





Founded 1986 OutsideView™

Leading Desktop-to-NonStop

Connectivity software

- Corporate Standard for host connectivity
- Ships with every new console
- Data Transport Security (NSSL) Provider to NED



We Provide

More Than Emulation

Multiple Solutions:

Host Connectivity

Data Transport Security

Application Modernization







OutsideView 7.3

Major Changes

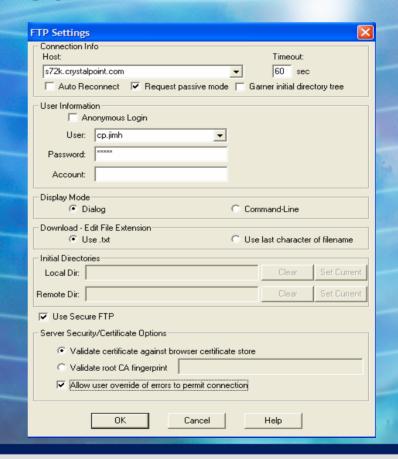
- SSL for FTP (& Telnet)
- Seamless Guardian/OSS
- Text Editing Enhancements
- 3270E Enhanced Mode





SSL-secured FTP

- Easy to use, configure
- Wizard to import Server certificates to local PC
- Complements host-side SSL capability (NSSL)

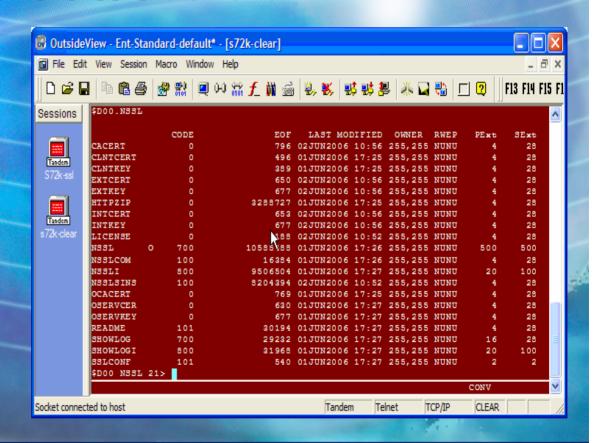






Seamless OSS/Guardian

- Navigates across
 Guardian and OSS
 File systems
- Supports UNIX Sub-Mode within 6530 Emulation
 - Via TERMINFO or TERMCAP file
- Transparently Use Editors and Utilities







Enhanced Text Selection Function

- Copy
- **Paste**

Log



Copy to Clipboard Copy to Printer

Text Selection

Paste

Log Incoming to File...



Save Session...

Save Session As...

Close Session

Edit Session Caption...



👭 Session Settings...

Select/Screen

Select/All

Select/Start of buffer to host cursor

Select/Host cursor to end of buffer

Select/Screen with status line

Select/All with status line

Select/Status line

Block mode





3270E Enhanced Mode

- Widely used in IBM systems
- Strengthens
 OutsideView as
 corporate standard for
 terminal emulation

TN3270

Model

Model 2

Model 3

Model 4

Model 5

Model 5

Model 5

Telnet Term Type

3278

3279

Telnet Term Type

3278

3279

Finhanced Terminal





OutsideView Enterprise Mode

One-To-Many Administration







Centralized Administration

Designed for Large or Complex Environments

- Profiles
- Permissions
- Citrix
- License Pools

- Configurations
- Roaming Users
- Win Terminal Servers
- Auto-Update





OutsideView Multiple Licensing Models

- Standard Desktop
- •Enterprise:
 - -Per Seat
 - -Concurrent
 (Automatic License Check-In)
 - ü License vs. User Tracking





Automated Licensing Administration

Concurrent

- Automatic License Release when OutsideView Exits
- Install Unlimited Number of Workstations
- Usage "throttled" Through Number of Available Licenses
- Citrix/WinTerm Support





