



WAVV 2009  
Orlando, FL

## What's New from illustro??



**TCP/IP Men**  
Advisor™  
Diagnosing TCP/IP problems for you.

- ★ Examines traffic in your system to determine normal versus abnormal behavior
- ★ Automatically creates alert conditions based on abnormal traffic or events
- ★ It's like having a TCP/IP Pro on the job 24/7!

**TCP/IP**

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SYSTEMS INTERNATIONAL, LLC  
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## Copy of Presentation → [illustro.com/conferences](http://illustro.com/conferences)

iBrowse

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WAVV2009-2



## What's New from illustro??

- 4 New Announcements since WAVV 2008
  - iManage™ System Managed Services
  - z/IPMon® Release 2.0
  - z/Ware™ Version 2.0
  - iGrandBaby™ 1.0



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## Services Description


- Turn-key, integrated services
  - /MOVE™ - Hardware and software installations and migrations
  - /BUILD™ - Off-site system build and staging
  - /TUNE™ - Performance analysis and tuning
  - /PLAN™ - System capacity planning
  - /HELP™ - Remote system support via network access
  - /RECOVER™ - Disaster recovery planning and testing
  - /CALL™ - Telephone based support
- iManage – Industry's First, "All You Can Eat" Managed Services Offering



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## Services Description

- Industry's First "All-you-can-eat" flat-rate for VSE and VM services
- No limit on support, projects, migrations etc.
- Services performed either remote or on-site at no additional cost
- Monthly management meeting to review progress and set priorities
- 24 x 7 x 365 coverage – no vacations, no holidays
- Use to offload projects, for backup, or for staff augmentation



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# A History of Education

on

# Security

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**YOUR NEWEST HOT SHOT RECRUITS MIGHT BE DOING ALL THE WRONG THINGS... BEHIND YOUR BACK.**

**STOP POTENTIAL LEGAL MATTERS - TRACK INTERNAL DATA ACCESS.**  
Curious and intelligent minds are traits you look for in new hires to help you in your competitive industry, but don't allow those attributes to **destroy the integrity of your business.**

That's where illustro's iKnow™ System Access Audit Appliance using IntelliX™ technology delivers. The iKnow appliance allows you to **capture every single screen passing through your system** so you can **monitor any unauthorized access or use of company data.** Since every screen and keystroke is recorded, you can setup a passive recording capability to **satisfy audit requirements**, even establish a **proactive environment** which notifies you of specific events. Then you can decide if it's being viewed or used correctly.

Know What's Happening™ - Keep an eye on who's eyeing your data.  
Call (866) 4-illustro or visit [illustro.com/eye](http://illustro.com/eye) today.

**EVEN THOUGH YOUR TOP EMPLOYEES HAVE YOUR AUTHORIZATION TO VIEW PERSONAL DATA, THEY MAY BE USING IT AGAINST YOU.**

**REGULATIONS COMPLIANCE CAN BE JEOPARDIZED BY INTERNAL THREAT.**  
Behind every smile, potential disaster awaits. **Compliance with regulations and privacy legislation** including Sarbanes-Oxley, HIPAA and GLBA should have you more than just concerned...you should be **terrified.**

The terror stops here. With illustro's iKnow™ System Access Audit Appliance using IntelliX™ technology, **every mainframe, AS/400 or Web screen passing through your network is captured and archived** to a fully queryable database. Every screen and keystroke is recorded, allowing you to decide if it's being viewed or used correctly.

Know What's Happening™. Put an end to internal threat.  
Call (866) 4-illustro or visit [illustro.com/threat](http://illustro.com/threat) today.

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## System Access Audit Appliance

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Product Description



## Network Security

- Complete, turnkey solution — delivered completely ready to use
- Works with any TCP/IP Stack,
- Works for HTTP (Web), FTP, Telnet and other applications
- Supports SSL 3.0 and TLS 1.0
- Supports encryption algorithms including Triple DES, DES, both AES 128-bit and 256-bit
- RSA certified public/private encryption
- Supports most 3rd Party SSL Certificates (Verisign, etc.)
- Supports self-signed certificates
- Audit log Redundant hardware for maximum reliability
- Dual embedded 10/100/Gigabit NICs – Token-Ring capable
- Live demo available at [illustro.com/icya](http://illustro.com/icya)

