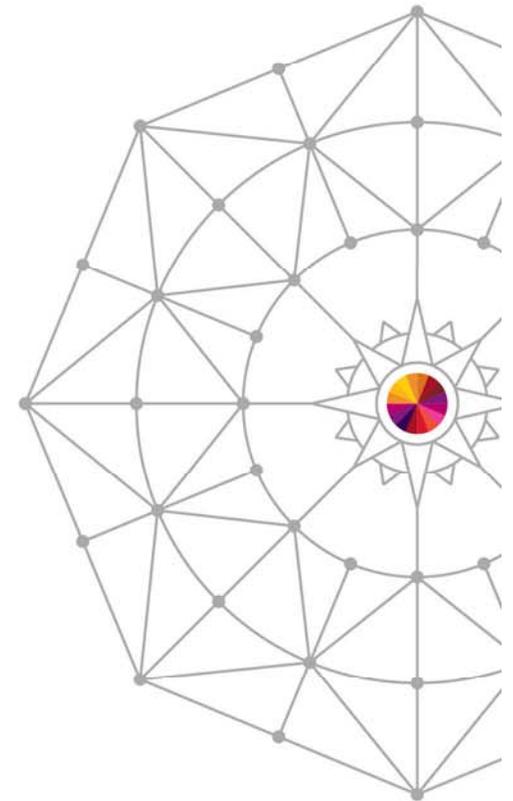
Key Benefits of zSAT

- Enhanced Comparison Views
- Powerful Graphical Reporting
- System Health indicators
- Dashboard for critical information
- Generate alerts
- User customizable exits



And More...

- Provision for monitoring facility
- TCP/IP and FTP Details
- Unix System Services Info
- WLM, ENQ
- More CBs and Statistics



Prerequisites/Installation



PC

- IE 9 or above
- Firefox 21 or above
- Chrome 27 or above
- Safari 4 or above
- Minimum 2GB RAM



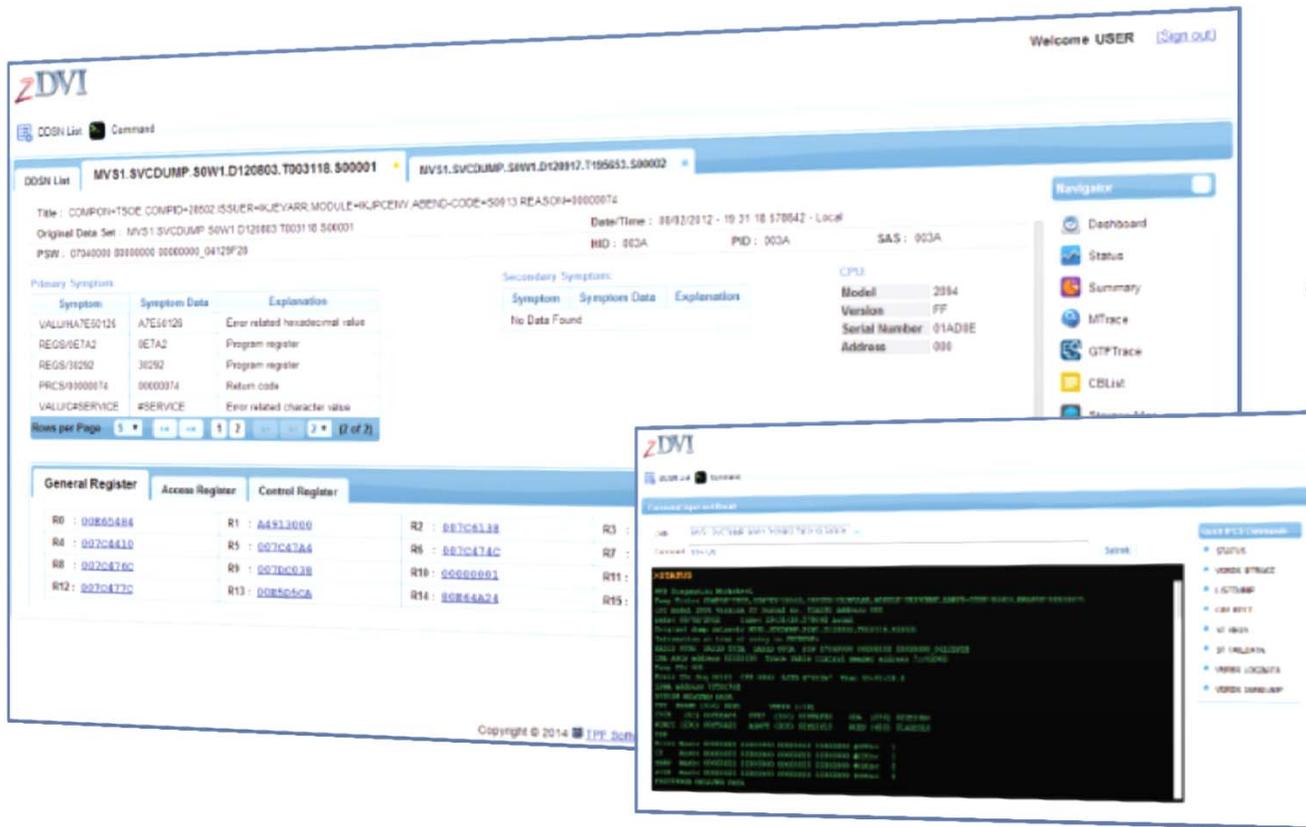
z/OS

- Any current version of z/OS
- RACF rules need to be defined
- TCP/IP port
- Startup procedure (JCL)
- FTP server
- Web Server

Any Questions



zDVI Overview (z/OS Dump Viewer)

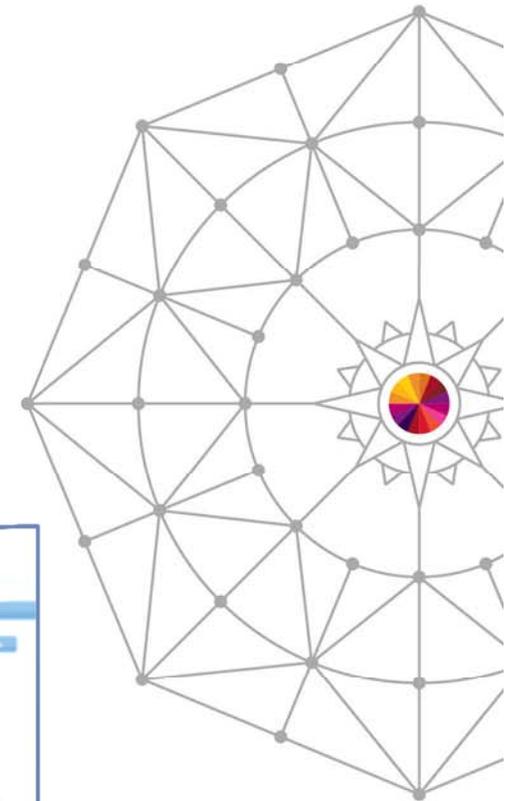


Primary Symptoms

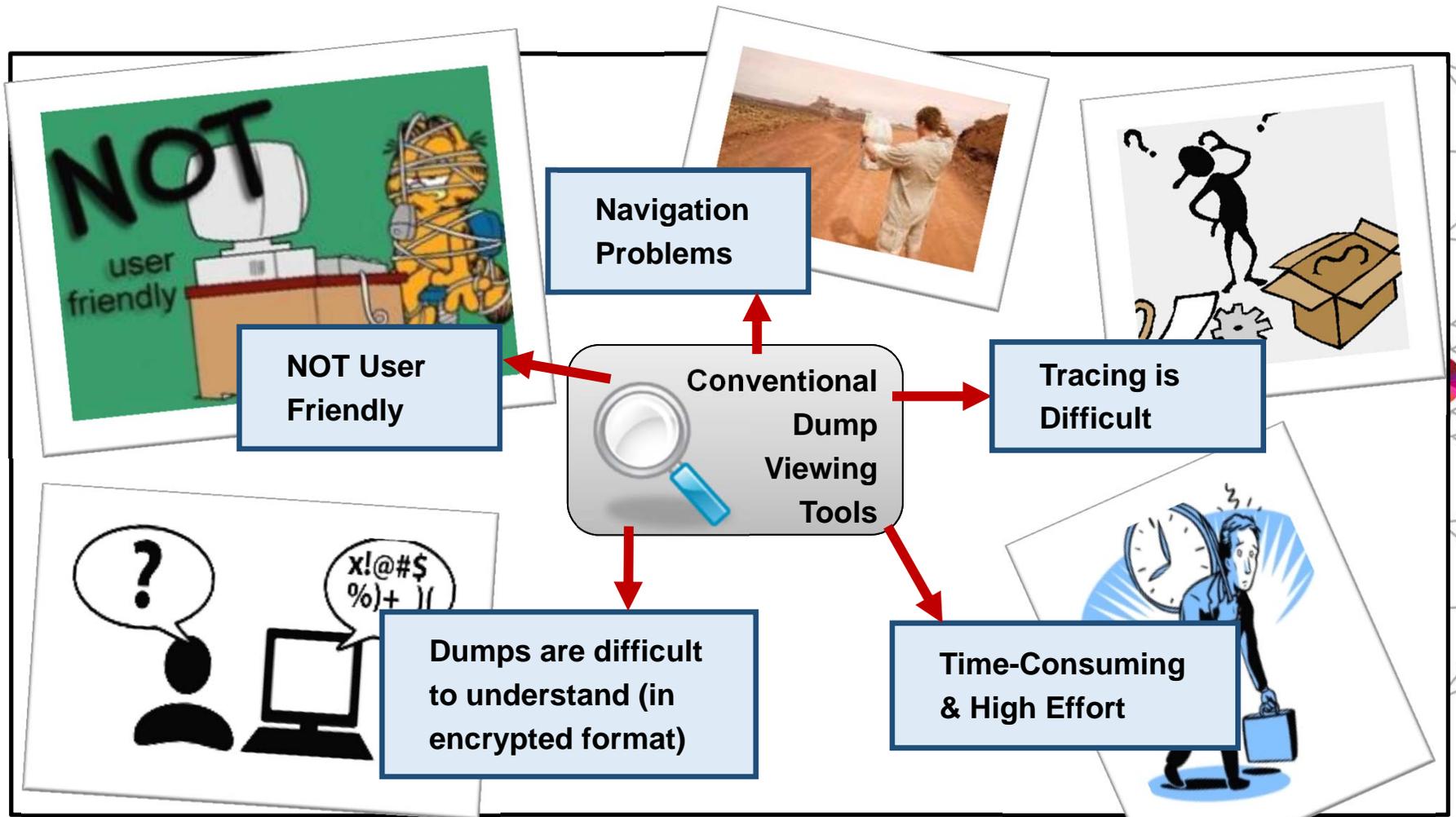
Symptom	Symptom Data	Explanation
VALUHA/E0121	A7E6129	Error related hexadecimal value
REGS/0E7A2	0E7A2	Program register
REGS/30292	30292	Program register
PRCS/9000074	0000074	Return code
VALUICSERVICE	#SERVICE	Error related character value