OutsideView Enterprise

License View Concurrent License Pool

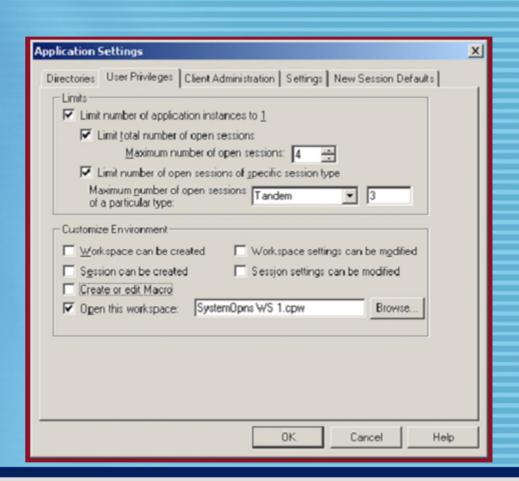






Network Based

Centralized Dynamic User Permission Sets (per profile)







With SSL-secured communications, plus centralized control over user privileges and configurations, OutsideView Enterprise provides a complete operational solution

- Sture Larssen, EDS (Saab)







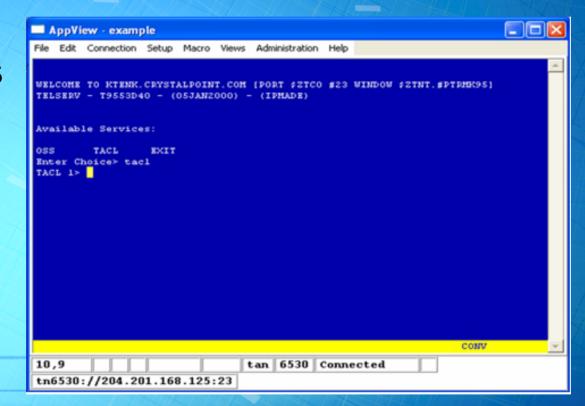




More Accessible Emulation

Multiple Types

- NonStop 6530
- IBM 5250
- IBM 3270
- DEC VT







New! Release 1.3

Major Features

- End-to-End Encryption
 - HTTPS (SSL) to Web Server
 - Web Server to Host Via Tunneling
 - Multiple Tunneling Protocols; SSL, SSH2, Telnet
- Seamless OSS/Guardian
 - Automatic Environment Recognition via TermCap andTermInfo
- Log to File / Log to Printer



Data Transport Security

Def. end-to-end encryption

Continuous protection of the confidentiality and integrity of transmitted information by encrypting it at the origin and decrypting at its destination.





NSSL Product Suite

- 1. Secure Telnet
- 2. Secure FTP
- 3. Middleware
- 4. Expand
- 5. MQ-Series





NSSL Product Suite

- Server program for the NonStop Guardian environment
- SSL encryption for various communications protocols
- Products can be installed and implemented in common





Server Authentication

Provided via the public key infrastructure (PKI) standard

Server Certificates

Signed by trusted third-party certificate authorities (e.g. Verisign®)

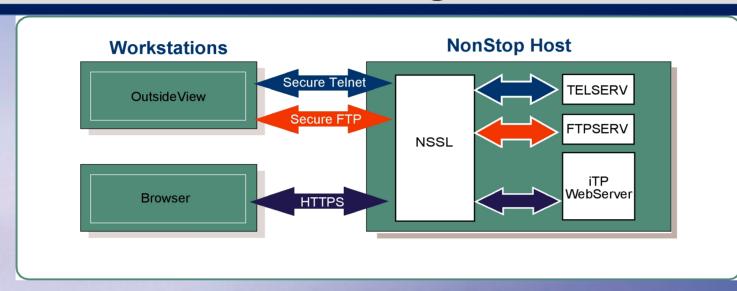
Tools

- Included lightweight HTTP server process
- Create both server and certificate authority (CA) certificates





NSSL Functional Diagram



- One or more instances of NSSL, in various modes, accept SSL data on designated port
- Data is decrypted and forwarded to the target socket, using defined protocol. Process is reversed, out bound





NSSL System Requirements

HP NonStop host

- D.45 or later
- Qualified on Integrity NonStop systems

Secure Telnet sessions

- OutsideView 7.2+
- Or any SSL 3.0 or TLS 1.0 compliant telnet client

Browser HTTP access

HTTP 1.0 compliant browser

Secure FTP sessions

- OutsideView 7.3+
- Or any RFC-2228 compliant FTP client or server.





