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

Simple License Management

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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**

- **EHLLAPI**: 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 EHLLAPI 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
Emulator Migration Services

- **Macro and Script Conversion** of any Competitive Emulators’ to PCOMM/HOD EHLLAPI and PCOMM HACL 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

Pre-requisites for HCL Z and I Emulator for Windows

More details about ZIE features
https://www.hcltechsw.com/wps/portal/products/zie/offerings/zie-for-windows
Relationship™
BEYOND THE CONTRACT

$8.4 BILLION ENTERPRISE | 132,000 IDEAPRENEURS | 44 COUNTRIES

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