

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.



Green Screen Modernization/ API

What

In Simplest words it's the way your business can keep up with the technological pace of the world



Why

Drive business growth and strategy across various departments.

Brining up new interfaces encourage more business user's interaction with system



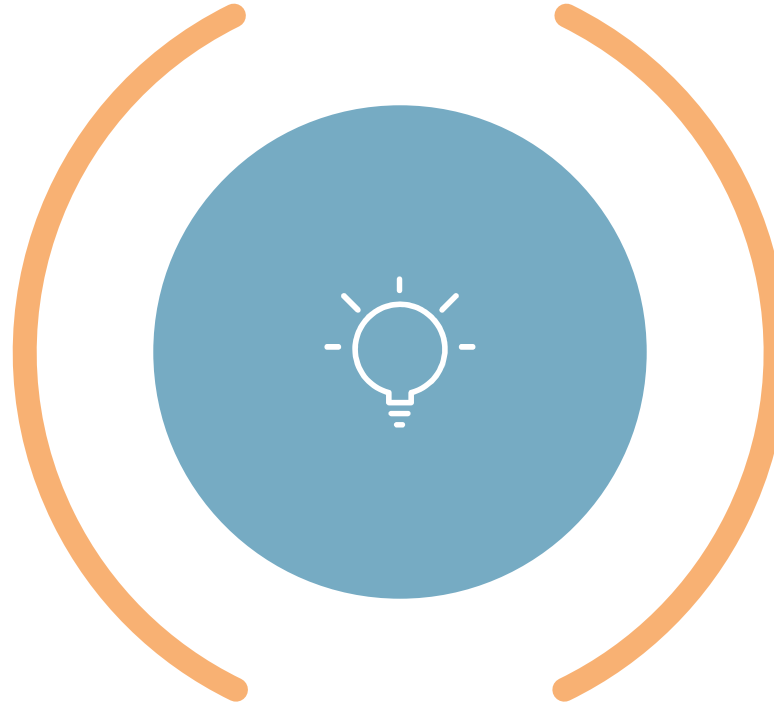
How

Transformation of existing Classic Business Applications



When

When systems are legacy or too complex to rewrite, or you just need to expose a few flow from existing applications.

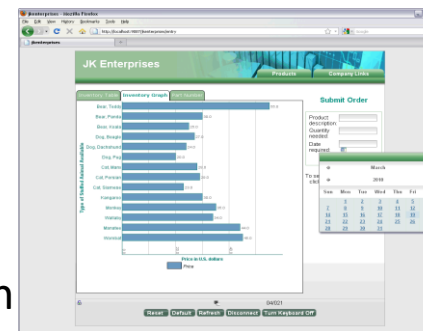


ZIE for Transformation Overview

- ZIE for Transformation is a modernization solution that **transforms legacy Green applications running on Mainframe z/OS and AS400 platforms to a Web and rich client applications.**
- Web applications can be developed with an interface that matches your **company's Web or portal pages, and your users can access them through their Web browsers.**
- Provide access from **mobile devices such as cellular phones, data collection terminals, and personal digital assistants.**
- Quickly transforms your **text based terminal applications into intuitive Web, portlet, rich client and Mobile device UI's.**
- **Greater customer satisfaction**
- **No need to rewrite or refactor existing applications, its built on open, proven platforms and technologies**