Cipher Suites Supported

Cipher Suite Support		
	OutsideView	NSSL NonStop SSL
MD5 Digest Only	V	
SHA Digest Only	V	
RC2 40-bit with MD5 Digest	V	
DES 40-bit with SHA Digest	V	
DES 128-bit with SHA Digest	V	
RC4 40-bit with MD5 Digest	V	
RC4 128-bit with MD5 Digest	V	~
RC4 128-bit with SHA Digest	V	V
Triple-DES with SHA Digest	V	V
AES 128-bit with SHA Digest	V	V
AES 256-bit with SHA Digest	V	V





NonStop Secure SHell (NSSH)

- NSSH_FTP: Secure file transfer to/from other platforms using SFTP and FTP port forwarding
- NSSH_SecurSH: Enables remote SSH clients to execute commands (OSS or TACL) on the NonStop. Provides an SSH client for the NonStop server; providing command execution and full shell access to an SSH-enabled remote system.
- NSSH_PseudoTerminal: Pseudo terminal support (including OSS) for running full screen terminal applications such as VI or EMACS



Application Modernization

Maximizing the Value of Your Legacy System





Legacy Dilemma

- Perceived as Primitive
- Expensive to Maintain
- Need for Wider User Access
- High Cost Effort Risk to Replace



Legacy Dilemma

- Proven, Time-tested Solutions
- Supporting the Core Enterprise
- Capture 75% of World's Data
- Huge Intellectual and Financial Asset



Legacy Dilemma Options

Remain

- Easiest Option
- Short Term

Renew

- Leverages Investment
- Intermediate Term

Rewrite

- Reduced Leverage
- Difficult Business Case

Replace

- Packaged Solution
- Often "Good Enough" at Best





AppViewXS provides technology to upgrade and modernize legacy applications without having to rewrite (or reprogram) in order to take advantage of current technologies.





Capabilities

Web-Enable

Secure

Transform

Extend

Integrate





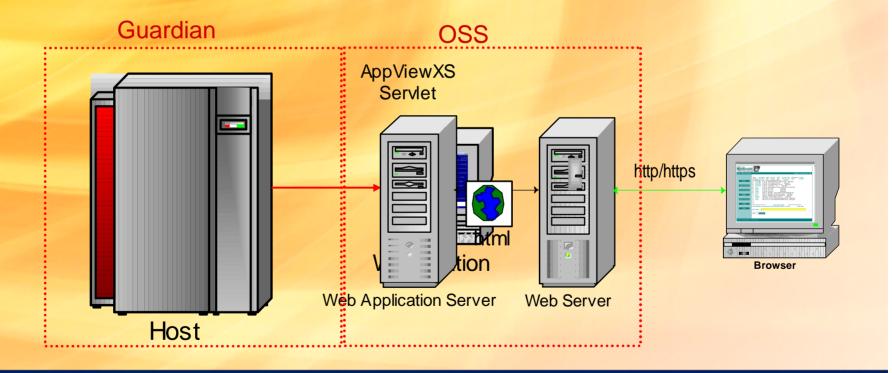
AppViewXS Web-Enabling

- Middleware Abstraction Layer
- Acts on Data Stream 'Downstream'
- Transparent to Host, Application
- Patented On-the-fly Transformation to GUI
- Global HTML Template





AppViewXS Web-Enabling Architecture







Architectural Advantages Highly Deployable

- No Host Code Changes
- Standard (Secure) Java Portal
- Thin-client (Browser-based) Access
- Qualified on Multiple Web Platforms
- Rapid Implementation





