What’s new with HCL Leap and Domino Leap
Introduction & Agenda

What’s New with Leap?

• Leap introduction
• What’s new
• What’s next
• Summary

Marty Lechleider
Product Management Director, HCL Software
Leap is for Citizen Developers

- Let's business user innovate and improve efficiency – *without IT assistance*
- Build web forms, workflows, report and analyze data
- Easy and safe to deploy - IT stays in control with governance and transparency
Create an app from:

• A blank canvas
• Spreadsheets
• An existing Leap app - i.e., template

Customize Your App Design from Blank Canvas
Design your app with an intuitive drag-and-drop interface anyone can use
Easy to set field validation

Validation pattern for text fields

- **Placeholder:**
  - Example: 9-999-999-9999
- **Format:**
  - 1-111-1111-1111
- **Custom error message:**
  - Please enter a valid phone number

Set bounds for select many fields

- **Number of selections allowed:**
  - Minimum number: 1
  - Maximum number: 3

Setting ranges for date fields

- **Range:**
  - Earliest: 11/14/2022
  - Latest: 11/30/2022

Setting ranges for numeric fields

- **Range:**
  - Minimum: 100
  - Maximum: 10,000

‘Required’ setting on all fields
Add rules to make forms dynamic

- Make the user experience dynamic
- Specify rules to:
  - Show/hide
  - Enable/disable
  - Require/not require parts of your form
Design apps that automatically work on any device or site

- **Dynamic Width**: Form page width adjusts to the width of window, portal column, iframe or device
- **Dynamic Layout**: Form layout collapses to one column based on breakpoints selected
- **Dynamic Rules**: Rules set to determine when to show and hide elements
Add workflows

- Move from emailing spreadsheets to an automated process
- Add workflow stages, assignments and notifications to automate approvals or steps in the process
- Lookup reporting relationships and add dynamic assignments
- Determine workflow decisions and branching
- Send reminder notifications and past due notices
- Govern access and permissions based on what workflow stage the document is in
**Empowering Citizen Developers While Maintaining IT Governance**

<table>
<thead>
<tr>
<th>Controls</th>
<th>Visibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>• How data is managed</td>
<td>• Number of apps built</td>
</tr>
<tr>
<td>• How users authenticate</td>
<td>• Who is building apps</td>
</tr>
<tr>
<td>• Whether to allow anonymous and external use</td>
<td>• What apps are being used</td>
</tr>
<tr>
<td>• Safeguards against malicious code, file types, sizes, etc.</td>
<td>• How often are they used</td>
</tr>
<tr>
<td>• Limits on activities that might degrade performance</td>
<td>• When was an app last updated</td>
</tr>
<tr>
<td>• Who can build and use apps</td>
<td>• Who has admin rights to the app</td>
</tr>
<tr>
<td></td>
<td>• How many records</td>
</tr>
<tr>
<td></td>
<td>• How many file attachments</td>
</tr>
</tbody>
</table>

**Added Value**

- Custom themes
- Custom templates
- Custom widgets
- Controlled access to external data
Leap Success Stories

- Wanted to digitize manual processes to remove business inefficiencies
- Goal to cut IT backlog by empowering employees
- 2,000+ apps created and growing to improve business workflow processes
- Results: Reducing IT backlog requests and strengthening employee sense of ownership.

“Within months, the system had taken off with dozens of applications springing up across the enterprise.”

—Ralf Schliepat
Senior Consultant at Lufthansa

https://www.hcltechsw.com/resources/stories/lufthansa
Leap runs on...

HCL Domino Leap

HCL Leap

Domino does it all

DB2

Oracle

PostgreSQL

WebSphere
deprecate

Kubernetes
Leap and Domino Leap

• Same code running on different platforms
• 98% + the same UI and functionality
• Same APIs for Data Access, JavaScript, App Management, etc..
• Some differences between them
  • Domino Services in Domino Leap
  • Tagging on the Manage Page in Leap
  • Reminder notifications in Domino Leap
• Efforts to pull the release cycles for Leap and Domino Leap together
Leap is included with Volt MX and MX Go

No longer sold standalone

- One offering for citizen and professional developers
- Volt MX Go customer can use either Leap or Domino Leap
- Leap will become more integrated into MX over time
Domino Leap continues to be sold as an add-on to Domino

• Domino 14 will include a limited entitlement to Domino Leap – 2 apps
What’s new?
Leap in (Open Liberty) Container with Helm Chart
Leap 9.3.2 - April

Deploy Leap via Kubernetes

• Modern cloud native deployment
• Deploy to Azure, AWS or GCP
• Or deploy to Kubernetes on prem
• Get out of the business of managing WebSphere
PostgreSQL Support
Leap 9.3.3 - August 2023

• Open-source database option
• PostgreSQL options with all major cloud vendors
• Can also run on prem
• Works with Leap container or traditional WebSphere deployment
Attachments stay in context in Domino Rich Text round tripping
Admin Dashboard
Leap 9.3.3 – August 2023, and Domino Leap 1.1.2 – August 2023

Visibility into number of apps, users, etc.

