

HCL ZIE emulator solution

Simplify & Transform your Host application & Data access



Terminal Emulators business challenges

- Compatible to **latest Windows platforms** (e.g. Microsoft Windows 10 64-bit operating environment)
- **Integration** with desktop productivity tools (e.g. Microsoft Office and Excel)
- Support for the latest **security standards** (e.g. TLS 1.2)
- **High Cost & Complexity** due to multiple vendors emulators and maintenance
- **Audit & Compliance** for License usage
- Support to **Modernize/Automation features**
- Support for **extensive languages** BiDi & DBCS



HCL ZIE Terminal emulator offerings

ZIE for Windows - Simple & Modern

Proven & reliable Microsoft Windows desktop emulator for access to Mainframe applications and data

ZIE for Web - Mobile & On Demand

Browser-based emulator to simplify host access to Remote & mobile users

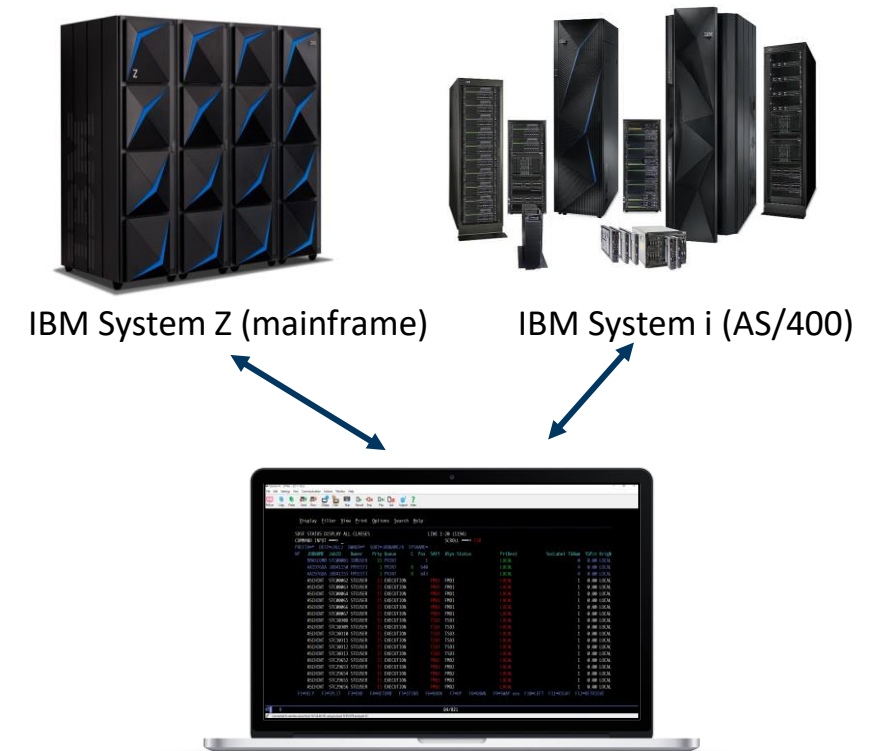
ZIE for Transformation - Business Transformation

Transform mission critical terminal application to Web, mobile, portal or RESTful web services without changing application source code.



ZIE for Windows Overview

- **Simplified and Secured host communication** and terminal emulation package for Microsoft™ Windows™ (both 32 and true 64-bit OS)
- Host access to business critical applications & data on **IBM z System (Mainframe) and IBM System i (AS/400) systems**
- **Provides powerful integration with development tools** via Emulator High-Level Language Application Programming Interface (EHLLAPI) and Host Access Class Library (HACL) API's.
- **Most Secured connections to host** that supports Transport Layer Security (TLS) 1.2 with Federal Information Processing Standard (FIPS)
- **Express logon Features** like Bypass Sign-on Using Password Substitution, Kerberos Services Ticket Auto-Sign-on and Certificate Express Logon.
- **Supports extensive languages** including DBCS and BIDI languages
- **License Manager for real-time tracking** of the number of licenses in use



ZIE value proposition



- Font scaling, Wide-screen display & high resolution
- New age Visual style



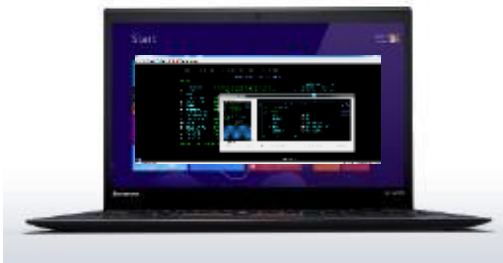
Keyboard, colour remap, and other customizations