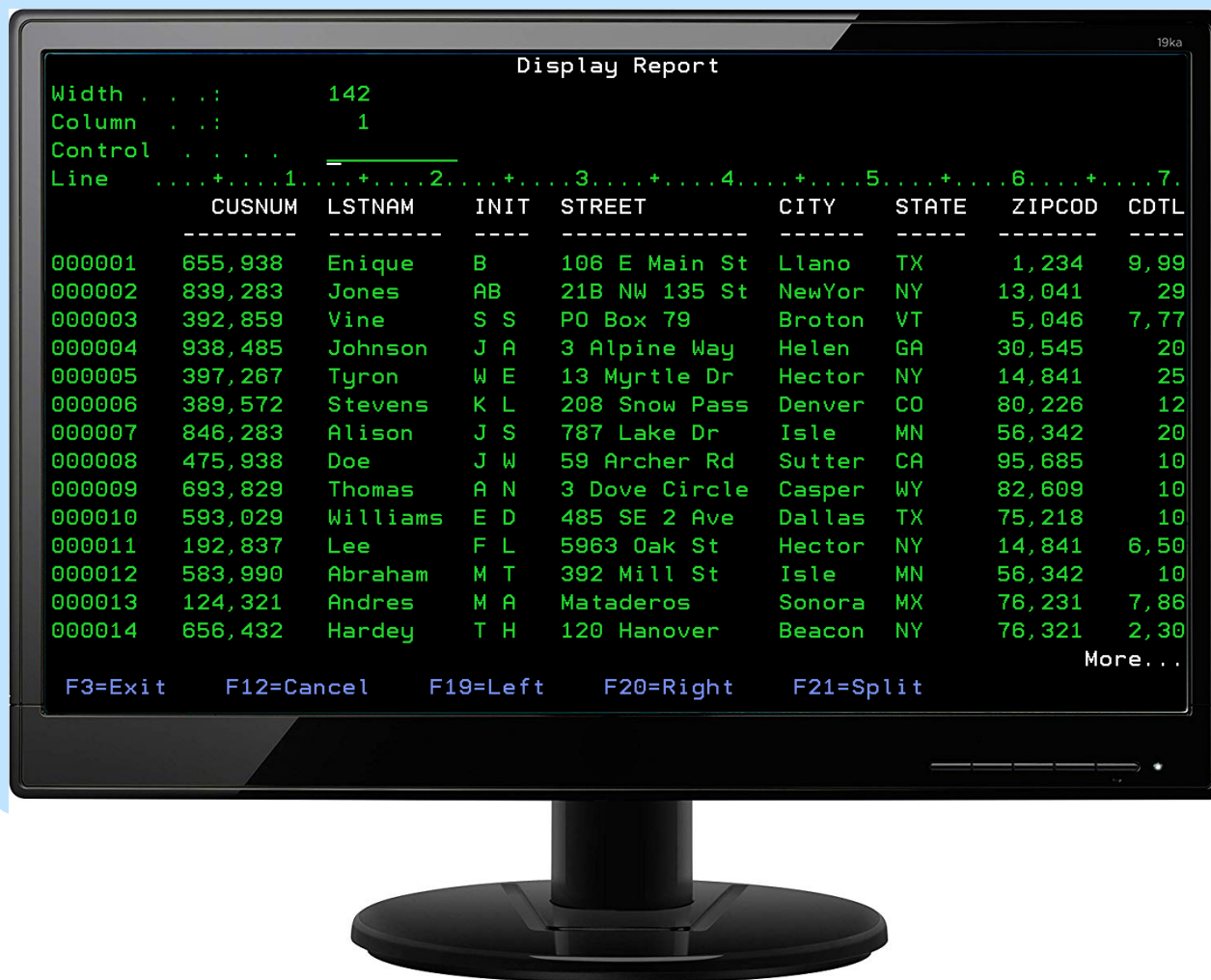
```

ModConn:localhost:localhost:server 1:ubsdemo_ear#5
File Edit View Options Help
Search Results
-----
For a record, press a function key that eggs an Action Code and press Enter.
Address: F#>Name F#>City F#>State F#>Zip F#>Phone
F#>Home F#>Work F#>Cell F#>Fax F#>Mobile
F#>Email F#>Web F#>Social F#>Other
-----
Line 1 of 1 of 1
Column 1 of 1 of 1
AREA04 AREALL ASSIGNEE ATLANTA ATLAS AUSTIN BETHEDA BOCA BOWLER BOWLING
CHARLOTT CHICAGO CT DALAS DALLAS DAYTON FIDWILL IDDCAZO SD LEX LOTUS LUMED
Name:          Act: 114-1104 Dept: 0400      Work ID: 0011
Carter,Willie, A. P. (Assigntee)  --  880-2204 Exp  10000000 ACADREDA WEL
Willie Jr, Albert T. (AS)        --  799-7204 Exp  10000000 ATWILLI9 B-RR
Willie, Al L.                   --  283-2768 Exp  10000000 ALWILLI9 F-114
Willie, Andy B. (Des)           --  880-2041 Exp  10000000 AWILLI9 B-799
Willie, Andy B.                 --  418-1528 Exp  10000000 AWILLI9 F-114
Willie, Ann "CONTRACTOR"        --  000-0000 Comp  10000000 AWILLI9 B-799/C
Willie, Arthur W. (Wayne)       --  880-2204 Exp  10000000 AWILLI9 W-
-----
Command: *****
F#>Help F#>Exit F#>End F#>End more F#>Page-To-All F#>Down dpt/eam
F#>Backward F#>Forward F#>Command F#>Aut Line F#>Down list F#>Cancel
Date:  Sun  11/22/2011  14:09:31
  