General Register

General Register	Access Register	Control Register
R0 : 00E6D484	R1 : A4912000	R2 : 007C6138
R4 : 007C6410	R5 : 007C47A4	R6 : 007C47AC
R8 : 007C476C	R9 : 007D0038	R10 : 00000001
R12 : 007C477C	R13 : 00E6A2C4	R14 : 00E6A2A4

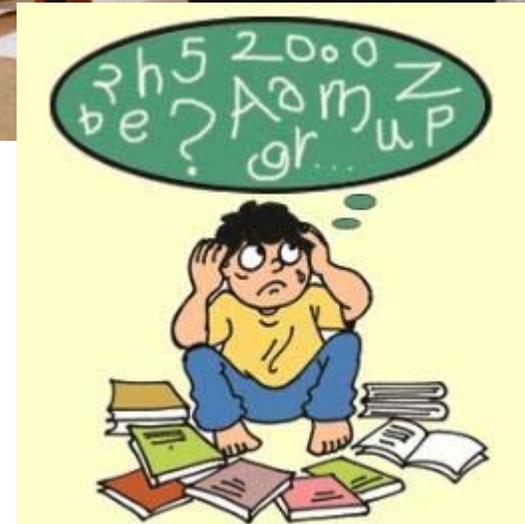
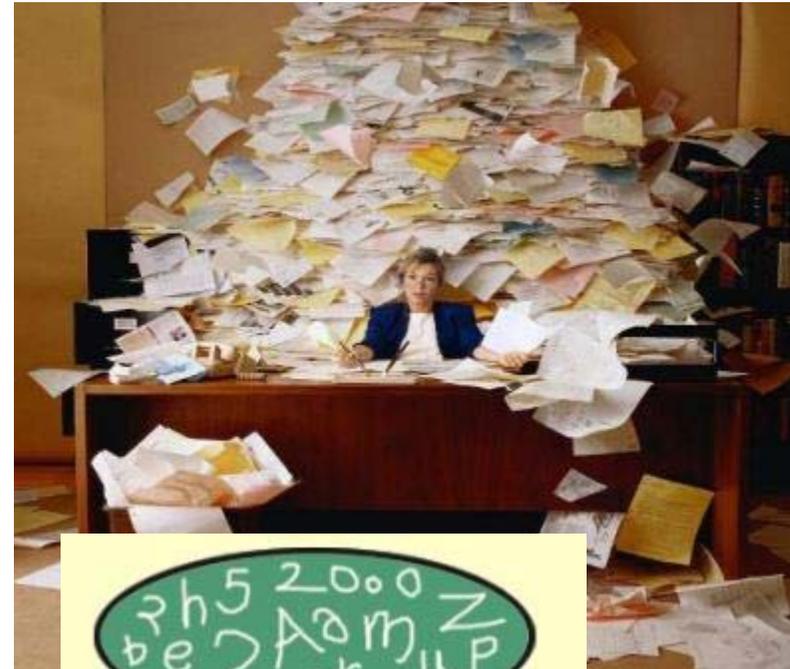


Dump Analysis: The Challenges



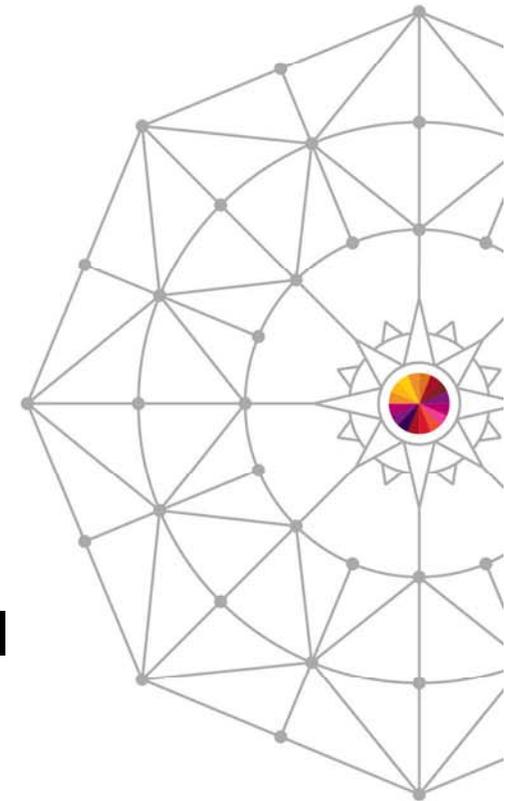
Dump Analysis: The Challenges

- Most of the existing dump viewing tools are menu-driven utilities
- No easy access to dump information or critical areas of z/OS System for analysis
- **User has to memorize lengthy commands and sub commands**



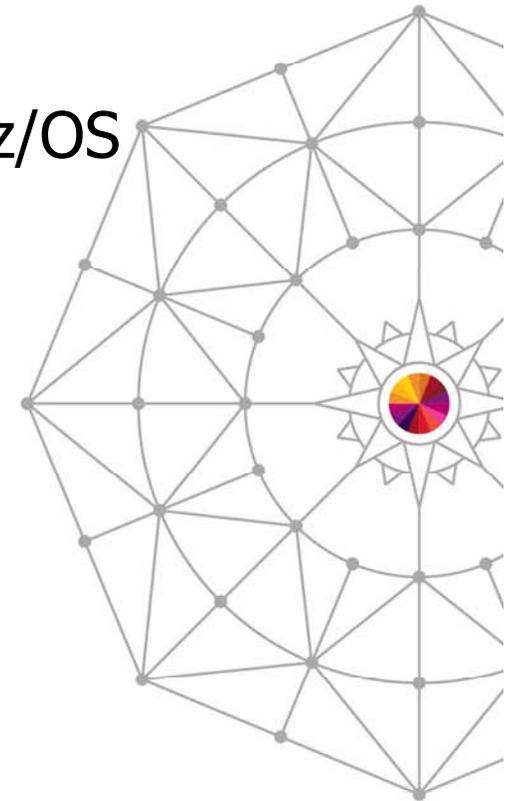
Dump Analysis: The Challenges

- Conventional Dump Viewing Tools
 - Difficult to navigate
 - Difficult to trace
 - Time consuming and large effort
 - Difficult to understand encrypted dumps
 - Not user friendly
 - Menu-driven
 - No easy access to dump information or critical areas of z/OS System for analysis
 - User has to memorize lengthy commands and sub commands

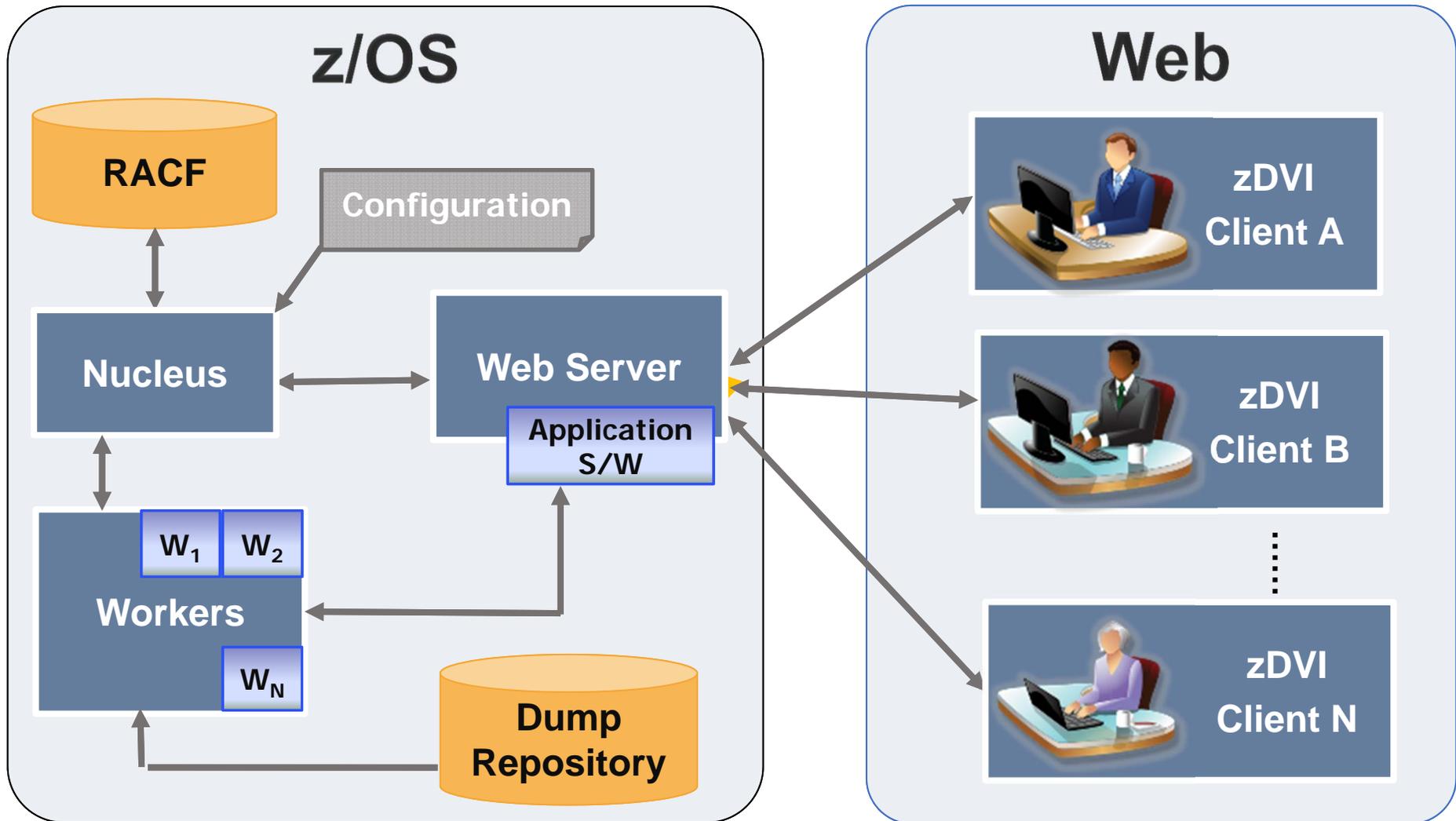


The Solution: zDVI

- Dump Viewer for z/OS
- Intuitive, simple-to-use, web-based GUI for z/OS programmers
- Allows quick dump analysis
- Easy navigation to move through the dump
- Easy access to critical dump information
- Logical organization of dump information
- Multiple dump browsing capabilities

