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DataConnect 11 Architecture and IDE

Chris Gilson
Director, Product Engineering
Agenda

- Introduction to v11
- v11 Overview
- Upgrading to v11
- v11.2 Preview
- Demo
Introduction to v11
DataConnect History

Data Integrator v9
• Desktop architecture
• Windows only design studio
• 32-bit/64-bit standalone engines available

DataConnect v10
• Client server architecture
• Design studio on Windows and Linux
• Flash dependency

DataConnect 11.0
• Desktop architecture
• Eclipse IDE + 64 bit engines
• Design/runtime support for v9 XML artifacts

DataConnect 11.2
• Design/runtime support for v9 XML artifacts
• Design/runtime support for v10 JSON artifacts

2007
2011
2017
Q1 2018
DataConnect v11 Themes

Zero Migration
Up upgrade in minutes: re-use all your pre-existing v9 and v10 artifacts

Recapture Our Heritage
Strengthen our core values in simplicity, performance, and reliability

Hybrid Cloud
Architected for a hybrid cloud architecture to meet tomorrow’s data challenges
11.0 Overview
Legacy Modernization – v11.0

Retain the strengths of v9 design experience but...

- Improve UX via simple, flexible architecture
- Simplify integration with customizable, user-friendly tools

Backwards compatibility

- Upgrade, not migrate
- Import artifacts into v11 workspace and execute

Robust and secure

- Remove Flash and Java 6 dependencies

Provide new functionality for v9 users

- New editors (XML, JSON)
- New connectivity (REST Invoker 3, Excel, MS Dynamics 365, etc.)
- Linux Design Studio
- Debugging enhancements

Hybrid management

- On-Prem
- DataCloud
Return to Our Heritage - v11.2

Flexible desktop architecture with emphasis on UX / User friendly tools
  • Lightweight “desktop” IDE with flexible SDK for runtime on-prem and cloud
Backwards compatibility – “import, not migrate”
  • Includes design support for v9 and v10 artifacts
Open repository
  • File System storage – leverage secured network resources accessible by 3rd party tools
Debugging
  • Tighter coupling with engine gives “v9” like debugging features that will be extended
Make common integration tasks quick and easy
  • Duplicate existing events to multiple targets
  • Search capability in place for workspaces
  • Quick Access
API connectivity
  – Generalized easy-to-use and standard approach to WS integration
Reusability and change management
  – Merge Datasets into Maps – allows reusing connection artifacts but reduces complexity
  – Allow Schema editing in map editor – make on-the-fly edits in mapper but keep ability to “save as”
  – Remove schema snapshot from Runtime Config
Designed for a hybrid cloud architecture to meet tomorrow’s data challenges
  – Enable the power of hybrid patterns, endpoints, and deployments
DataConnect 11 highlights

Simple and easy to use

Single design desktop interface based on extensible framework

All-in-one design interface:

- Project explorer
- Map designer
- Process designer
- Schema designer
- EzScript library
- Packages
- Macros
- Help
Upgrading to v11
Importing v9 Projects: Import
Importing v9 Projects: Choose Workspace and Repository
Importing v9 Projects: From File Folder
Importing v9 Projects: From File Folder
Upgrading to v11

DataConnect v9
- Create a copy of your v9 artifacts
- Options to import from the file system or the entire repository
- Artifacts immediately appear in the IDE and can be edited or executed
- Ability to set UDC location
- Set macro definition file preference
- Convert relative paths to absolute paths

DataConnect v10
- Export individual files, artifacts or whole projects
- Import zip files into v11
- Same import options for v9 apply to v10
V11.2 Preview
Install

- RCP
- Site – DC plugin
- Engine
- Installing DataConnect
- Define Workspace
- Apply License
Project Explorer

- Workspaces
- Projects
- Context Menus
  - Views/resetting
- Quick Access
- Search
- Validate/Run
Compatibility Mode
Macro Manager

![Macro Manager Interface](image)

- Preferences
- DataConnect
  - EZscript Editor
  - Execution
  - General
- Macros
  - Map Designer
  - Process Designer
  - Schema Designer
- General
- Help
- JSON
- Validation
- XML
Map Designer - Datasets
Map Designer – Mapping
Map Designer – Multiple Targets
Map Designer – Events and Actions

<table>
<thead>
<tr>
<th>Event List</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 /TARGET_1/R1</td>
<td>RecordStarted</td>
</tr>
<tr>
<td>2 /TARGET_1/R2</td>
<td>RecordStarted</td>
</tr>
<tr>
<td>3 /TARGET_1/R3</td>
<td>RecordStarted</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Record Types</th>
<th>Name</th>
<th>Base type</th>
<th>Description</th>
<th>Length</th>
<th>Schema Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>R1</td>
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<tr>
<td></td>
<td>R2</td>
<td>R2</td>
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<tr>
<td></td>
<td>R3</td>
<td>R3</td>
<td></td>
<td>273</td>
<td></td>
</tr>
</tbody>
</table>
EZ Script Editor
Map Designer – Configuration Tab
Schema Designer
Package Manager
Demo
Connect Your World
Experience DataConnect 11 in a Hands-on Lab

✓ Receive a guided tour of DataConnect 11
✓ Test your upgrade to v11
✓ Learn how to connect with Ingres, Actian X, Vector

The Boardroom
2:15 – 4:00pm
Thank you!
Lunch - Terrace Restaurant

Time: 11:45-12:45

#hybridddataconference