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**RSA SECURED**

Product Description

**It's 7:00.**

**Do you know where your backup data is?**

**Scary thought, isn't it?**

Like a child, your precious data needs to be protected at all times, day or night. You have an abundance of critical data that you spend thousands of dollars "keeping safe" within your mainframe data center. Can your data fall into the wrong hands, **unencrypted and vulnerable to misuse?**

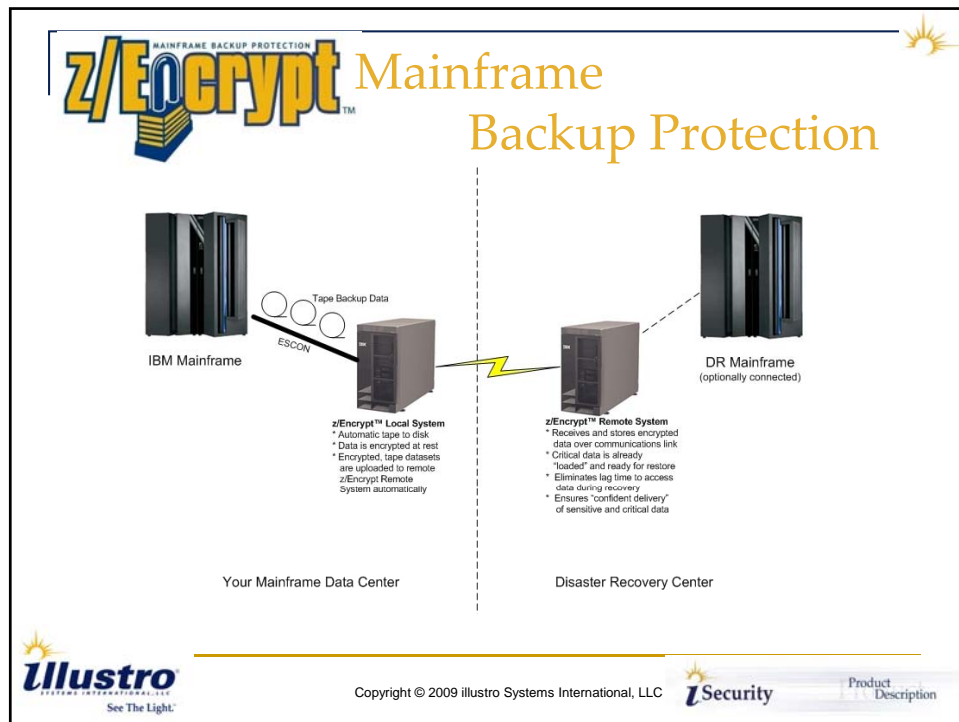
**The safe haven.**

Introducing z/Encrypt™ from illustro. z/Encrypt is an end-to-end solution that delivers secure, encrypted backup storage and transmission for your mainframe backup data.

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Product Description





## Exciting News for VSE Users!!

- New software aimed at easing the pain
- De
- gr
- Ex
- Re
- interface

**z/TPMON®**  
SEE WHAT YOU'VE BEEN MISSING.™



New Release  
2.0

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- Comprehensive monitoring tool for TCP/IP for VSE – (IBM, BSI or Connectivity)
- Revolutionary interface using AJAX/Web design
  - No 3270 interface
  - Important because *any* network personnel can use
  - First mainframe product in the world to feature *only* a 100% AJAX interface



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- Provides live, dashboard interface for all network activity
- Alert interface for notification of critical events
- Retrospect™ feature replays archived data
- Complete, formatted packet trace facility for diagnostic use
- TCP/IP Command Interface



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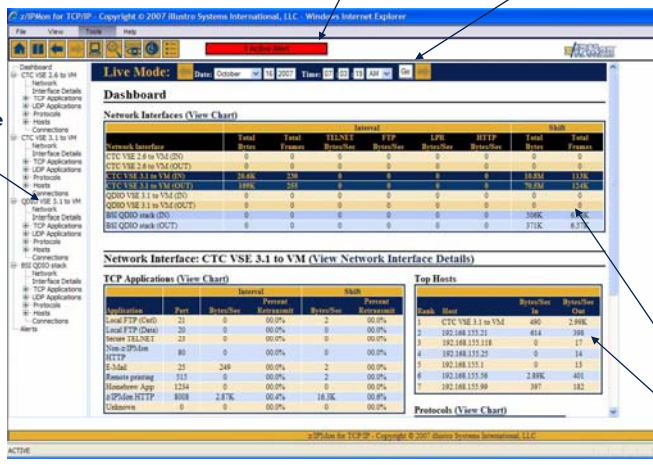