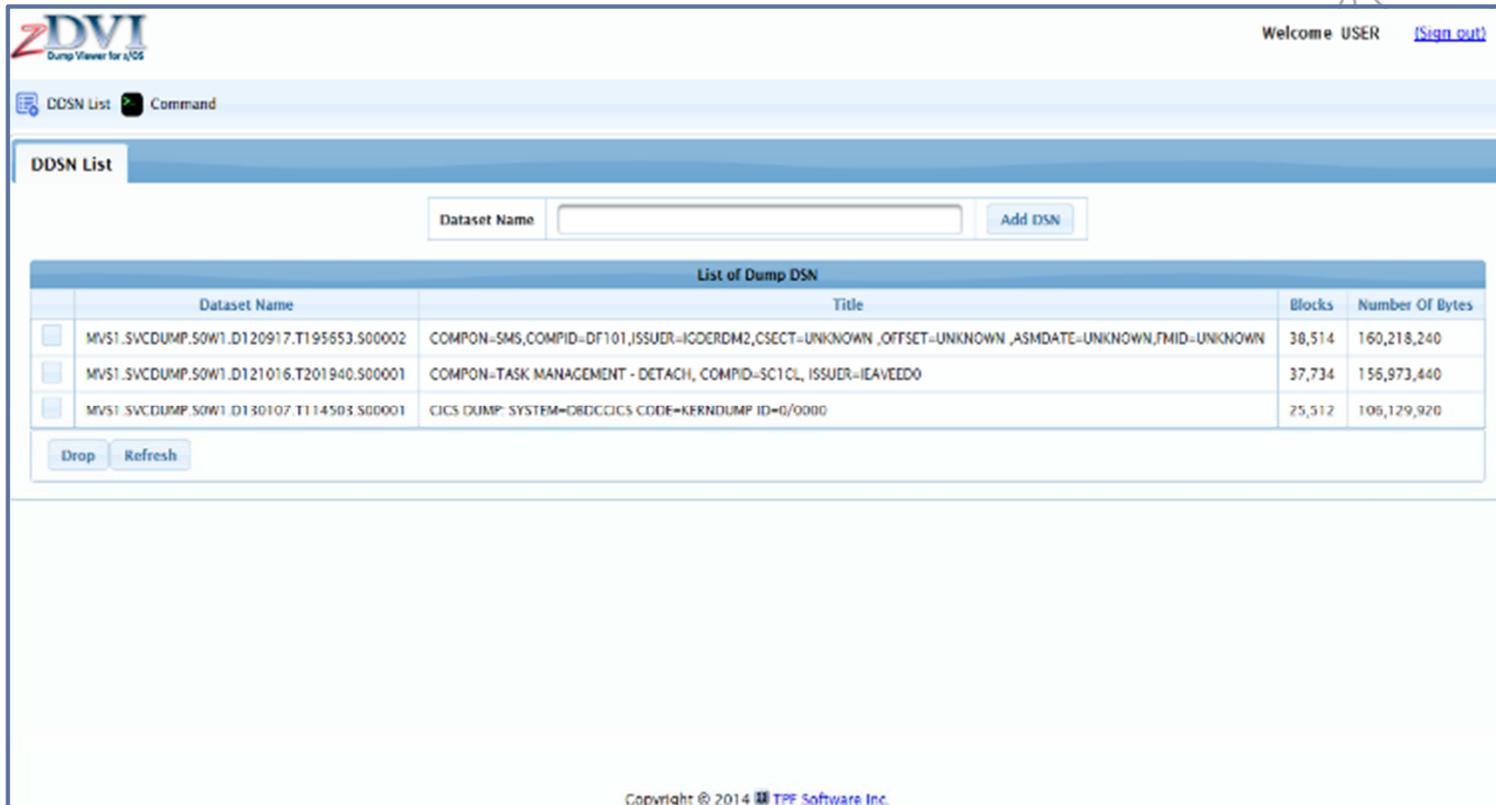


zDVI Architecture



Graphical User Interface

- Comprehensive, simple-to-use GUI dump analysis tool for z/OS programmers



zDVI
Dump Viewer for z/OS

Welcome USER [\(Sign out\)](#)

DDS List Command

DDS List

Dataset Name Add DSN

List of Dump DSN				
	Dataset Name	Title	Blocks	Number Of Bytes
<input type="checkbox"/>	MVS1.SVCDUMP.S0W1.D120917.T195653.S00002	COMPON=SMS,COMPID=DF101,ISSUER=IGDERDM2,CSECT=UNKNOWN,OFFSET=UNKNOWN,ASMDATE=UNKNOWN,FMID=UNKNOWN	38,514	160,218,240
<input type="checkbox"/>	MVS1.SVCDUMP.S0W1.D121016.T201940.S00001	COMPON=TASK MANAGEMENT - DETACH, COMPID=SC1CL, ISSUER=IEAVEED0	37,734	156,973,440
<input type="checkbox"/>	MVS1.SVCDUMP.S0W1.D130107.T114503.S00001	CICS DUMP SYSTEM=DBDCICCS CODE=KERNDUMP ID=0/0000	25,512	106,129,920

Drop Refresh

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Easy-to-Read Snapshots

- Provides easy-to-read dump snapshots

The screenshot displays the zDVI Dump Viewer for AOS interface. At the top, it shows the logo and the text 'Dump Viewer for AOS'. The user is logged in as 'USER' and can click '(Sign out)'. Below the header, there is a 'DDSN List' and a 'Command' field. The main content area is titled 'Dashboard' and contains the following information:

Title: COMPON=TASK MANAGEMENT - DETACH, COMPID=SC1CL, ISSUER=IEAVEEDO
Original Data Set: MV51.SVCDUMP.SOW1.D121016.T201940.S00001
Date/Time: 10/16/2012 - 15:19:49.555131 - Local
PSW: 07040000 80000000 00000000_014D7744
HID: 004F **PID:** 004F **SAS:** 004F

Primary Symptom:

Symptom	Symptom Data	Explanation
RIDS/IEANUC01#L	IEANUC01#L	Routine Identifier
RIDS/IEAVEEDO	IEAVEEDO	Routine Identifier
PIDS/5752SC1CL	5752SC1CL	Component Identifier
AR/S00C4	00C4	ABEND code - system
RIDS/IEAVEEDO#R	IEAVEEDO#R	Routine Identifier

Secondary Symptom:

Symptom	Symptom Data	Explanation
No Data Found		

CPU:

Model	2094
Version	FF
Serial Number	01AD0E
Address	000

General Register:

R0 : 8148286c	R1 : 7FF7BA08	R2 : 007c2938	R3 : 0014F8D0
---------------	---------------	---------------	---------------

At the bottom of the interface, it says 'Copyright © 2014 TPF Software Inc.'.

Logical Group Displays

- Logical group display of dump data

The screenshot shows the zDVI Dump Viewer for z/OS interface. The main content area displays the following information:

System Info

Date Information		System Status	
Original Dump	MVS1.SVCDUMP.S0W1.D121016.T201940.S00001	Nucleus Name	IEANUC01
Secondary ASID	004F	Config ID	MVS
PSW	07040000 80000000 00000000_014D7744	Dump Type	SVCDUMP
		Local Time	10/16/2012 15:19:49.555131 local
		GMT Time	10/16/2012 20:19:49.555131 GMT
		Requesting Dump	IEAVISDT
Home ASID	004F	IODF Name	SYS1.IODF00
Primary ASID	004F	EDT ID	00
		Sysplex Name	SVSCPLEX
		Local TOD	CA53EF81 A4788E6C
		GMT TOD	CA54328F C7BB8E6C

CVT Control Block Information

Label	Offset	Data
System Name	(154)	S0W1
Version	(-18)	
UC Address	(64)	00FDEB08
Private Address	(164)	00FFAF60

Common System Data Area

CPU Name	Count	Mask
Alive	1	80000000 00000000 00000000 00000000
CP	1	80000000 00000000 00000000 00000000
zAAP	0	00000000 00000000 00000000 00000000
zIIP	0	00000000 00000000 00000000 00000000

The interface also includes a 'Navigator' sidebar with options: Dashboard, Status, Summary, MTrace, GTFTrace, CBLIST, and Storage Map. The footer of the application window reads 'Copyright © 2014 TPF Software Inc.'