Powerful API's to support automation



Simple License Management



Client Workstation

Telnet connection between Host-Client

TN 3270 or TN 5250



IBM-I / Z



TLS 1.2 compliance with FIPS (Default to MSCAPI)



Stay current with OS levels and its Virtualization



Extensive Support of Macro record & playback



Simpler way to Migrate from older version

Automation in ZIE emulators

ZIE provides multiple Programming interfaces to support Automation in windows. Developers can write custom applications using APIs in many different languages. Examples – C/C++, Visual Basic Script, Macros, Java, and .NET targeted applications.

Supported Automation APIs

- ✓ **EHELLAPI:** Use to access emulator data, sending & intercepting keystrokes, querying the status of the host session, uploading and downloading files, etc.
- ✓ **HACL:** allows application programmers to access host applications easily and quickly.
- ✓ **PCSAPI:** Used to start, stop, and control emulator sessions and settings.
- ✓ **DDE:** This interface is similar to the EHELLAPI interface and has some additional functions for access to the emulator clipping rectangle, intercepting mouse events, and adding/removing commands in menu bar
- ✓ **SRPI:** provides functions for writing synchronous call-return interfaces to remote server programs

Upgrade to 64-bit Emulator



Modernized User Interface

Achieve new look and feel with the guidelines provided by Windows 10



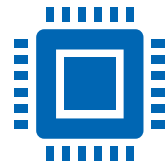
Security

Windows 10 OS level security default is TLS 1.2



Installation

Windows 7 and above has strict security policies in accessing sensitive areas of the file system.



64-bit support

A 64-bit App running in a 64-bit environment perform better.

Microsoft's [explanation](#) on programming 64-bit applications and performance/memory considerations.



Latest compiler

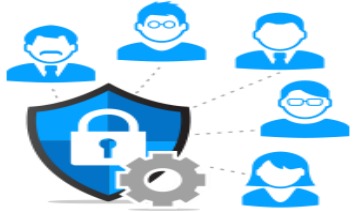
IBM ZIEWin is built using latest VS2017 compiler.



Microsoft Blog

[Microsoft Blog](#) citing an increase in runtime speed by 8.9% with VS 2017.

New features highlights



ZIE Web Service Manager

- Centralized management of configuration files



Support for **New Japanese Era (Reiwa)** character set.



Stay current with all supported OS levels [server and client] and its Virtualization



IBM **Java Runtime Environment (JRE)** is upgraded to version 1.8 SR5



JAR signer certificate upgraded with a new code signer to handle certificate expiration.

Why ZIE for windows ?

- ❑ Modernize your host access with automation capabilities
- ❑ Increase user productivity- take advantage of the productivity tools and powerful API interfaces
- ❑ Secured access of business critical application & data
- ❑ Optimize your emulator software cost
- ❑ Simplify your emulator solution and Audit compliance ready

- **Macro and Script Conversion** of any Competitive Emulators' to PCOMM/HOD EHLLAPI and PCOMM HAACL scripts
- **Languages supported** VBA, C/C++, C# + any other language supported by Emulator
- **Semi-Automated** conversion
- **Experienced and Established scripts** Migration (can be extended for Sessions, key remap, etc.)
- **Debug and defect fixing Support** for all the converted Scripts/Macros
- **Onsite/Offsite support & training** on Automation, Conversion, Troubleshoot, Best Practices
- Architectural Solution consultation, Designing **Automation Framework**
- **Providing Highly Customizable, Scalable, efficient and robust Automation Solutions** Applications for Manual operations done by individuals.
- Conversion Team is **co-located with the Product Development** team gives an edge as any issue in the Product/API can be addressed faster; reducing cycle times
- **Custom scripts can be created** for teams that lack the skills necessary to automate their business processes

Additional Information

30 Day Free Trial

<https://hcltechsw.com/wps/portal/products/mainframe-solutions/mainframe-solutions-free-trial>

Pre-requisites for HCL Z and I Emulator for Windows

https://ziewin.hcldoc.com/help/topic/com.ibm.hats.doc/ZIEWin_SW_RQ.HTM

More details about ZIE features

<https://www.hcltechsw.com/wps/portal/products/zie/offerings/zie-for-windows>

HCL

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