Monitor for Alerts


Time of display  
(live or Retrospect™)


Expandable  
Tree Structure








Drill down  
into any field






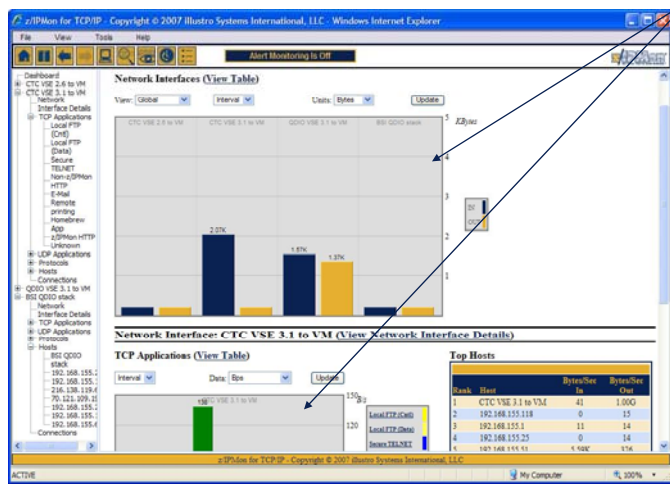
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Most views  
also available  
as graphs









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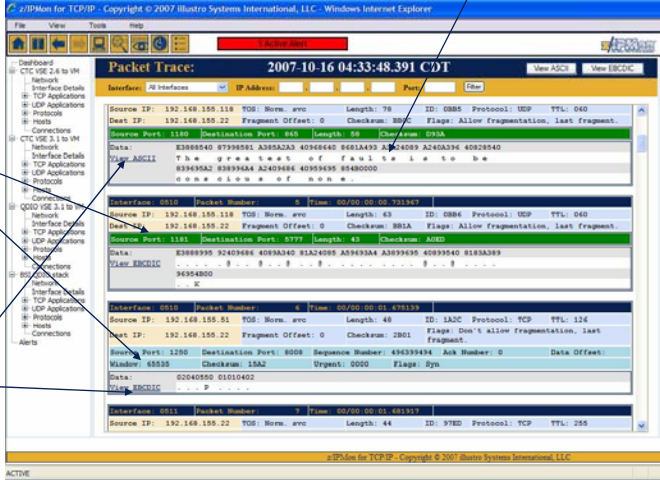






**Color Coded By Message Type (TCP, UDP, ICMP)**

**Show EBCDIC Or ASCII Translation**


**Filterable, Formatted Packet Trace**







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**New Release 2.0**

- Significant New Release less than 1 year after Release 1.0 GA
- New Advisor™ Feature
- New z/IPUtil Report Writer
- Packet Trace Support for Wireshark Output
- Improved Alert Management
- Others!





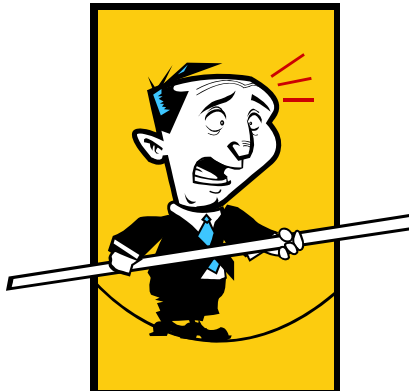
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Live Demo!!



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New Release  
2.0







File View Tools Help

Alert Monitoring is Off 1 Message

Dashboard CSI TCP/IP on QA VSE

**Live Mode:** Date: 09/15/2009 Time: 05:28 PM CST

**Dashboard**

Network Interfaces (View Chart)

Network Interface	Total Bytes	Total Frames	TCP/UDP Bytes/Sec	FTP Bytes/Sec	HTTP Bytes/Sec	Total Bytes	Total Frames
CSI TCP/IP on QA VSE (IN)	5.5K	99	0	0	0	48K	8.7%
CSI TCP/IP on QA VSE (OUT)	102K	165	0	0	2	56.7M	95.6%

Network Interface: CSI TCP/IP on QA VSE (View Network Interface Details)

TCP Applications (View Chart)