Easy Navigation

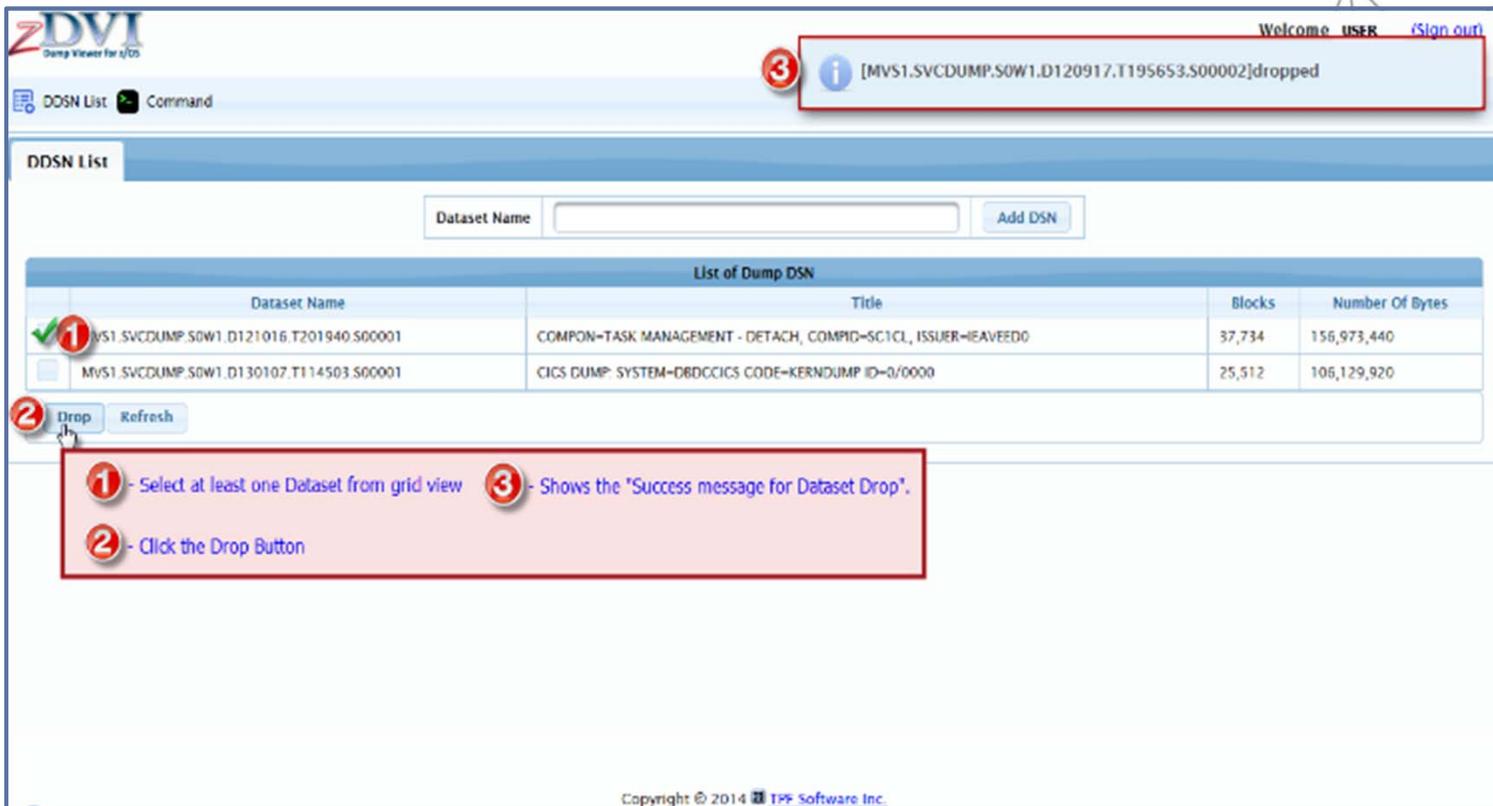
- Quick access to critical dump information

The screenshot displays the ZDVI Dump Viewer for z/OS interface. The main window shows a 'CB List' for the dump 'MVS1.SVCDUMP.S0W1.D121016.T201940.S00001'. On the right side, a 'Navigator' panel is visible, containing several menu items: Dashboard, Status, Summary, MTrace, CTFTTrace, CBList, and Storage Map. The 'CBList' item is circled in red, indicating quick access to critical dump information.

Symbol	Address
CVT	FD6158.
ABENDCODE	00.
ASCB1	FDD400.
ASCB2	FC7000.
ASCB3	FB4100.
ASCB4	F53800.
ASCB5	F53680.
ASCB6	F83680.
ASCB7	F83500.
ASCB8	F56680.
ASCB9	F56080.
ASCB10	F54500.
ASCB11	F54380.

Add, Browse, Delete DSN Index

- Allows management of dump DSN index using simple Add, Browse & Delete functions



zDVI Dump Viewer for z/OS

Welcome USER (Sign out)

DOSN List Command

Dataset Name Add DSN

List of Dump DSN				
	Dataset Name	Title	Blocks	Number Of Bytes
<input checked="" type="checkbox"/>	MVS1.SVCDUMP.S0W1.D121016.T201940.S00001	COMPON=TASK MANAGEMENT - DETACH, COMPID=SC1CL, ISSUER=IEAVEED0	37,734	156,973,440
<input type="checkbox"/>	MVS1.SVCDUMP.S0W1.D130107.T114503.S00001	CICS DUMP: SYSTEM-DBDCCICS CODE-KERNDUMP ID=0/0000	25,512	106,129,920

Drop Refresh

1 - Select at least one Dataset from grid view 2 - Click the Drop Button 3 - Shows the "Success message for Dataset Drop".

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Storage Maps

- Displays Address Spaces, Core Blocks, Dump Storage and so on

zDVI Dump Viewer for z/OS

Welcome USER (Sign out)

DDS List Command

DDS List MVS1.SVC.DUMP.SOW1.D121016.T201940.S00001

Storage Map

List Storage

LIST 00. ASID(X'0001') LENGTH(X'2000') MODULE(leavx00)
LIST 00. ASID(X'0001') LENGTH(X'2000') STRUCTURE(Psa)
LIST 2000. ASID(X'0001') LENGTH(X'7FE000') AREA(jobmaster)
LIST 2000. ASID(X'0001') LENGTH(X'7FE000') AREA(Private)
LIST 800000. ASID(X'0001') LENGTH(X'') AREA(Common)
LIST AA1200. ASID(X'0001') LENGTH(X'04') STRUCTURE(Rmct)
LIST C317E0. ASID(X'0001') LENGTH(X'04') STRUCTURE(Tsb)
LIST C55FD0. ASID(X'0001') LENGTH(X'04') STRUCTURE(Tlot)
LIST C7C000. ASID(X'0001') LENGTH(X'28') STRUCTURE(Lodemminor)
LIST F53680. ASID(X'0001') LENGTH(X'0180') STRUCTURE(Ascbl)
LIST F53800. ASID(X'0001') LENGTH(X'0180') STRUCTURE(Ascbl)
LIST F53B80. ASID(X'0001') LENGTH(X'0180') STRUCTURE(Ascbl)
LIST F53D00. ASID(X'0001') LENGTH(X'0180') STRUCTURE(Ascbl)
LIST F53E80. ASID(X'0001') LENGTH(X'0180') STRUCTURE(Ascbl)
LIST F54080. ASID(X'0001') LENGTH(X'0180') STRUCTURE(Ascbl)

Navigator

- Dashboard
- Status
- Summary
- MTrace
- GTFTTrace
- CBLIST
- Storage Map

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Categorized of Trace Data

- Easy to read traces because the data is categorized in tabs

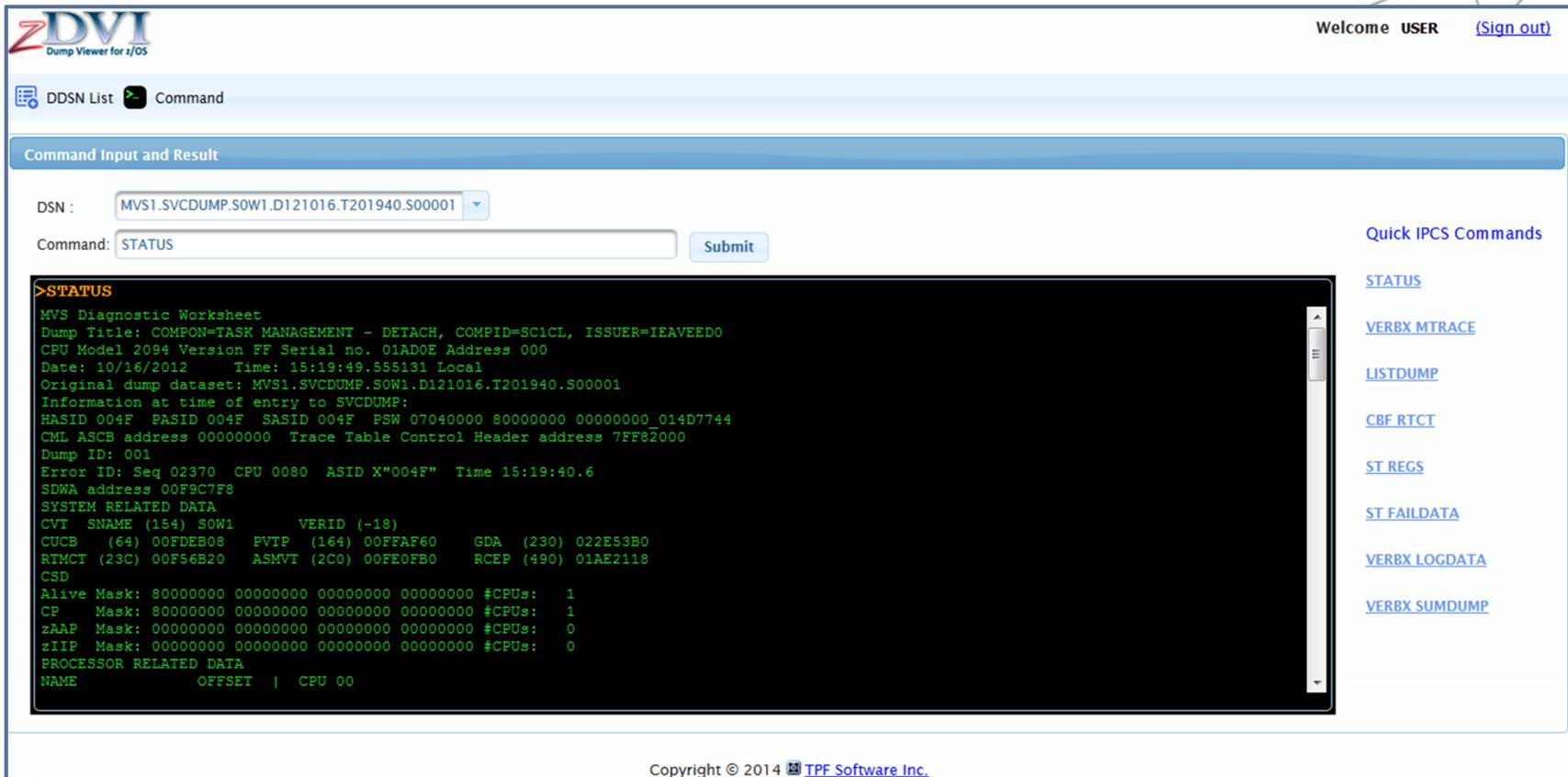
The screenshot displays the zDVI Dump Viewer for z/OS interface. At the top, it shows the logo and the text "Dump Viewer for z/OS". The user is logged in as "USER" and can click "Sign out". Below the header, there are tabs for "DDSN List" and "Command". The main area shows a "Master Trace" table with the following data:

Tag	Immediate Data	Data1	System Name	Day	Time	Job Name	Message Identifier	Message data
0001	00000045	NC00000000	S0W1	12290	14:42:18.41	GIOVANI	00000290	\$COJ(1109),OUTGRP=1.1.1
0001	0000001D	NR00000000	S0W1	12290	14:42:18.49	JOB01109	00000090	\$HASP686 OUTPUT(ZAS#ALCS) OUTGRP=1.1.1 CANCELLED
0001	00000045	NC00000000	S0W1	12290	14:42:18.50	GIOVANI	00000290	\$COJ(1111),OUTGRP=1.1.1
0001	00000045	NC00000000	S0W1	12290	14:42:18.59	GIOVANI	00000290	\$COJ(1112),OUTGRP=1.1.1
0001	0000001D	NR00000000	S0W1	12290	14:42:18.61	JOB01111	00000090	\$HASP686 OUTPUT(ZASPMED) OUTGRP=1.1.1 CANCELLED
0001	00000045	NC00000000	S0W1	12290	14:42:18.68	GIOVANI	00000290	\$COJ(1115),OUTGRP=1.1.1
0001	0000001D	NR00000000	S0W1	12290	14:42:18.75	JOB01112	00000090	\$HASP686 OUTPUT(ZAS#ALCS) OUTGRP=1.1.1 CANCELLED
0001	0000001D	N 02000000	S0W1	12290	14:42:18.89	JOB01109	00000090	\$HASP250 ZAS#ALCS PURGED -- (JOB KEY WAS CA52D8C3)
0001	0000001D	NR00000000	S0W1	12290	14:42:18.89	JOB01115	00000090	\$HASP686 OUTPUT(ZASPMED) OUTGRP=1.1.1 CANCELLED
0001	0000001D	N 02000000	S0W1	12290	14:42:19.02	JOB01111	00000090	\$HASP250 ZASPMED PURGED -- (JOB KEY WAS CA52DD2C)
0001	0000001D	N 02000000	S0W1	12290	14:42:19.16	JOB01112	00000090	\$HASP250 ZAS#ALCS PURGED -- (JOB KEY WAS CA52DD32)
0001	0000001D	N 02000000	S0W1	12290	14:42:19.29	JOB01115	00000090	\$HASP250 ZASPMED PURGED -- (JOB KEY WAS CA52E4FE)

The interface also features a "Navigator" sidebar on the right with the following options: Dashboard, Status, Summary, MTrace, GTFTrace, CBLlist, and Storage Map. The footer of the interface reads "Copyright © 2014 TPF Software Inc."

Command Interface

- Built-in Command Interface



The screenshot displays the ZDVI (Dump Viewer for z/OS) web interface. At the top left is the ZDVI logo. The top right shows a user greeting: "Welcome USER" with a "(Sign out)" link. Below the header, there are two tabs: "DDSN List" and "Command". The "Command" tab is active.

The main area is titled "Command Input and Result". It contains a "DSN:" dropdown menu with the value "MVS1.SVCDUMP.SOW1.D121016.T201940.S00001" and a "Command:" text input field containing "STATUS". A "Submit" button is located to the right of the command field.

The output of the command is displayed in a black terminal window. The output text is as follows:

```
>STATUS
MVS Diagnostic Worksheet
Dump Title: COMPON=TASK MANAGEMENT - DETACH, COMPID=SC1CL, ISSUER=IEAVEEDO
CPU Model 2094 Version FF Serial no. 01AD0E Address 000
Date: 10/16/2012      Time: 15:19:49.555131 Local
Original dump dataset: MVS1.SVCDUMP.SOW1.D121016.T201940.S00001
Information at time of entry to SVCDUMP:
HASID 004F PASID 004F SASID 004F PSW 07040000 80000000 00000000 014D7744
CML ASCB address 00000000 Trace Table Control Header address 7FF82000
Dump ID: 001
Error ID: Seq 02370 CPU 0080 ASID X"004F" Time 15:19:40.6
SDWA address 00F9C7F8
SYSTEM RELATED DATA
CVT SNAME (154) SOW1          VERID (-18)
CUCB (64) 00FDEB08  PVTIP (164) 00FFAF60  GDA (230) 022E53B0
RTMCT (23C) 00F56B20  ASMVT (2C0) 00FE0FB0  RCEP (490) 01AE2118
CSD
Alive Mask: 80000000 00000000 00000000 00000000 #CPUs: 1
CP Mask: 80000000 00000000 00000000 00000000 #CPUs: 1
zAAP Mask: 00000000 00000000 00000000 00000000 #CPUs: 0
zIIP Mask: 00000000 00000000 00000000 00000000 #CPUs: 0
PROCESSOR RELATED DATA
NAME          OFFSET | CPU 00
```

On the right side of the interface, there is a "Quick IPCS Commands" section with several links: STATUS, VERBX MTRACE, LISTDUMP, CBF RTCT, ST REGS, ST FAILDATA, VERBX LOGDATA, and VERBX SUMDUMP.

At the bottom of the interface, the copyright notice reads: "Copyright © 2014 TPF Software Inc."

Memory Contents View

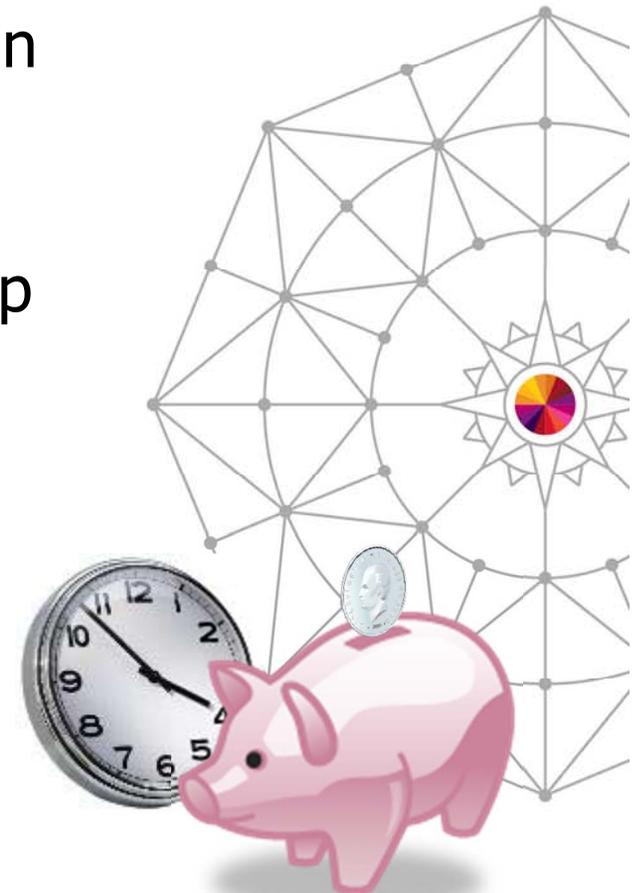
- Double-click memory address to view the memory contents in a popup window

The screenshot shows the zDVI (Dump Viewer for z/OS) interface. A popup window titled "Memory Contents - Google Chrome" is open, displaying a memory dump for address 7F5FE150. The dump shows hexadecimal addresses and their corresponding values, with some values represented by asterisks for non-printable characters. Below the dump, a table of registers (R0-R15) is visible, with R8 containing the value 7F5FE150. A mouse cursor is hovering over the R8 register value.

Address	Value	Address	Value	Address	Value	Address	Value		
7F5FE150	7F5FE144 7F50D000 00000001 7F5FE150	7F5FE158	7F50E000 00000001 7F5FE15C 7F50F000 00000001 7F5FE168 7F510000 00000001	7F5FE16C	7F511000 00000001 00000000 C6D6C840 D7D6D8D3 0000000C 7FFD19B8	7F5FE170	7F512000 00000001 00000000 00000000 00000000 00000000 00000000 00000000	7F5FE174	7F513000 00000001 00000000 00000000 00000000 00000000 00000000 00000000

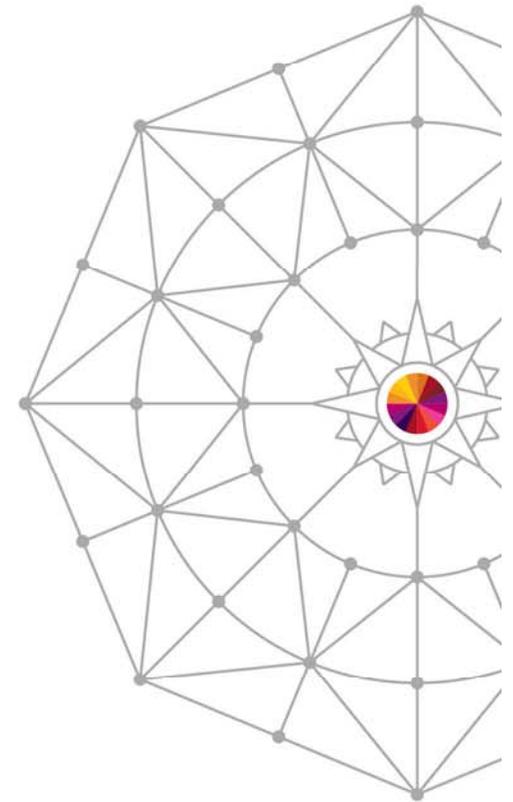
Key Benefits of zDVI

- Save analysis time and effort, resulting in significant cost-savings and enhanced productivity
- Provide easy accessibility to critical dump information
- Comprehensive Report Generation for Dump Information
- Easy To Install, Configure and Maintain
- User-friendly interface for both experienced and novice users
- Minimizes CPU Utilization



And More...