```



Generate screens to Web / Mobile using HCL ZIE for Transformation

Day 0:
Simple



Modern UI

- All pages share the same theme and style
- Can be based on an existing design

Generate screens to Web / Mobile using HCL ZIE for Transformation

Day 0:

Day 1:
Simple

Width . . . : 142
Column . . . : 1
Control

Line1.2.3.4.5.6.7.

Line	CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIPCOD	CDTL
000001	655,938	Enrique	PM	106 E Main St	Llano	TX	1,234	10
000002	839,283	Jones	AB	21B NW 135 St	NewYor	NY	13,041	10
000003	392,859	Vine	S S	PO Box 79	Broton	VT	5,046	10
000004	9,987	Dummy	DM	Street 1	ST	ST	67,853	1
000005	938,485	Johnson	J A	3 Alpine Way	Helen	GA	30,545	60
000006	397,267	Tyron	W E	13 Myrtle Dr	Hector	NY	14,841	25
000007	389,572	Stevens	K L	208 Snow Pass	Denver	CO	80,226	99
000008	846,283	Alison	J S	787 Lake Dr	Isle	MN	56,342	60
000009	475,938	Doe	J W	59 Archer Rd	Sutter	CA	95,685	10
000010	693,829	Thomas	A N	3 Dove Circle	Casper	WY	82,609	10
000011	593,029	Williams	E D	485 SE 2 Ave	Dallas	TX	75,218	10
000012	192,837	Lee	F L	5963 Oak St	Hector	NY	14,841	6,50
000013	583,990	Abraham	M T	392 Mill St	Isle	MN	56,342	10
000014	124,321	Andres	M A	Mataderos	Sonora	MX	76,231	10

F3=Exit F12=Cancel F19=Left F20=Right F21=Split

6 04/021

Reset Default Refresh Disconnect View Print Jobs Turn Keyboard Off

Modern UI

- All pages share the same theme and style
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Instant Value

- Default rendering transforms actions to clickable links and buttons.
- No changes to the host application.

Generate screens to Web / Mobile using HCL ZIE for Transformation

Day 0:

Day 1:
Simple

Day 2:
Medium

Width 142
Column
Control
Line

000001
000002
000003

Display Report

Table: TETLABFIN

No.	CUSNUM	LSTNAM	INIT	GENDER	STREET	CITY	STATE	ZIPCOD	CDTLMT	CHGCOD	BALDUE	CDDTUE	STARTDT	STARTTM
000001	839,283	Jones	AB	M	106 E Main St	NewYor	NY	13,041	5,000	1	5,000.00	4,000.00	12/20/2012	11.04.11
000002	392,859	Vine	S S	M	PO Box 79	Broton	VT	5,046	7,777	1	300.00	4,500.00	12/20/2013	12.04.11
000003	938,485	Johnson	J A	M	3 Alpine Way	Helen	GA	30,545	200	2	3,987.50	120.00	12/20/2014	13.04.11
000004	397,267	Tyron	W E	M	13 Myrtle Dr	Hector	NY	14,841	250	1	400.00	1,000.00	03/20/2000	14.04.11
000005	389,572	Stevens	K L	M	208 Snow Pass	Denver	CO	80,226	123	1	58.75	600.00	01/14/1988	15.04.11
000006	846,283	Alison	J S	F	787 Lake Dr	Isle	MN	56,342	200	3	200.00	1,200.00	04/24/1989	16.04.11
000007	475,938	Doe	J W	M	59 Archer Rd	Sutter	CA	95,685	100	2	999.00	400.00	09/14/1990	17.04.11
000008	693,829	Thomas	A N	M	3 Dove Circle	Casper	WY	82,609	100	2	5,360.00	10.00	12/20/2012	18.04.11
000009	593,029	Williams	E D	M	485 SE 2 Ave	Dallas	TX	75,218	100	1	25.00	45.00	04/24/1989	19.04.11

Customer Number: 938485
Init: J A
Street: 3 Alpine Way
City: Helen
Zipcode: 30545
Credit Limit: 200
Credit Due: 120.00
Start date: 12/20/2014
Start Time: 13.04.11

Update

Map Satellite

04/021

Modern UI

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Integration

- Replace text with images.
- Populate Input fields with other screens data from database.
- Convert date field to calendar widgets and many more!



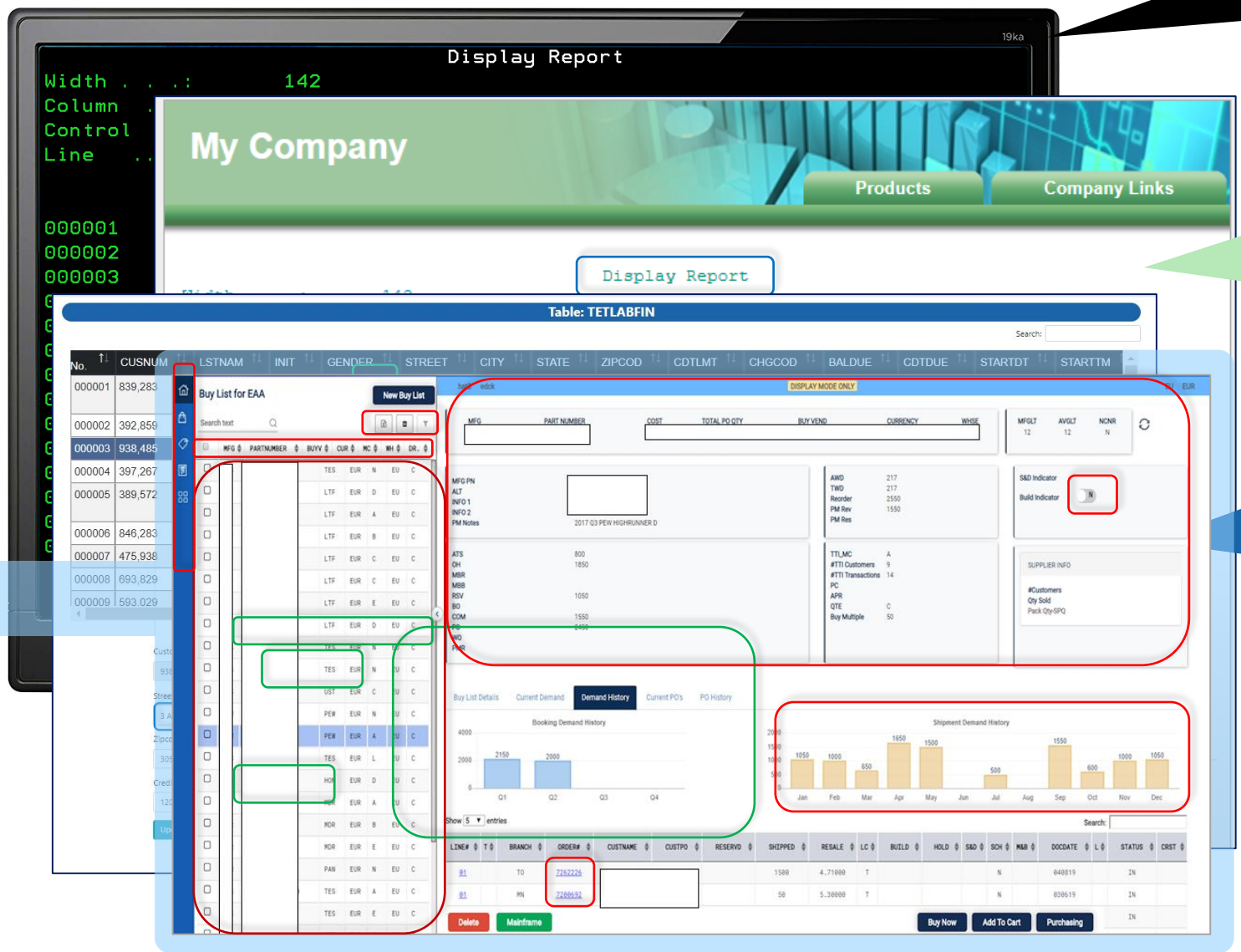
Generate screens to Web / Mobile using HCL ZIE for Transformation