Application	Port	Total Bytes	Total Frames	Percent Bytes/Sec	Percent Frames/Sec
Telnet	23	0	0	0.0%	2
FTP (Ctrl)	21	0	0	0.0%	213
FTP (Data)	20	0	0	0.0%	0
Non-z/PMon	80	0	0	0.0%	0
HTTP	80	0	0	0.0%	0
Response prioritizing	513	0	0	0.0%	95
z/PMon HTTP	8008	N/A	0.0%	95	20.9%
Unknown	N/A	0	0	0.0%	0

UDP Applications (View Chart)

Application	Port	Total Bytes	Total Frames	Percent Bytes/Sec	Percent Frames/Sec
Quote of the Day	865	0	0	0	0
File & Print Share	137	1	78	1.44K	112K
ICMP Ping	7	0	0	39	1.13K
Unknown	n	n	n	n	n

Top Hosts

Rank	Host	Total Bytes	Bytes Per Second
1	CSI TCP/IP on QA VSE	4.83K	4.83K
2	192.168.155.1	78	N/A
3	192.168.155.80	0	0
4	192.168.155.3	0	0
5	192.168.155.57	0	0
6	192.168.155.103	0	0
7	192.168.155.59	4.83K	4.83K

Protocols (View Chart)

Protocol	Total Bytes	Total Frames
TCP	1.42K	6
UDP	1	0
ICMP	0	0

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**New Release 2.0**

File View Tools Help

Alert Monitoring is Off 1 Message

**Advisor Mode:**

To begin Advisor Mode, please select at least one range over which to analyze network data. To select a range, choose a date and time for the start and end of the range and click "Add to Range List".

**Start Range**  
May, 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5
6	7	8	9	10	11	12

Times: 01:1 27:1 28:1 29:1 30:1 31:1 00:1

Select date

**End Range**  
May, 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5
6	7	8	9	10	11	12

Times: 12:1 13:1 14:1 15:1 16:1 17:1 18:1


Select date

Add to Range List


**Ranges to Analyze**


Start	End	Unit
May 11, 2009 1:29 PM	May 13, 2009 12:27 PM	HR

Create Alert Group: ADVISOR





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**New Release 2.0**

File View Tools Help

Alert Monitoring is Off 3 Messages

**Live Mode:**

Dashboard

Network Interfaces (View Table)

View: Global Units: Bytes Updates

CSI TCP/IP on QA VSE



100,000

80

60


40

20

0

Network Interface: CSI TCP/IP on QA VSE (View Network Interface Details)

TCP Applications (View Chart)					Top Hosts	
Application	Port	Interval	Percent Extra	Percent Extra	Rank	Host
HTTP	80	0	0.0%	2	1	CSI TCP/IP on QA VSE



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**z/PMon**  
SEE WHAT YOU'VE BEEN MISSING.™

**New Release 2.0**

Alert Monitoring is Off 3 Messages

Live Mode: Date: May 15 2009 Time: 05:24 PM PST Go

**Current Messages**

Time	Message	Severity	Remove
2009-05-18 21:22:33 CST	ZIPADV11871 - 30 Packet trace session exported successfully to system.pcap	Informational	<input type="checkbox"/>
2009-05-18 21:34:50 CST	ZIPADV11711 - Alert group ADVTHOR expires.	Informational	<input type="checkbox"/>
2009-05-18 21:34:50 CST	ZIPADV12021 - ZIPADV session closing.	Informational	<input type="checkbox"/>

Remove Selected

Retains in Dashboard

Messages Console Shows Advisor Status

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**z/PMon**  
SEE WHAT YOU'VE BEEN MISSING.™

**New Release 2.0**

Alert Monitoring is Off 3 Messages

Alert Settings: Manage Alert Group: ADVTHOR Edit Create

Alerts by Interface

Alert Type: TCP-Related Alerts Alert Variable: TCP total bytes per sec (I=O) Hide

Comparison: Interface: Time Period: Interval

Threshold: Email Alert To: Add to Alert List

TCP total bytes / second (I=O) (interval) greater than 153 for interface CSI TCP/IP on QA VSE Edit Delete

Connections reset by one host (interval) greater than 0 for interface CSI TCP/IP on QA VSE Edit Delete

Connections reset by this sys (interval) greater than 0 for interface CSI TCP/IP on QA VSE Edit Delete

Percent retransmit by this sys (interval) greater than 0.4% for interface CSI TCP/IP on QA VSE Edit Delete

UDP datagrams/sec to this sys (interval) greater than 0 for interface CSI TCP/IP on QA VSE Edit Delete