- Support CICS, ALCS and IMS Communities



Prerequisites / Installation



PC

- IE 9 or above
- Firefox 21 or above
- Chrome 27 or above
- Safari 4 or above
- Minimum 2GB RAM



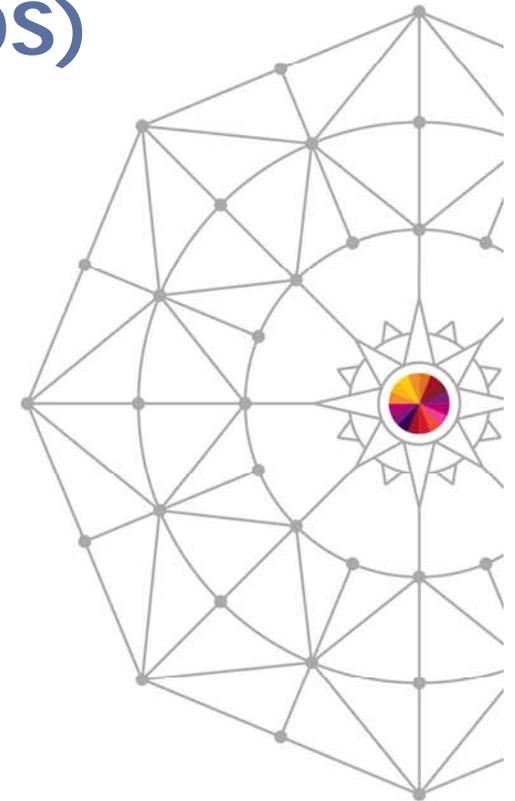
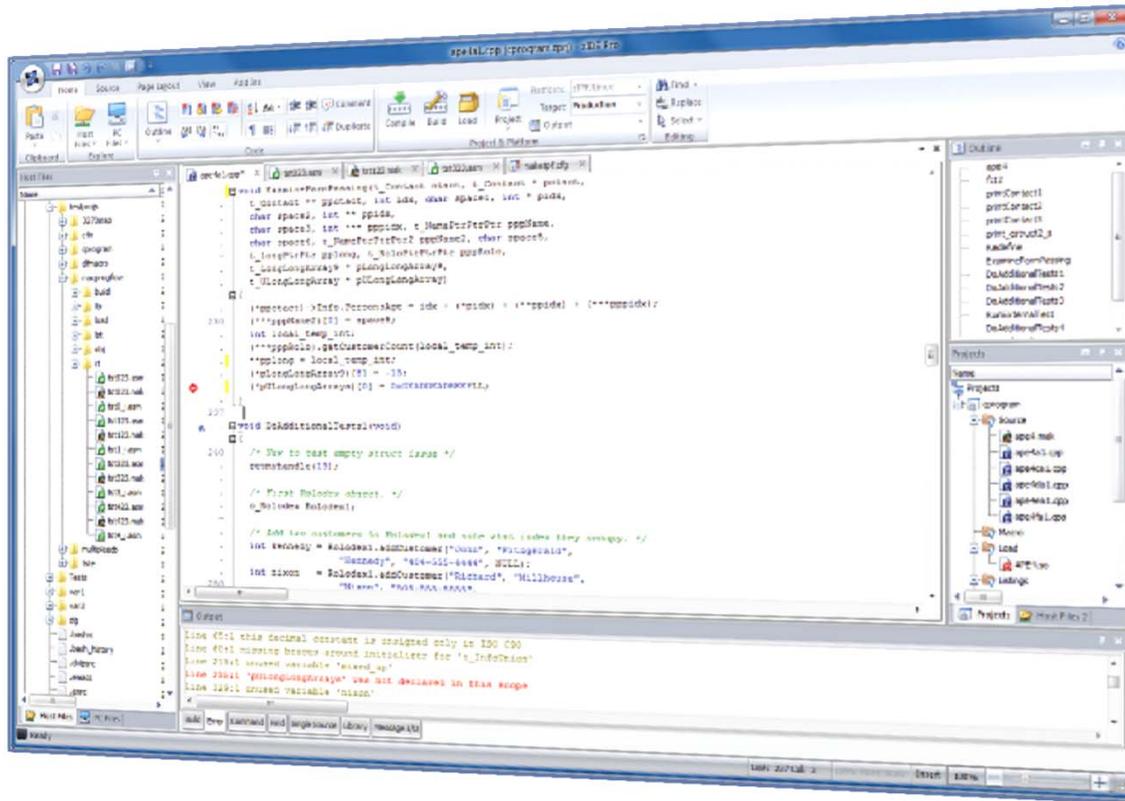
z/OS

- Any current version of z/OS
- RACF rules need to be defined
- TCP/IP port
- Startup procedure (JCL)
- FTP server
- Web Server

Any Questions



zIDE Pro Overview (Development Environment for z/OS)



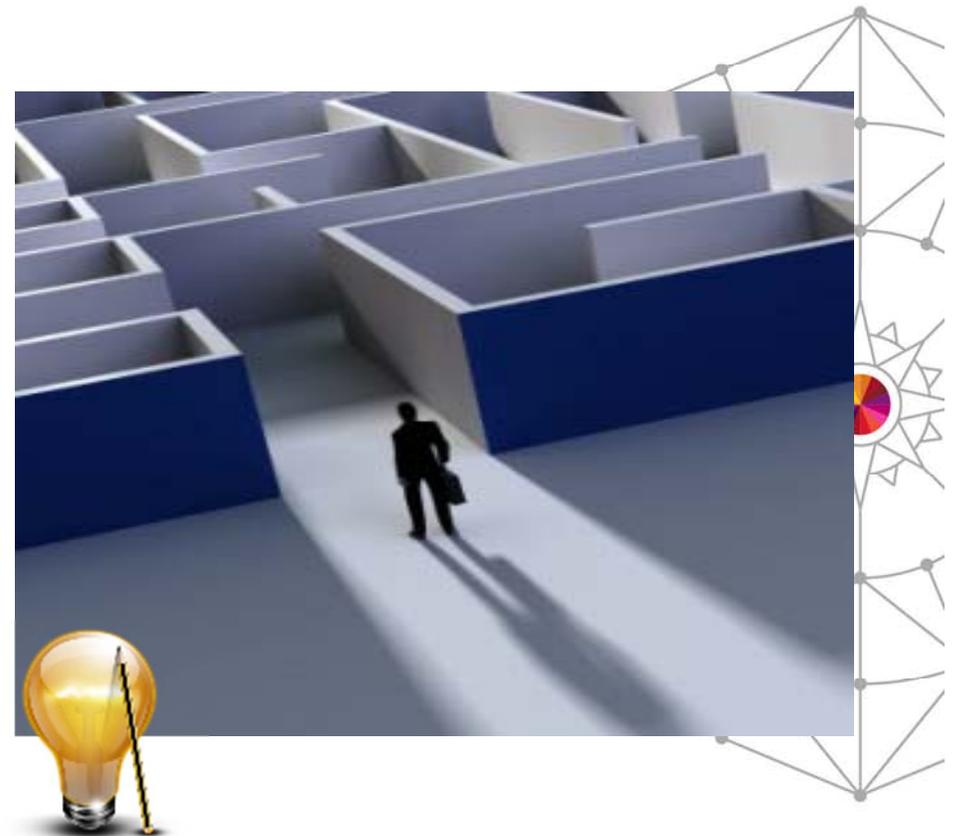
The Need for zIDE Pro

Business Challenges:

- Need for a user-friendly IDE
- Need to increase Performance Efficiency
- Should allow for easy navigation to errors/warnings

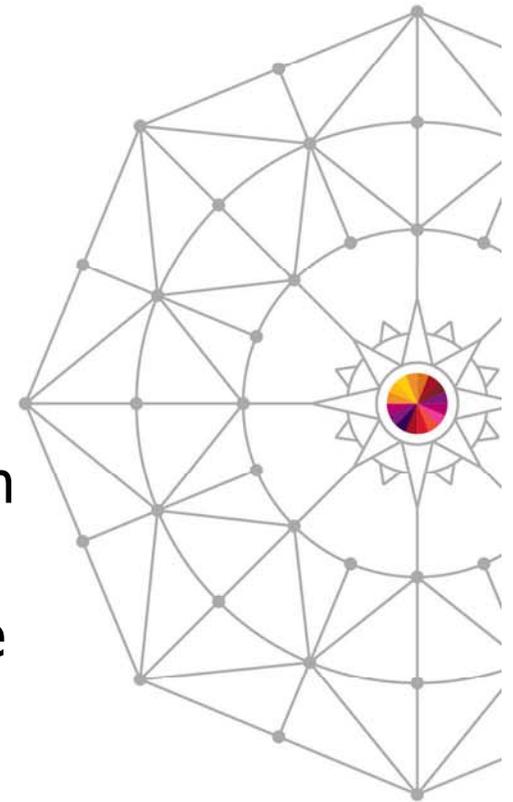
TPF Software's Solution:

- zIDE Pro – A development & management tool for z/OS



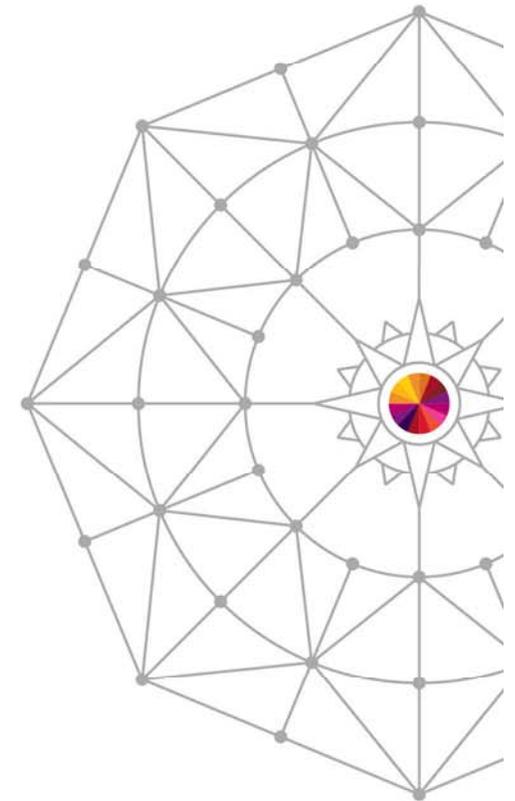
zIDE Pro Overview

- Development and Management Tool
- Legacy-friendly
- For web-based applications running in z/OS, z/Linux and z/VM platform
- Modern GUI source code editor
 - Includes all the features expected in a modern text editor
 - PLUS syntax highlighting, language help, code outline
 - Allows editing via ISPF/XEDIT-like commands