Day 0:

Day 1:
Simple

Day 2:
Medium

Day 3:
Complex



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Generate screens to Web / Mobile using HCL ZIE for Transformation

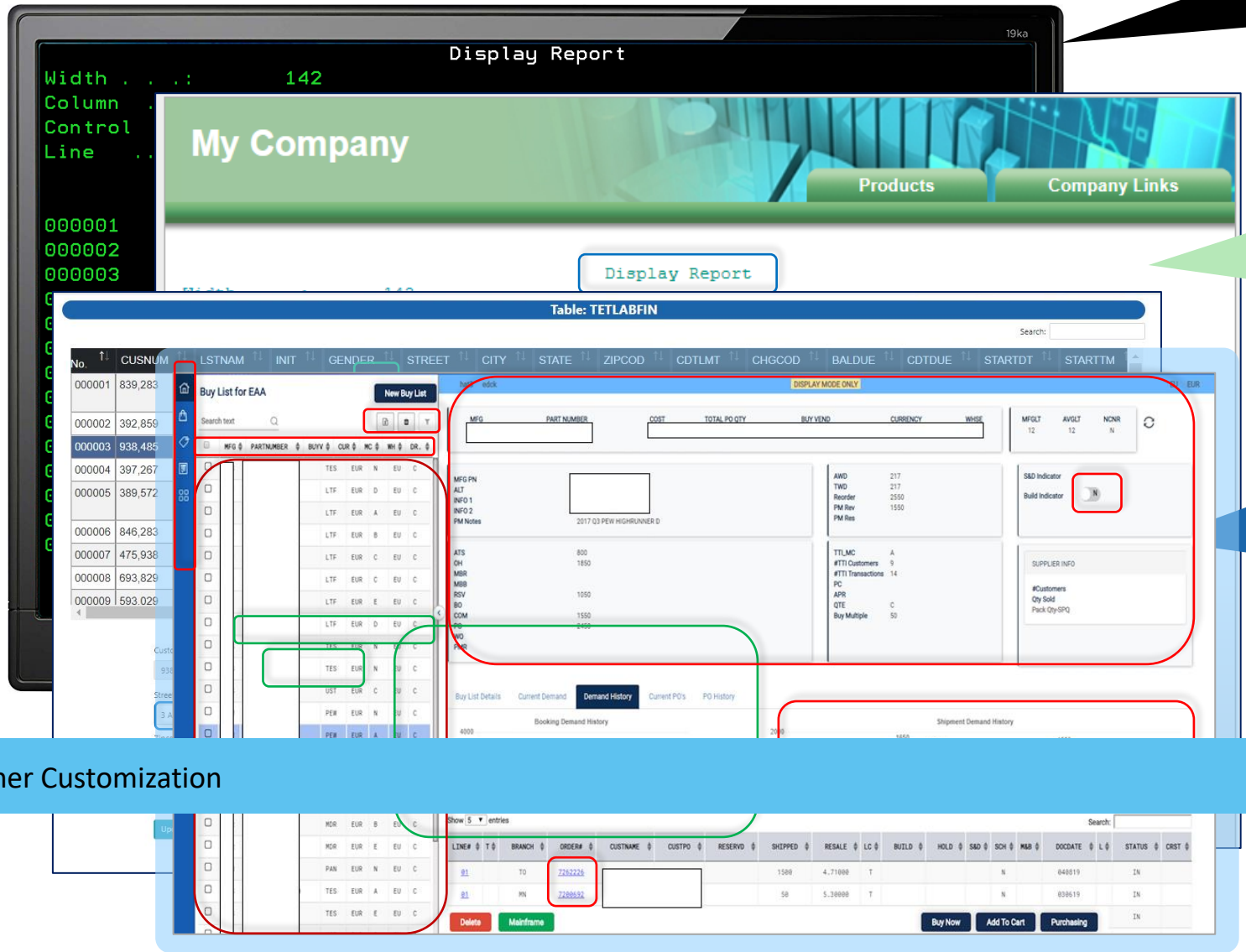
Day 0:

Day 1:
Simple

Day 2:
Medium

Day 3:
Complex

Day 4 Further Customization



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- Convert date field to calendar

Aggregation

- Merge and display data from other screens, databases or systems with the host data.
- Stats using Graphs open-source APIS, etc.

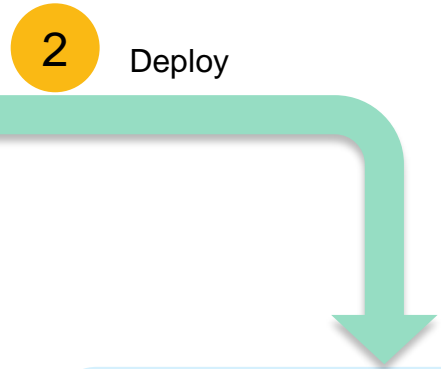
Web Services/ Web Transformation

How to transform green screens to Web / Mobile via ZIE for Transformation?


Development Environment




1 Develop / Test



Any App Server supported by ZIE for Transformation

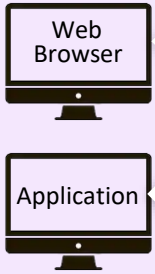


Application Server
ZIE for Transformation Enterprise Application/Portlet



5 Transform


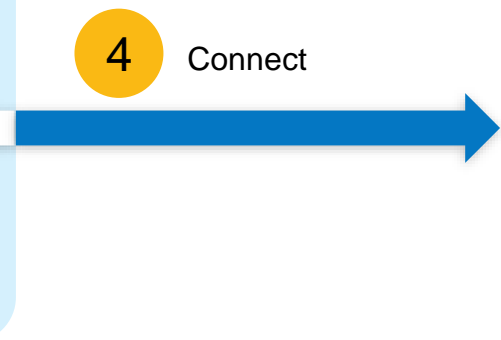
Client



REST, SOAP, WebServices over HTTP

HTML over HTTP (S)