Interface Status Alerts

Interface: Comparison: Status: Email Alert To: Add to Alert List

Interface CSI TCP/IP on QA VSE with status not equal to ACTIVE Edit Delete

Alerts by IP Address

Alert Variable: Total bytes Comparison: Interface:

Advisor Generated Alerts

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**New Release 2.0**



**Packet Tracer:** Start Time 05/13/2009 03:21:19.178 CST

Interface	IP Address	Port	Filter	Wireshark
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <b>Wireshark Trace</b>  Port: <input type="text"/>  IP Address: <input type="text"/>  Interface: <input type="text"/>  Cancel Get Wireshark Packet Trace </div>				




**Retrieve z/IPMon Trace for Wireshark**


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**New Release 2.0**



**Packet Tracer:** Start Time 05/13/2009 03:21:19.178 CST

Interface	IP Address	Port	Filter	Wireshark
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <b>File Download</b>  Do you want to open or save this file?  Name: zpmmon.pcap  Type: Wireshark file  From: 192.168.105.120  Open Save Cancel </div>				



**Click to open Wireshark**

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**z/IPMon Trace in Wireshark**



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- Hands-on demo at the illustro booth
- Release 1.1 GA for 8 months
- Release 2.0 entering Beta Status
- Live Demo of REAL software from Web site
- Video Demo, much more all at

<http://zipmon.com>



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# illustro's Internet-enabling Software

The diagram illustrates a network architecture. A large oval labeled "z/WARE" at the top and bottom contains three components: "z/WEB HOST", "z/WEB SERVER", and "z/XML HOST".

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# IT'S OKAY TO TALK TO STRANGERS

Three cartoon characters representing the software components are shown. On the left is a character for "z/WEB HOST", in the middle is a character for "z/WEB SERVER", and on the right is a character for "z/XML HOST". They are all smiling and standing next to a large "z/XML HOST" logo.

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illustro's Internet-enabling Software...


z/Ware

z/WEB  
SERVER™


z/XML  
HOST™

z/WEB  
HOST™

z/Ware

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KICK ME.

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Just as Mr. Schultz here, if you continue to use the old z/OS interface, you might need to find a job and a permanent market. Yet z/OS screens make you use a "think" you are using outdated technology. They expect an up-to-date interface as they just might take their business elsewhere. So if you can't transform your z/OS so we can quickly you're going to need to buy so many tables and chairs.

Web/zWeb-Host™ you can transform any z/OS application into a rich, Web-based interface that anyone can access and understand without training. And as the **first solution to deliver AJAX support** for mainframe applications, zWeb-Host can even transform your interfaces so they function like a Windows application or a Web browser.

Avoid spending too long in execution. Stop by visit [illustro.com/caniboard](http://illustro.com/caniboard) today and experience a few days of the zWeb-Host™ team build a prototype of one of your applications absolutely FREE...with air and meals!

See The Light.™

Call-free U.S. and Canada 866-4illustro (866-415-5878) • phone +1 214-800-8900  
illustro.com

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## z/Ware Version 2.0 Preview

WAVV 2009

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[carney@illustro.com](mailto:carney@illustro.com)

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## Our Vision for Version 2



- Open up the mainframe data to new request types and request sources
  - Expand z/Ware to support more than 3270 online applications
  - Accept requests from sources other than browsers and off-platform programs
- Redesign the system to more easily accept new features and functions



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## z/Ware Common Components Infrastructure (ZWC)

- Common support services split from previous product code to create a new infrastructure that can support multiple products
- Allows multiple products to run in a single address space
- Simplifies the code of each product
- Multiple products receive benefit of support and enhancement



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## ZWC

### ■ Services

- Multi-tasking workflow management
- Communications management
  - Message routing, logging, storing, retrieval
  - Operator commands
- Operating system interfaces
- Storage management
- Dump/trace management
- 3270 session management
- Variable/value management



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## ZWC...