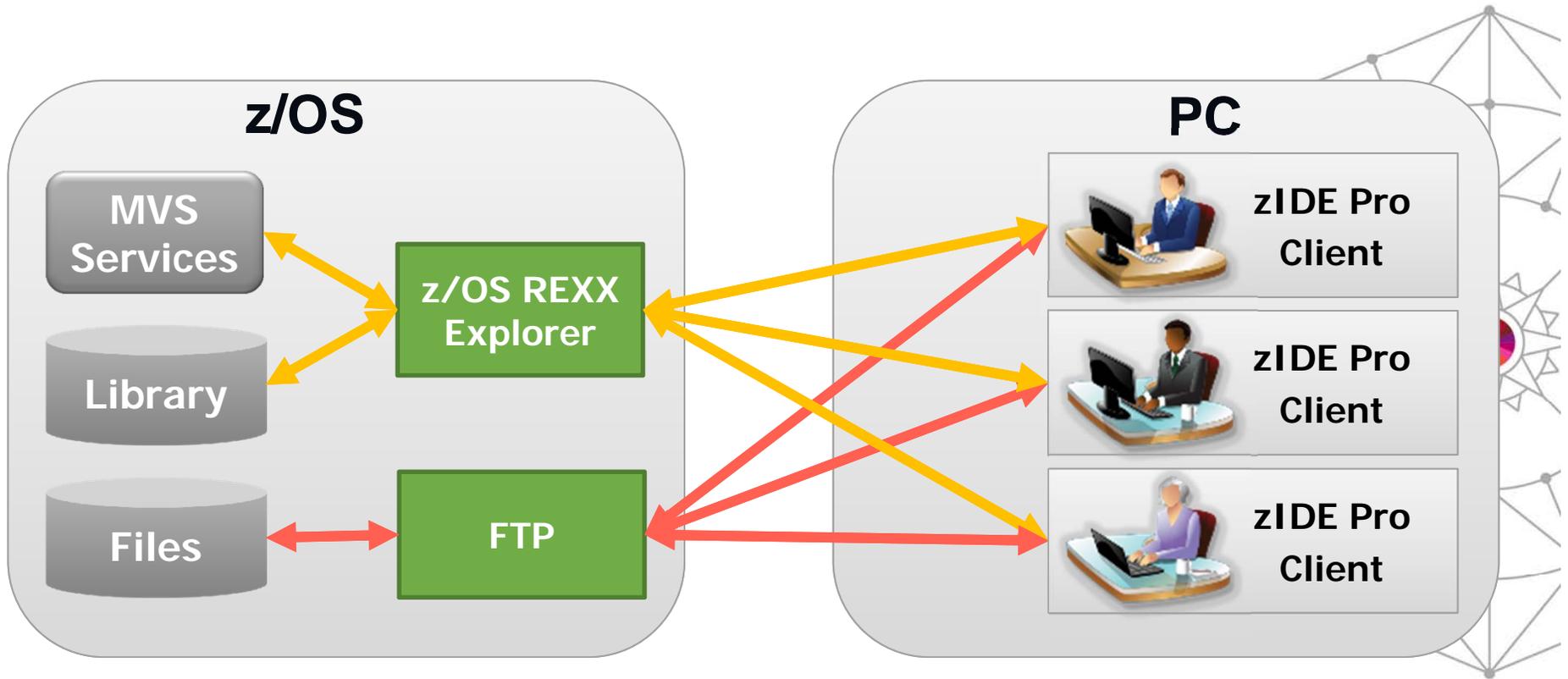


zIDE Pro Overview

- Easy interpretation and navigation to errors/warning
- File Compare utility to compare any two files side-by-side
- Automatic file backup
- Powerful Search for strings in z/OS datasets, USS file system, z/Linux directories, and more
 - Double-click search results to view/edit file
- Single-click Compile/Build and Load to system

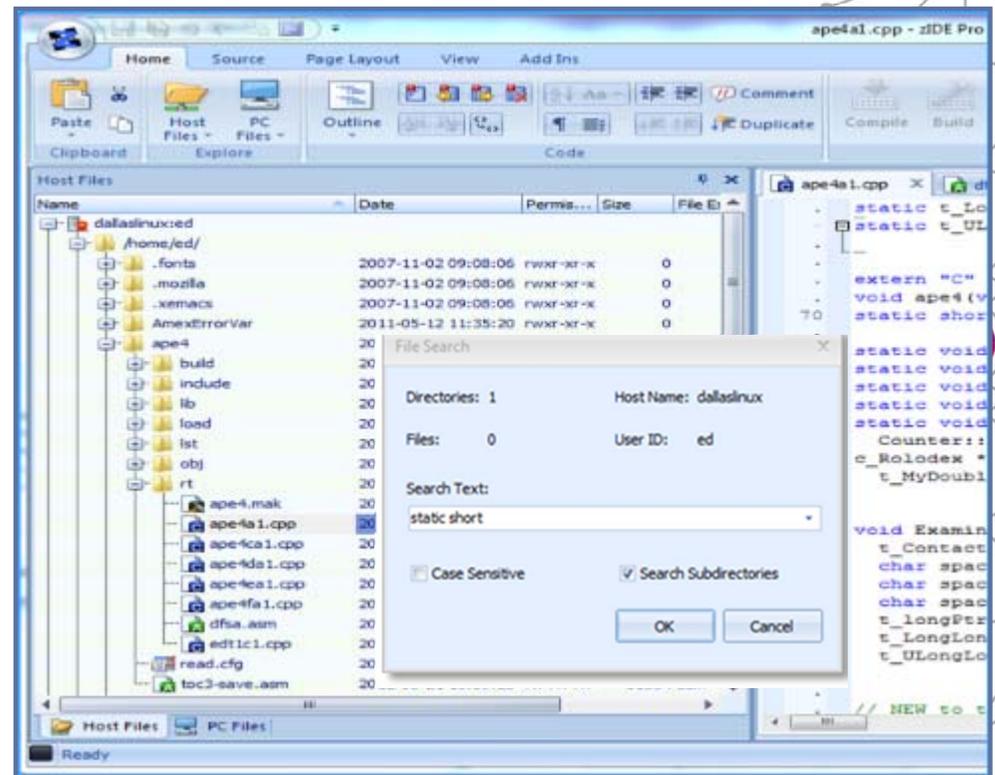


zIDE Pro Architecture



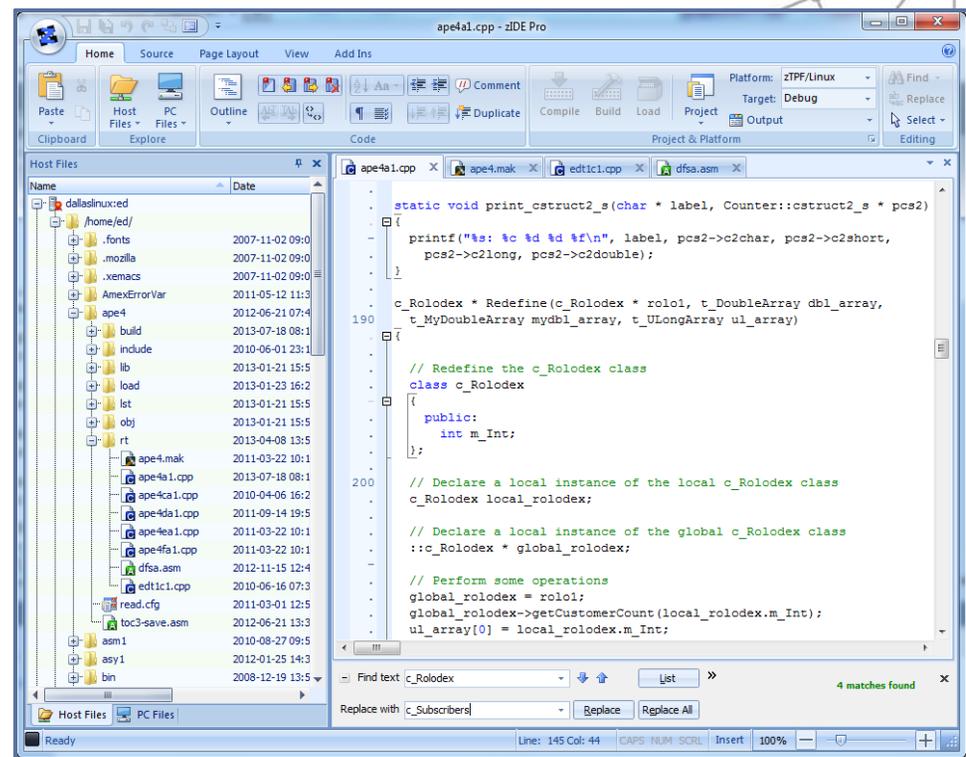
File Management Features

- **Host Files Views** – Browse and access remote host files from multiple hosts in single IDE
- **PC Files Views** – Browse and access local files
- Remote host files can be transparently copied back to host
- **Drag and Drop** ability to transfer files to/from different project folders or PC
- **Powerful Search** of z/OS datasets, USS file system, z/Linux directories, and files locally



