

# Why Upgrade from DC10

## Summary

The latest release of Actian DataConnect focuses on improving developer productivity and simplifying the integration architecture. A new, faster and more responsive desktop IDE built for extensibility provides familiar functionality with interactive feedback from the runtime engine to increase design time efficiency. The design metadata repository is more accessible and enables more options for using third party source control.

Actian DataConnect Integration Manager has an intuitive user-interface that enables operations personnel to quickly configure, schedule, monitor integrations and use a unique log browser to quickly find errors and other relevant messages. An HTTP endpoint is automatically published for every configured integration with no additional coding and the RESTful API allows developers to dynamically manage integrations.

DataConnect version 10.6 is entering Extended Support in April 2019 and Obsolescent Support in April of 2021. See this [Support Lifecycle and Levels](#) page for details on [Support Lifecycle and Levels](#)

	DataConnect 10.6	DataConnect V11	Why you care?
User Interface	Flash	Studio IDE = Eclipse desktop RCP, Integration Manager = HTML5	Complies with Corporate governance policies
Java, TLS1.2 updates	Java 7	Java 8 update and TLS1.2 for all connectors and HTTPS components	Stay current and protected against security vulnerabilities and communication protocols
Windows OS updates	Windows 7, Windows Server 2012	Support Windows 10 and Windows Server 2016	Future proof Windows deployments
Design Repository	Embedded content management system	File system based artifact management based on developer standards and practices	Facilitates easy use of source control systems like Git, TFS, and Subversion

## Security

- **Design metadata repository** – a file-system based metadata repository leverages existing network authentication and file sharing capabilities your existing security practices depend on.
- **Engine SDK / CLI execution** – the runtime executable also leverages existing network authentication and execution permissions to support current security practices with no additional dependencies.
- **UniversalConnect™ Technology** – connectors and components support TLS 1.2 standard.
- **DataConnect Integration Manager** – a browser interface to deploy, configure, and monitor integrations.
- **DataConnect Integration Manager PaaS** – deployment option fully hosted by Actian DataCloud and SSAE-16 SOC2 Type 2 compliant with secure runtime and connectivity to data behind the firewall.

# DataConnect Studio IDE

Action DataConnect Studio is a modern Integrated Design Environment built on a widely-adopted open-source framework that enables more efficient design time experience and easier extensibility.

DataConnect Studio IDE 11.4 enhancements include, but not limited to:

- **Install and launch** – subject to normal corporate governance policy, all it takes is a simple download and install to be up and running in minutes.
- **Personalized views** – the design interface panels can be resized and moved to allow visibility to the things you need most.
- **Search and Search/Replace** – deep search capabilities now exist for design workspaces and projects.
- **Source editors** – XML, JSON, and Text editors are now included, so power users can modify or view source content natively.
- **Data Integrator 9 Compatibility Mode** – allows full backwards compatibility to editing integrations using the prior XML metadata format and event model. All version 9 events and actions are supported.
- **Engine Execution Profiler** – provides immediate, interactive feedback that enables user to optimize their integration designs.
- **REST API Invoker design interface** – HTTP client tooling inside the Process designer provides an interactive and easy-to-use interface for designing RESTful web services integrations.
- **Content Assist** – a script editor shortcut to help build functions using correct parameters and syntax.
- **Dynamic mapping** – process designs now support macros for step properties, so any packaged map can be called from the process dynamically.
- **Transformation and Process object scripting support** – the EZscript editor now provides support for the methods and properties of these core integration objects for deep, low-level interaction.
- **Package Manager** – simplified, flexible versioning and packaging system: user decides what to package and when to increment major versions, incremental save updates minor versions.
- **Schemas** – now directly editable within the Mapping views, no need to ‘refresh schema’.
- **Datasets** – reusable connection information but no longer tightly coupled to runtime configurations.
- **Eclipse site plugins** – these allow developers to integrate the Action DataConnect editors into their existing Eclipse environments for Windows and Linux.
- **Design SDK** – enable developers to dynamically create integration artifacts or their own custom user interfaces using a Java SDK.
- **Multiple Targets** – additional target side connections are now supported and configured the same as any target connection and can be written to using simple conditional rules. Replaces the need to use “change target” actions
- **Map Navigator** – quickly jump to any source / target connection or any map including intermediate target maps.
- **Clone ECA Rules** – ability to quickly duplicate events and actions across multiple record types saves time by reducing repetitive tasks.
- **User Interface improvements** – Several usability improvements such as navigation for multiple source and target connections in a map, updated labels in the UI, improved Configuration tab layout, and automatic unique log file naming.
- **Connectivity enhancements** – Netsuite 2018.2 with token-based authentication, a zip component with AES256 encryption, easier target schema creation, and more.
- **DataFlow job configuration** – Easy to configure support for DataFlow job executions within Process workflows.

# DataConnect Integration Manager

Actian DataConnect Integration Manager is a new browser-based, HTML5 user interface that allows operations and support staff to easily configure, schedule, execute, and monitor all deployed integrations from a single location.

- **HTTP Listeners** – each configured integration is automatically assigned a URL listener endpoint executed with a simple POST command that also supports input data. Synchronous and Asynchronous invocations are supported.
- **File Listeners** – on-premise deployments of DataConnect Integration Manager can automatically invoke an integration when a file is moved into any locally addressable folder.
- **Integrations as APIs** – the RESTful web service interface provides the ability to securely and dynamically manage all configured integrations.
- **Container friendly** – the DataConnect Runtime Engine is compatible with and can be managed containers (e.g., Docker images with Kubernetes).
- **Linux platform support** – Integration Manager installer and support for Linux.
- **Job Orchestration service** – provides tracking and log aggregation of jobs invoked via a parent process that uses the Orchestration invoker.
- **Users and User Groups** – role based user and user group management for additional control of access to Job Templates and Job Configurations for resource sharing.
- **Automated Notification service** – enables toggling automatic notifications for job Error and Abort status on any Configuration.
- **DataFlow native scheduling and execution** – BYO DataFlow engine or cluster. Directly invokes DataFlows in addition to the support provided in DataConnect Studio Process Designer workflows.
- **Aggregator Service** – Merciless event-processing via DataConnect or DataFlow aggregates messages into micro-batches for efficient processing.
- **High Availability** – Quickly stand up multiple worker nodes for additional workload bandwidth or job segregation
- **Streamlined Installation and configuration** – Integration Manager server can be quickly deployed and run standalone or in fully distributed mode.
- **Improved Job Template and Configuration wizards** – more intuitive deployment interactions for rapid configuration and scheduling of integrations.
- **Externalized Worker Service and Messaging Broker** – provides “bring your own” database and messaging services for on-premise and private cloud deployments to enable custom management and reporting solutions.



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