3 Access



Telnet Server 3270 or 5250

WebFacing Server 5250W

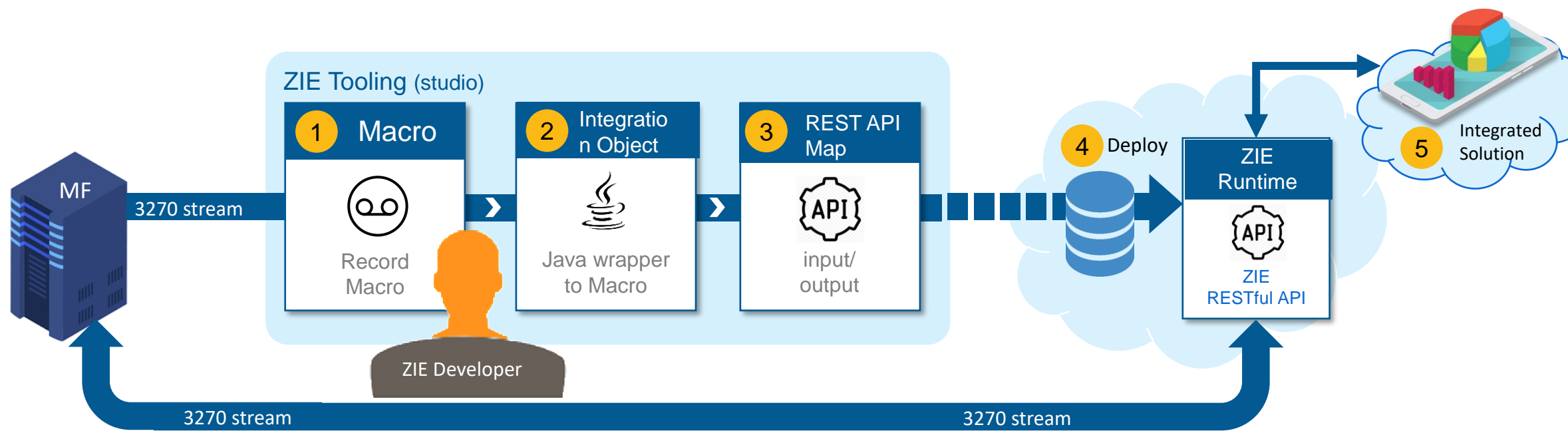
Green screens to Web Services / APIs

How to create Green screens to web services / APIs

- Build reusable transactions
- All the data/information accessible from green screens can be converted to Web Services.
- Expose host business processes as standard Web Services
- Exposes SOAP, WSDL & HTTP based REST web services (XML and JASON format)
- Supports HTTP GET, PUT, POST, DELETE Methods

Creating Web Services (REST for example) is a very simple and efficient process going through the flow:

- Record a macro.
- Generate Integration Objects from it.
- Generate requires REST API from Integration Objects.
- Deploy ZIE for Transformation project in Web Server.
- Access the API in Integrated HR Solution Portal



Why Transformation using HCL ZIET ?

Low/Zero Risk solution in
Modernization

Modernize & maintain your
business critical applications with
New Workforce

Realize Quick ROI
through Business
Process
Transformation



Low Cost
Modernization
solution

**Increase business user
productivity**

Innovation through **integration**
with **Business Applications**

ZIE for Transformation Salient Features

Security

- **TLS 1.2** compliant



SWAGGER



- REST services from ZIET **integrates with z/OS Connect EE**, a boon to **access Green Screen** applications through **API's**
- Ease of **API management** and consumption

HTML5



- **HTML5** based “out of the box” templates
- “Serene” template with “**responsive**” design

MAC Support



MacOS

ZIET to be supported on **MAC OS Platform**

JAX RS 2.0

JAX-RS

- **Support for JAX RS 2.0** - This support leverages recent runtime capabilities on RESTAPI