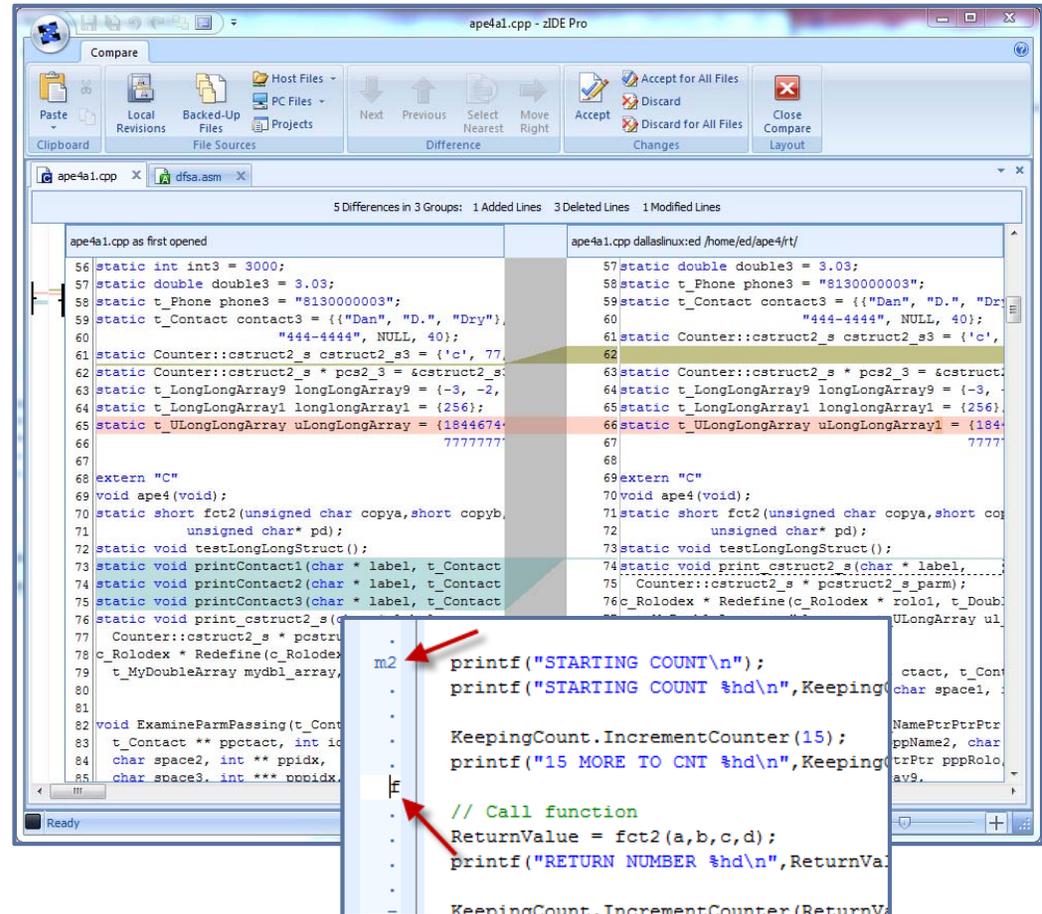
Editing/Coding Features

- **Library Interface & Project Support** integrates with any source control management software to get, edit and promote source
- **Legacy Editing – X-EDIT Editor** function supported
- **Context-Sensitive Language Help**



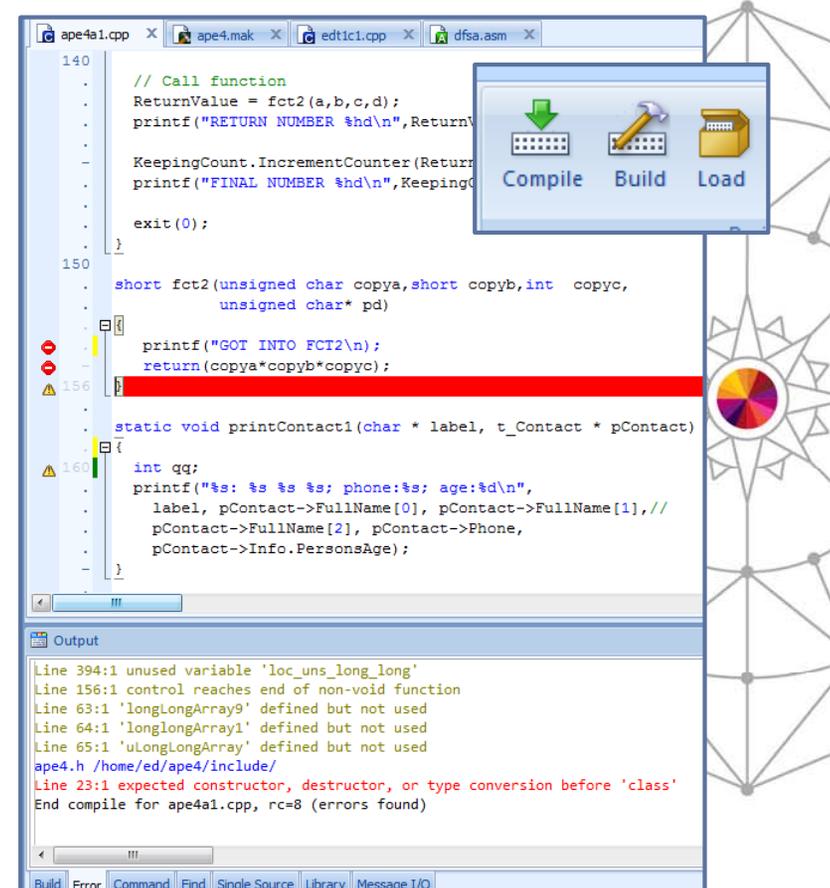
Advanced Editor Features

- **File Compare facility** – Allows you to compare any two files side-by-side, with the difference highlighted in red color
- **Syntax Highlighting** – To detect typographical errors
- **Enable Binary File Editing**
- **Provide Automatic Local Backup**



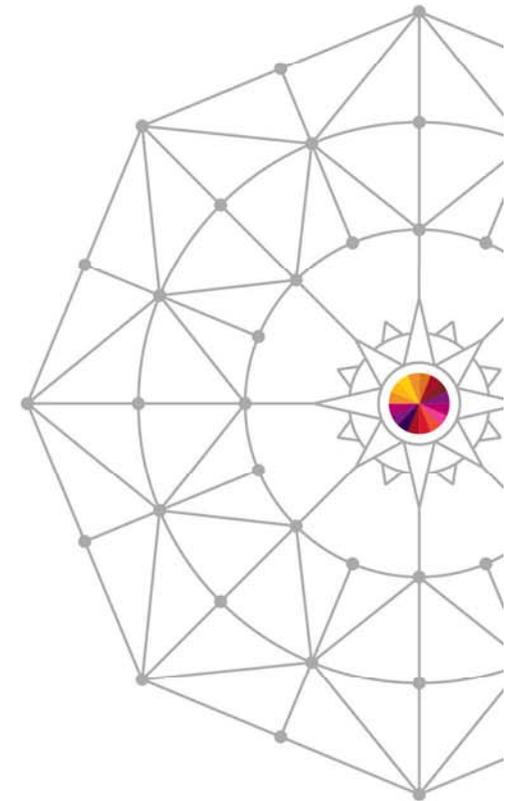
Compile/Build/Load Features

- **Highly intuitive** Compile, Build and Load functions
- **Intelligent compile/build operation**
 - Targets (e.g. DEBUG, PRODUCTION)
 - Automatically detects the correct process and libraries
- **Compiler/Job Output**
 - Color-coded compiler output; displays the compiler errors in different color codes for easy recognition
- **Easy interpretation and navigation to errors and warnings**
 - Double-click errors and warnings in output to automatically open source and navigate to offending source line
- **Ability to look at JES queue**



Key Benefits of zIDE Pro

- **Saves coding time**
 - More familiar GUI interface, especially for newer programmers
 - ISPF/XEDIT-like commands ease transition of power users
 - Easier to detect errors while coding
 - Efficient, intuitive compile/load/build process (buttons)
- **Saves training time**
 - Works like other Windows applications
- **Promotes quality/standards**
 - Middleware component allows to promote company standards and procedures



Prerequisites / Installation

PC



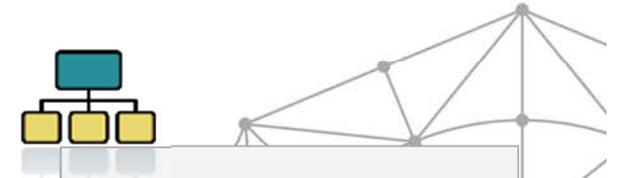
- Windows XP or greater
- 2 MB RAM

z/OS



- Any current version of z/OS
- CPUID
- LOADLIB APF
- Datasets, Catalog and DASDOne reserved SVC number
- RACF rules need to be defined
- TCP/IP port
- Startup procedure (JCL)
- FTP server

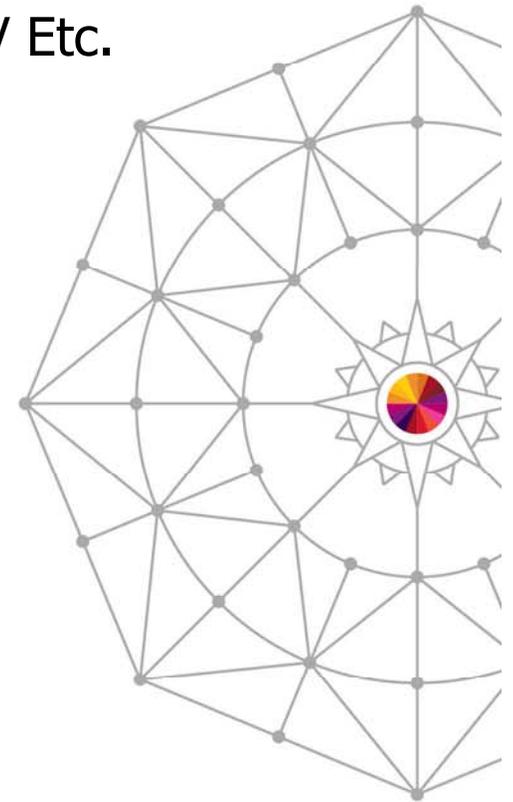
Other



- LAN location or Intranet location to serve PC client updates

And More...

- Plugins for major Library Interfaces like Panvalet, CSV Etc.
- Support for client-side scripting
- Project support



Any Questions



Thank You for your attention....

Contact Us

Exhibition Booth #207

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