Capabilities

Web-Enable

Secure

Transform

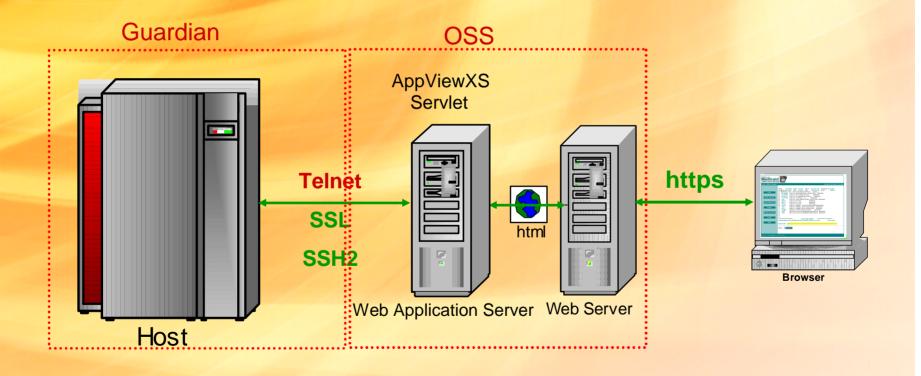
Extend

Integrate





End-to-End Secure







Capabilities

Web-Enable

Secure

Transform

Extend

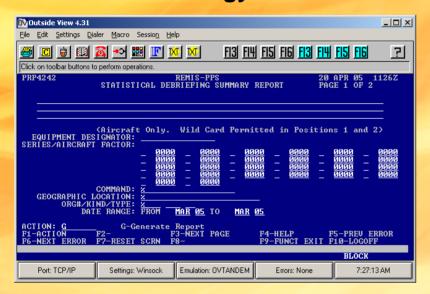
Integrate

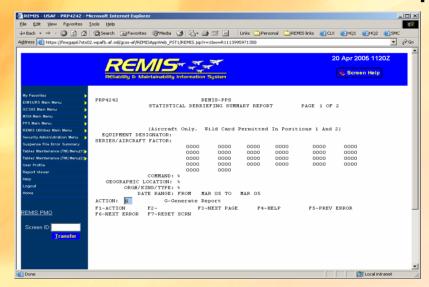




Transform

Patented technology - Automatic GUI Transformation - Global HTML 'Template'









Capabilities

Web-Enable

Secure

Transform

Extend

Integrate





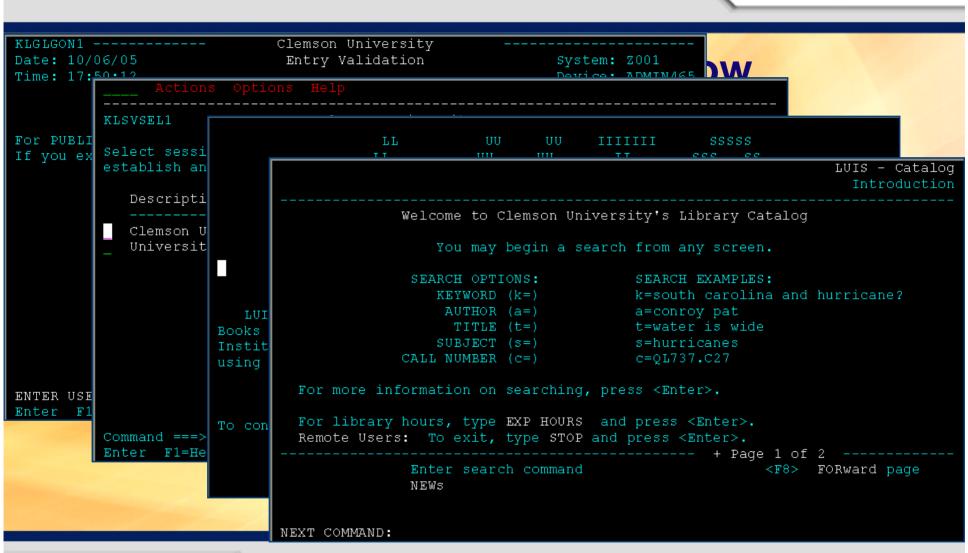
Extend

- Create "Smart" Screens
 - Graphical, Drag-and-Drop Studio
 - No Programming Required
 - Editable HTML
- "Smart" Screens for Host Screens
- "Smart" Screens as Processing Layer