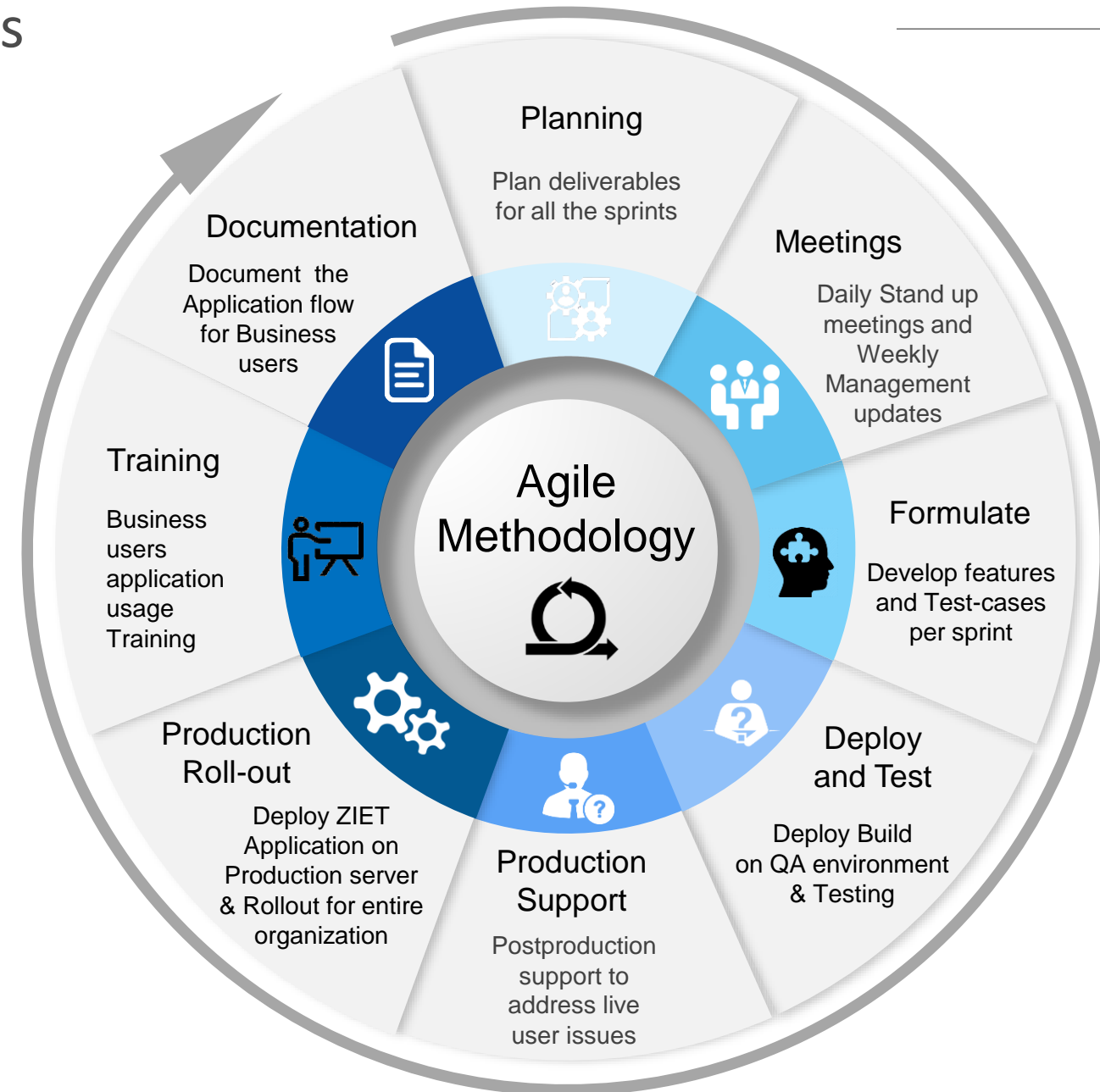
Larger Screen Size



- Transformation support for larger screen size terminals up to **62" x 160"**

ZIE for Transformation Service offerings

- ✓ Design Thinking workshop
- ✓ Proof of Concept
- ✓ Planning & Implementation
- ✓ Production support
- ✓ Hands on Lab Training



Additional Information

30 Day Free Trial

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

More details about **ZIE features**

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

HCL

*Relationship*TM
BEYOND THE CONTRACT

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



WATCH THE FILM