### ■ Services

- Document management
- File and Library management
  - Read/write/caching
- HTTP Server
  - HTML & XML support
  - Static document serving
  - CGI program execution
  - Web services (SOAP) support



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## ZWC...

```

SYSTEM: z/VSE          z/VSE 3.1          TURBO (01)          USER: SYS
VM USER ID:ZVSEL
W4-0179 Enter z/Ware command:
179 id
W4 0178 ZWCSC29T z/Ware Common 1.1.0A 01/19/09 ZAI10000 02/15/2009 No Limit
PD0000017490 0001
W4-0179 Enter z/Ware command:
179 disp conn
W4 0178 ZWCSC80I Current connections:      1 /      1 Max:      1 /      1
W4 0178 ZWCSC77I *----- Origin -----* *--- Destination ---* Term LU  Connect
W4 0178 ZWCSC78I 000.000.000.000:00000 168.254.254.124:00023      01/29/09
10:52
W4-0179 Enter z/Ware command:

==>

1=HLP 2=CFY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD      12=RTRV
ACT_MSG: HOLDRUN          PAUSE: 01  SCROLL: 1          MODE:  CONSOLE
    
```



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## z/Ware Product Functions Combined

- z/Web-Host Version 2 performs the functions previously handled by z/XML-Host
  - Supports XML templates in addition to HTML
  - Support Web Services (SOAP) requests and responses



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## Enhanced Script Facilities

- Statements previously used with the Application Automation Facility (AAF) within a WebScreen definition, are now referred to as Scripts
- Expanded to a more feature rich scripting facility
- Can be used in places other than a WebScreen



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## Enhanced Script Facilities...

- Many new facilities in Version 2 use new script statements to perform important functions
- Many of the old statements have been expanded to work with new facilities
  - If
  - Assign



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## Execution of Named Scripts

- A new facility called Named Scripts allows execution of stand alone scripts
  - Script statements stored in a library member and defined to the system with a script name
  - Not associated with a 3270 session
  - Requested from web page or off-platform program with any desired user variables
  - Use any available scripting facility
  - Requests can be one-time or persistent



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## Execution of Named Scripts

```

Process  View  Options  Help
.....
DITTO/ESA for VSE          LE - Library Member Edit
.....
Member DEMO1.SCRIPT      Library ACSLIB1.MAIN      Col 1      Format CHAR
                               SYSIPT data NO
1...5...10...5...20...5...30...5...40...5...50...5...60...5...70...
00000 **** Top of data ****
00001 *
00002 :SCRIPT: Script to execute a CICS COMMAREA program
00003 *       to display a loan record.
00004 *
00005   Script_Name  CIC82
00006 *
00007 * Create a COMMAREA & define some fields in it
00008 *
00009 COMMAREA Create MyCA1 200
00010 Map_COMMAREA_Field MyCA1 VSAM_record      0 80
00011 Map_COMMAREA_Field MyCA1 rec_stat         0 1
00012 Map_COMMAREA_Field MyCA1 rec_acct         1 4
00013 Map_COMMAREA_Field MyCA1 rec_name         5 20
00014 Map_COMMAREA_Field MyCA1 rec_rate        25 5
00015 Map_COMMAREA_Field MyCA1 rec_months       30 4
00016 Map_COMMAREA_Field MyCA1 rec_amount       34 10
00017 Map_COMMAREA_Field MyCA1 rec_comment     44 20
00018 Map_COMMAREA_Field MyCA1 saved_record    80 80
00019 Map_COMMAREA_Field MyCA1 return_code     160 1
00020 *

Command ==>
F1=Help  F2=SplitJoin  F3=Save+Exit  F4=Left  F5=Right  F6=RFind  F7=Bkwd
F8=Fwd   F10=RChange  F11=CRetrieve  F12=Quit
    
```



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## The Document Facility

- The Document script statement is used to create and delete user documents
- Documents are created from templates stored in library members
- Substitution of user variable values within the template
- Templates can contain HTML, XML or any desired text format
- Documents can be returned to the requestor, placed in a COMMAREA or used for other (future) purposes



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## The Document Facility...

```

Process  View  Options  Help
-----
DITTO/ESA for VSE          LE - Library Member Edit

Member DEMO2.WEBSR      Library ACSLIB1.MAIN      Col 1      Format CHAR
                                SYSIPT data NO
1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...
00000 **** Top of data ****
00001 *
00002 ::SCREEN:: Screen Definition
00003 *
00004   Screen_Name  Trans_Menu
00005   Screen_DATA  Row 1  Column 2  String IESADMSL.IESECICA
00006 *
00007   Assign !ZWH-compound1 "compound var 1 value"
00008   Assign !ZWH-compound2 "compound var 2 value"
00009 *
00010 Document Create My_Doc1 -
00011   Template doctempl.doc -
00012   Encoding EBCDIC -
00013   RECFM V -
00014   CRLF
00015 +
00016   Assign !ZWH-tstvar4 document My_Doc1 var_value_2
00017   Assign !ZWH-tstvar5 document My_Doc1 var_value_2
00018 *
00019   Assign !ZWH-cust.# document My_Doc1 customer_name
00020 *

Command ==>
F1=Help  F2=SplitJoin  F3=Save+Exit  F4=Left  F5=Right  F6=RFind  F7=Bkwd
F8=Fwd   F10=RChange  F11=CRetrieve  F12=Quit