Application Modernization









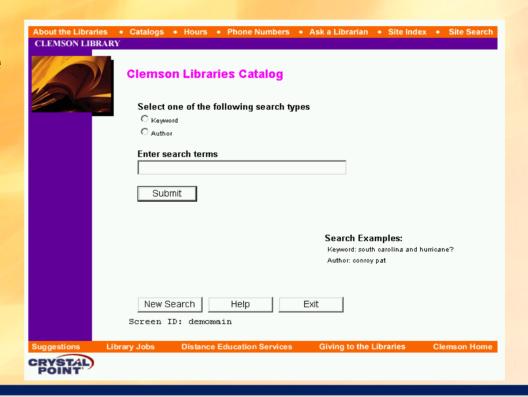
Example

Global Template

- HTML Screen Envelope
- Modifiable

Host Screens

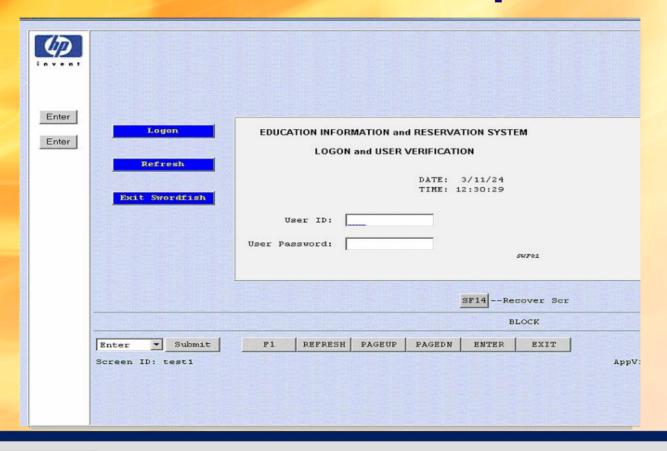
- Embedded
- Modified
 - •Get-to-the-Point
 - GUI objects







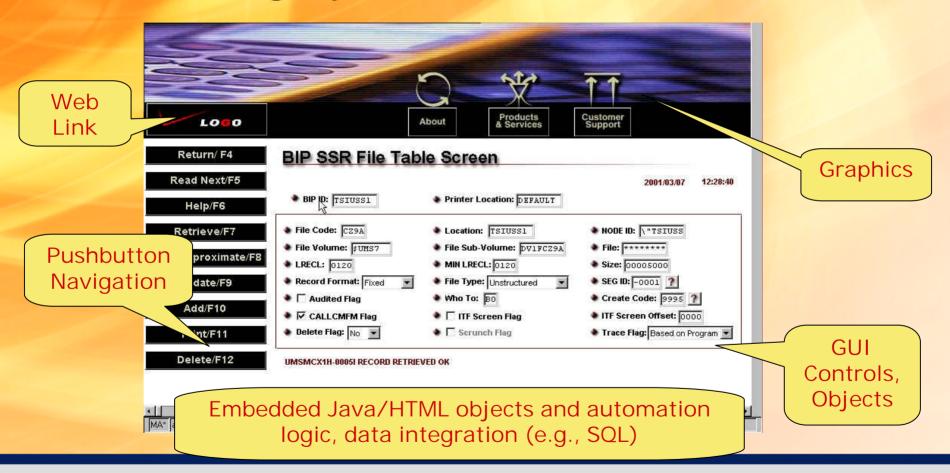
Smart Screen Development







Extended Legacy Screen becomes a Smart Screen







Example

Medicaid MMIS Online Services	
Home Help Log Out	Tuesday, November 16, 2004
	TELNET
Page Forward	ELECTRONIC DATA SYSTEMS CORPORATION DALLAS, TEXAS Use of the network is restricted to authorized users. User activity is monitored and recorded by system personnel. Anyone using the Network expressly consents to such monitoring and recording. BE ADVISED: if possible criminal activity is detected, system records, along with certain personal information, may be provided to law enforcement officials.
Page Backward	LOGON-ID: NETWORK-ID: PLANO1 DATE: 03/19/04
Update	PASSWORD: PLIPC4C GMT: 17:49:44
	NEW PASSWORD: TERMINAL-ID: VPLT0A08 SECURITY: 972-605-3720 CDRM: MP3019 HEIP: 972-604-5100
Return to Menu Logoff	Log On Help Log Off
Help	ENTER OPTIONAL INITIAL SELECTION BELOW, PF1 FOR HELP, OR 'LOGOFF'.
	SELECTION=>
	Enter Submit
Browser Compatability Privacy Policy	