- Number of apps built
- Who is building apps
- What apps are being used
- How often are they used
- When was an app last updated
- Who has admin rights to the app
- How many records
- How many file attachments

Can export statistics to xls or REST
Leap Custom Widget API
Leap 9.3.3 and Domino Leap 1.1.2 – August 2023

• Add your custom Web Components to Leap and Domino Leap
  • Gain consistency with the rest of your digital properties
  • Add new functionality

• Components can include any HTML, CSS & JS

• Your Web Components become Widgets in Leap
  • Display Widgets and Data Widgets
  • Data Widget create fields, show in View Data
  • Use with Rules
  • Set properties
  • Have events
  • Use with services
  • etc.
Add new behaviors, looks, functionality to Leap

Custom Widgets work like native Leap Widgets

WYSIWYG

Set Properties & Events

Custom Widgets on the Palette

Data Widgets create data fields

Apply Rules
Custom Widget API – How It Works

Registering the Widget with Leap

Your Custom Web Components

- Component 1
  - JavaScript files
  - CSS files
- Component 2
  - JavaScript files
  - CSS files

Entries in VoltConfig.nsf or Leap_config.properties file to define them as runtime resources

```html
runtimeResources.1 =
  <link>
  <link>
  <link>
  <script>
  <script>
  <script>
```
Custom Widget API

This API provides a mechanism to incorporate custom widgets into the IBM Cloud App Infrastructure (CIAI) environment.

**Getting started**

**Product Configuration**

Additional resources can be loaded into the Leap UI's by adding `ibm.nitro.runtimeResources` to the `ibm.nitro.NitroConfig` object. These resources are expected to include definitions of your custom widgets and any additional JavaScript needed to use them.

For example:

```javascript
ibm.nitro.NitroConfig.runtimeResources.1 = {
    <link rel='stylesheet' type='text/css' media='screen' href='https://myWidgets.example.com/style.css'>
    <link rel='stylesheet' type='text/css' media='screen' href='https://myWidgets.example.com/style.js'>
    <script src='https://myWidgets.example.com/common.js'></script>
    <script src='https://myWidgets.example.com/MyYesNoWidget.js'></script>
}
```

**Registering a Widget**

As your custom `.js` file is loaded into the page, it is expected to register one or more custom widgets:

```javascript
const myWidgetDefinition = {...};
nitro.registerWidget(myWidgetDefinition);
```
In-Line CSS on the Style Tab
Leap 9.3.3 – August 2023, and Domino Leap 1.1.2 – August 2023
Application Notes
Leap 9.3.3 – August 2023, and Domino Leap 1.1.2 – August 2023
What’s next?
Leap Web UI for Admin Config

- Web UI vs config file
- Set controls / limits
- Access to log information
Leap integration with Foundry

Leap and Foundry working together

Integration Service in Foundry consumed in Leap

IT defines integration services

- Customer Data
- Product Data
- Organization Data
- etc...

Business user creates or uses app with Foundry service

Secure communication via internet

Auth

Foundry Token

- Leap App 1
- Leap App 2
- etc
Leap Admin defines services via URL for the catalog

- Admin can create service definitions via URL and have them appear in the Leap service catalog
- Create once – use by many
- Admin sets service authorization
  - Who can see and use different services in the catalog
Leap on Cloud

• Targeted at Volt MX customers who want HCL to host their Leap entitlement
• Fully managed single tenant Leap instance
• Open ID Connect for SSO
• 99.95% SLA
• Based on Leap 9.3.5
• Kubernetes and PostgreSQL automated provisioning
• Foundry identity integration option
Leap Cadence – Release Approx. Every 12 Weeks

<table>
<thead>
<tr>
<th>Leap</th>
<th>DLeap</th>
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<tbody>
<tr>
<td>November 2, 2023</td>
<td>December 7, 2023</td>
</tr>
<tr>
<td>February 8, 2024</td>
<td>February 29, 2024</td>
</tr>
<tr>
<td>May 2, 2024</td>
<td>May 23, 2024</td>
</tr>
<tr>
<td>July 25, 2024</td>
<td>August 15, 2024</td>
</tr>
<tr>
<td>October 17, 2024</td>
<td>November 7, 2024</td>
</tr>
<tr>
<td>January 23, 2025</td>
<td>February 13, 2025</td>
</tr>
</tbody>
</table>

9.4 and 1.1.3
- Improve to how we handle secrets with K8 deployment
- Bug fixes
- Workflow UI improvements

In the queue
- Admin web-based configuration
- Admin – from URL
- Foundry integration
- Send email service
- Leap on cloud
- App from spreadsheet improvements
- Reminders – Leap
- Multiple attachments
- Updated manage page
- Updated themes
- Full text search - including attachments
- Accessibility fixes
- Team authoring
- CMS integration
- Versioning
Summary

- Leap is for Citizen Developers
- Leap and Volt MX
- Domino Rich Text Integration
- New Leap Deployment Options
- New Admin Dashboard
- New Custom Widgets
- Other Nice New Things
Start Your HCL Volt MX Journey Today

Sign up for our free account to explore our platform’s powerful low-code capabilities built for both citizen and professional developers.

Your free account includes:

- Leap IDE for citizen developers to build apps in minutes
- Volt Iris IDE for professional developers
- Volt Foundry: Backend services management
- Support and training: Guided paths to get the most out of your free account before you commit

First Name*  Last Name*

Email address*

Company*

Country*

Select Country

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