VoltScript Overview

HCL Labs - Volt MX Go Team
HCL’s statements regarding its plans, directions, and intent are subject to change or withdrawal without notice and at HCL’s sole discretion.

Information regarding potential future products is intended to outline our general product direction and it should not be relied upon in making a purchasing decision.

Information regarding potential future products is intended to outline HCL’s general product direction and should not be relied upon for any other purpose. Information relating to potential future products is not a commitment, promise, or legal obligation to deliver any material, code or functionality, all products are made available for sale solely at HCL’s discretion and shall be subject to relevant terms and conditions. Development, release, and timing of any future features or functionality described for our products remains at HCL’s sole discretion.

Performance is based on measurements and projections using standard HCL benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations such as the amount of multiprogramming in the user’s job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here.
Agenda

Why VoltScript?
Engage 2022
Engage 2023
Early Access 2
Early Access 1
VoltScript in Foundry NOW
Call To Action
Why VoltScript?
Domino Developer Ecosystem

LotusScript

JavaScript*

Java

“Classic” JS
jQuery / Dojo
ECMAScript 5
ECMAScript 6
Node.js
TypeScript

Java 1.5
Java 8
Java 11
Java 17
Java 21
Our Guiding Principles

- Simple
- Fun
- Approachable
- Extensible
- Consistent
- Modern Dev Experience
HCL Volt MX Go

VolScript

Object Services
Backend Services
API Management
Analytics
Engagement
Security

VoltFormula

Volt Foundry
Volt Iris IDE
Volt Flare

Adapter

REST APIs
Domino Danube

Web Services
SaaS Apps
Databases

First Touch Setup
Design Import

Apps & Client SDKs

Vienna
London
El Paso
VoltScript is Middleware
Options for Modernizing your Domino apps

- **Volt MX**
  - Native Multiexperience Apps
  - Integrate Anything

- **REST APIs**
  - Java, HTML, Odata, NodeRed & more...
  - OpenAPI standard

- **Domino Leap**
  - Situation Apps & Workflows
  - No code required, used by business users

- **Restyle**
  - Updated UI experience for existing apps
  - Quick update in minutes

- **Nomad**
  - Desktop Independence
  - Web & Mobile without re-coding

- **Domino**
  - Existing app investment
  - Cloud-native delivery
HCL Software

Engage 2022
Where were we at Engage 2022?
Where were we last year?

Language Enhancements
Supported stack trace
Return keyword
New mathematical operators (++ etc)
New inequality operator alias (!= as well as <>)
Short-circuit conditionals (&& and ||)

Developer Environment
VS Code extension
DevContainer
Code running in VS Code, command line and Java
Foundry pre/postprocessor POC
Unit tests
Dependency Management
VSID (revamped LSX Toolkit)
Where were we last year?

VoltScript Extensions
- ContextVSE
- StreamVSE
- JsonVSE
- WebVSE
- ZuluVSE
- OSUtilsVSE
- ZipVSE
- HashVSE
- KeepVSE
- CouchVSE

VoltScript Library Modules
- VoltScript Testing Framework
  - Already open sourced
  - Also ported to LS on OpenNTF
- VoltScript JSON Converter
- VoltScript Collections
Released September 2023

Enhanced VSEs
  Published to Volt MX Marketplace

Automated build pipelines and testing

VoltScript JSON Converter and VoltScript Collections open sourced

VoltScript Console Colors open sourced

DevContainer Docker image on Harbor

Windows zip file

Build Management VS Code extension

Full documentation
  API docs and unit test reports
  How-to guide samples and tutorials
Early Access 2

VoltScript VoltMX Middleware

Updated VSEs
  Working in Foundry
  New APIs and fixes

XML VSE

New Windows package
  Now on HCL Software downloads site

New Docker image
Hot Off The Press!

Further enhancements to VSEs
You talk, we act
VSEs and VoltScript runtime updated for ubi-8 minimal
Updated dev container - ubi-8 minimal
Fixes to VoltScript JSON Converter and VoltScript Collections
VoltScript Interface Designer open sourced
VoltScript HTTP server - internal access only
VoltScript debug server
VoltScript VoltMX Middleware
New tutorials - get ready for Foundry

VoltScript in Foundry
Integration Services
Unit testing and local HTTP testing context
Edit in Foundry
Pre/postprocessors
Snippets
Monaco editor content assist
Foundry snippets for atlas.json and integration services
Package for Foundry
LS → VS planning
LotusScript → VoltScript

NotesUIDocument, Selected documents → UNIDs as input parameters ← Same as XPages, Domino web
NotesUIWorkspace.Prompt/DialogBox → input parameters ← Same as XPages, Domino web
NotesSession → KeepServer + JWT token
NotesDatabase → KeepScope
NotesDocument → KeepDocument
NotesItems → JSON objects
NotesViewEntryCollection → JSON object
View entry / document collection update → KeepScope bulk operations ← embrace DQL
OpenLog → logging, KeepDocument create
Print statements, messageboxes, refreshing UI → JSON return messages ← Same as XPages

HINT: Profile your agents and LotusScript libraries, identify optimisations for remote running.
Call to Action

- Download VoltScript EA2
- Think “testable code” – use LotusScript port of VoltScript Testing
- Think “middleware” – HTTP timeouts, data is remote and JSON
- Read the documentation
- Try the samples
- Review Language Enhancements
- Review VoltScript Extensions and Libraries
- Share your thoughts and experiences
Questions?
Get Started with Volt MX Go today!

Hosted Free Trial
Try it now on HCL Sofy!

Learn
- HCL Software U
- Self Learning Courses
- Webinar Series
- Intro and Deep dive content

VoltScript Preview
- Early Access

BP Enablement Webinar