Extend

Studio modifies End-user Presentation

- •Substitute GUI objects for Host fields (Buttons, Drop-down lists, etc.)
- •Integrate Web technology
 (Calendaring Objects, Class file, Java Scripts)
- •Access Web Services
 (Address Validation Service, Class file, Java Scripts)
- •Modify Workflow (Get-to-the-Point, Screen transition logic)
- •Integrate Multiple Data Sources
 (SQL, Automated Background Host access)





Extend

External Calls

- Java Applet
- Class File
- HTML
- XML

Web Links

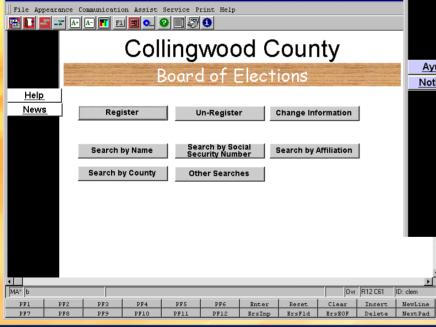
- Open any URL Static or Dynamic
- GET or POST

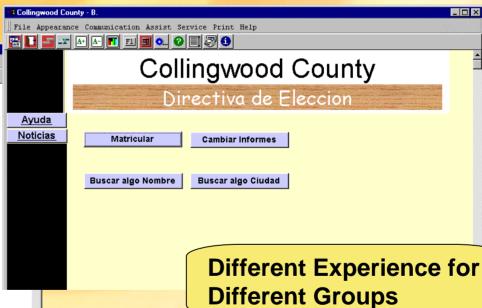




And More.... Profiles

Customization Sets for Specific User Groups









Capabilities

Web-Enable

Secure

Transform

Extend

Integrate





Integrate



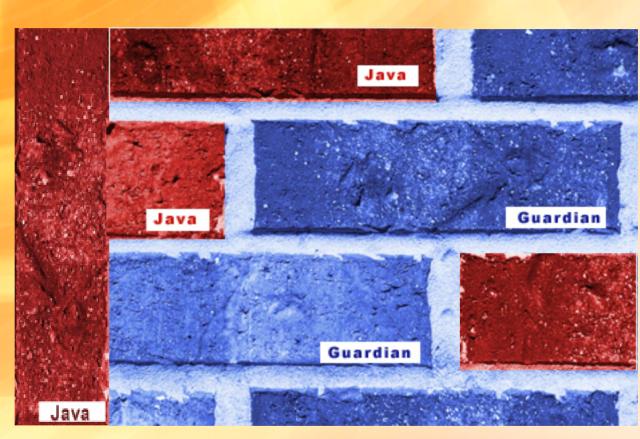
- Java Struts Framework "Traffic Cop"
- Tightly integrate Java technology with legacy applications





- •Struts Framework analyzes transactions
- Dynamically routes transactions to AppViewXS-abstracted Legacy Application
- or add-on Java module
- •or replacement Java module





Ongoing Control of Hybrid Environments





Integration Benefits Blended Legacy/Java Environment

- Legacy application presented via modern Web/GUI interface
- Legacy application extended via Java 'bolt-ons'
 - Widgets
 - Web Services
 - Java Modules
 - Java Applications
- Enhanced Value of legacy applications





Integration Benefits Service-Oriented Approach

- Reverse the business value equation
 - Deliver Significant Benefits (Web, GUI, Security) up front
- Close Cost-Before-Benefit Gap
- Incremental Java Integration
- Operate While you Integrate
- Match Development to Budget Cycles
- Self-sustaining Development





Integration Benefits

- Avoid "Big Bang" or "Ivory Tower" Projects
- Increased Feedback, Training, Acceptance
- Reduce Overall Costs
- Make Unwieldy Projects Manageable



Legacy Solution

Rewrite

- Reduced Leverage
- Difficult Business Case

Integrate

- High Leverage
- Powerful Business Case

Renew

- Leverages Investment
- Intermediate Term





Committed to Meeting the Evolving Needs of our Customers

Host Connectivity
Data Transport Security
Application Modernization