```



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## Executing CICS COMMAREA Programs

- Script statements can be used to:
  - Create named CICS COMMAREA buffers
  - Map data fields within the COMMAREA
  - Insert required data into the COMMAREA
  - Request execution of a CICS program passing the COMMAREA
  - Extract data from returned COMMAREA
  - Create a user Document with returned data



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## Executing CICS COMMAREA Programs

- Multiple CICS regions can be defined and requests directed to desired region
  - Can use
    - Generic or specific CICS connection
    - Any desired mirror transaction id
    - Any desired userid
- Persistent Script requests can be used to perform multiple requests using the same data items



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## Executing CICS COMMAREA Programs

```

Process  View  Options  Help
.....
DITTO/ESA for VSE          LE - Library Member Edit

Member DEMO1.SCRIPT      Library ACSLIB1.MAIN      Col 1      Format CHAR
                        SYSIPT data NO
1...5...10...5...20...5...30...5...40...5...50...5...60...5...70...
00020 *
00021 * Put some input data into the COMMAREA
00022 *
00023 COMMAREA_output MyCA1 rec_stat 'I'
00024 COMMAREA_output MyCA1 rec_acct 12WH-inq_acct(1,4)
00025 *
00026 * Run the CICS program in CICS region named CICS_PROD
00027 *
00028 Exec_CICS_Program CICSVP03 -
00029 CICS CICS_PROD -
00030 COMMAREA MyCA1 -
00031 USER CFA1
00032 *
00033 * Extract data from returned COMMAREA
00034 *
00035 Assign 12WH-curr_acct COMMAREA MyCA1 rec_acct
00036 Assign 12WH-curr_name COMMAREA MyCA1 rec_name
00037 Assign 12WH-curr_rate COMMAREA MyCA1 rec_rate
00038 Assign 12WH-curr_months COMMAREA MyCA1 rec_months
00039 Assign 12WH-curr_amount COMMAREA MyCA1 rec_amount
00040 *

Command ==>
F1=Help F2=SplitJoin F3=Save+Exit F4=Left F5=Right F6=RFind F7=Bkwd
F8=Fwd F10=RChange F11=CRetrieve F12=Quit
    
```



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## CICS COMMAREA Events

- A COMMAREA Event is triggered by a user CICS program passing a COMMAREA to a z/Web-Host CICS program
  - The COMMAREA data is matched against the defined COMMAREA event definitions
  - Script statements from the matching COMMAREA Event are executed
  - Updated COMMAREA is returned to original program



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## CICS COMMAREA Events

```

Process  View  Options  Help
-----
DITTO/ESA for VSE      LE - Library Member Edit

Member DEMO3.WEBCA      Library ACSLIB1.MAIN      Col 1      Format CHAR
                        SYSIPT data No
1...5...10...5...20...5...30...5...40...5...50...5...60...5...70...
UUUUU **** Top of data ****
00001 *
00002 ::COMMAREA:: COMMAREA
00003 *
00004 COMMAREA_Name MyCA2
00005 COMMAREA_DATA OFFSET 100 String TSTCOMMAREA
00006 *
00007 If IZWH-var1 = "var1"
00008     Assign IZWH-var1 COMMAREA MyCA2 8 20
00009 Else
00010     Assign IZWH-var1 COMMAREA MyCA2 99 20
00011 End If
00012 COMMAREA_Output * 400 20 IZWH-var1
00013 COMMAREA_Output * 000 20 "Updated COMMAREA "
00014 Exit
00015 *
00016 **** End of data ****

Command ==>
F1=Help  F2=SplitJoin  F3=Save+Exit  F4=Left  F5=Right  F6=RFind  F7=Bkwd
F8=Fwd   F10=RChange  F11=CRetrieve  F12=Quit
    
```



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## Wrap Up

- Much more is planned for future releases of Version 2
- Currently in limited Beta status – looking for good candidates to test



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