

DataFlux Data Management Studio



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YOUR BUSINESS.
ONE SOLUTION.



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DataFlux Data Management Studio Installation and Configuration Guide

Version 2.1

June 11, 2010

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Java Toolkit

This product includes the Web Services Description Language for Java Toolkit 1.5.1 (WSDL4J). The WSDL4J binary code is located in the file `wsdl4j.jar`.

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Introduction to the Documentation

[Conventions Used in this Document](#)

[DataFlux References](#)

Conventions Used in this Document

This document uses several conventions for special terms and actions.

Typographical Conventions

The following typographical conventions are used in this document:

Typeface	Description
Bold	Text in bold signifies a button or action
<i>italic</i>	Identifies document and topic titles
monospace	Typeface used to indicate filenames, directory paths, and examples of code

Syntax Conventions

The following syntax conventions are used in this document:

Syntax	Description
[]	Brackets [] are used to indicate variable text, such as version numbers
#	The pound # sign at the beginning of example code indicates a comment that is not part of the code
>	The greater than symbol is used to show a browse path, for example Start > Programs > DataFlux Data Management Studio 2.1 > Documentation.

Reference Publications

This document might reference other DataFlux® publications including:

DataFlux Data Management Studio User's Guide

DataFlux Authentication Server Administrator's Guide

DataFlux Authentication Server User's Guide

DataFlux Data Management Server Administrator's Guide

DataFlux Data Management Server User's Guide

DataFlux Federation Server Administrator's Guide

DataFlux Federation Server User's Guide

DataFlux Expression Language Reference Guide

DataFlux Quality Knowledge Base Online Help

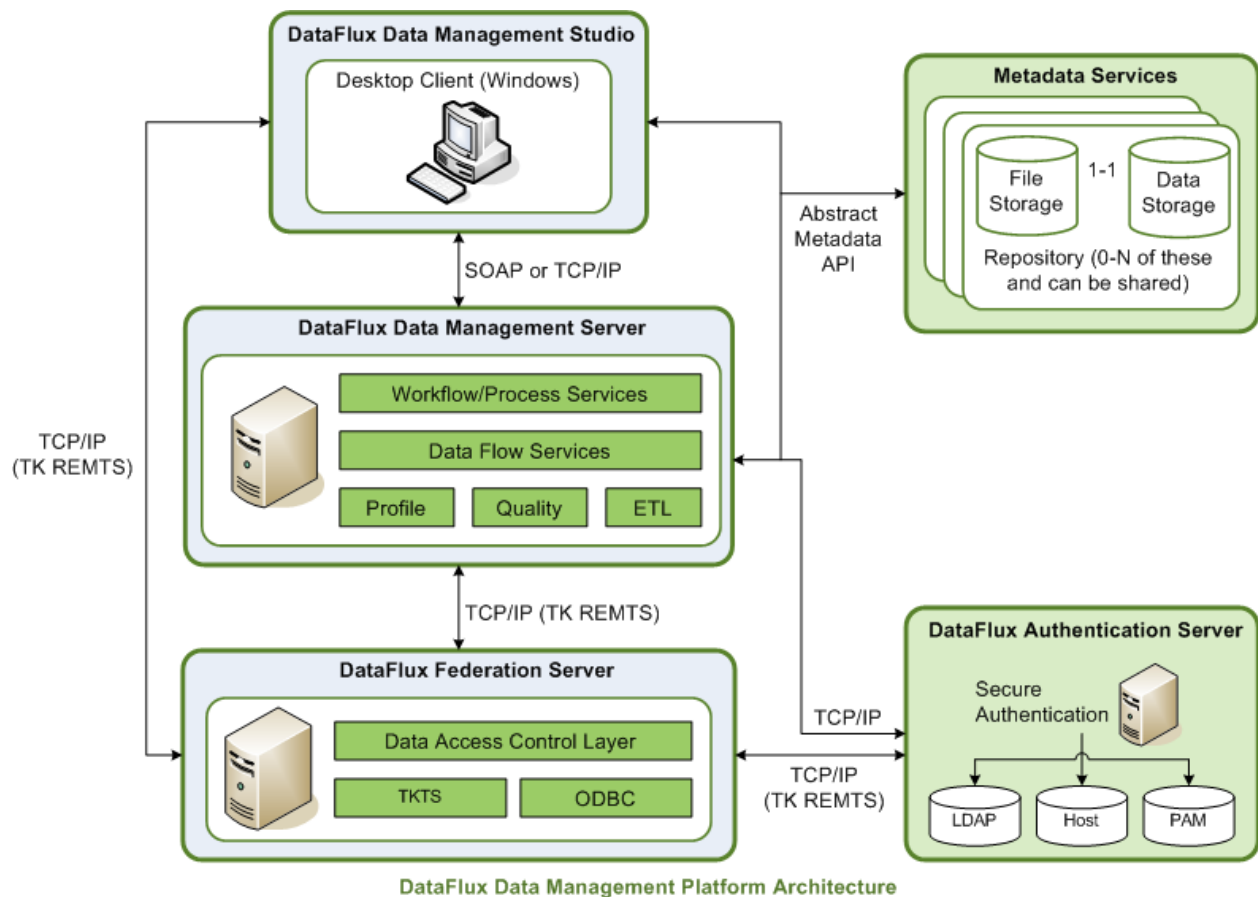
Understanding Data Management Studio

[Overview of the DataFlux Data Management Platform](#)

[Overview of DataFlux Data Management Studio](#)

Overview of the DataFlux Data Management Platform

The DataFlux Data Management Platform enables you to discover, design, deploy and maintain data across your enterprise in a centralized way. The following diagram illustrates the components of the platform.



DataFlux Data Management Studio is a data management suite that combines data quality, data integration and Master Data Management (MDM).

When you create profiles, business rules, jobs, and other objects in Data Management Studio, these objects are stored in repositories. Profiles, rules, tasks and some other objects in a repository are stored in database format. You can specify a separate storage location

for objects that are stored as files, such as data jobs, process jobs, and queries. You can create a private repository for your own use, or you can create a shared repository that a number of people can use.

Data Management Studio can be used by itself or in combination with one or more of the following DataFlux servers:

- The DataFlux Data Management Server provides a scalable server environment for large Data Management Studio jobs. Jobs can be uploaded from Data Management Studio to a Data Management Server, where the jobs are executed.
- The DataFlux Federation Server manages TKTS data connections (Threaded Kernel Table Services) and the access privileges for these connections.
- The DataFlux Authentication Server centralizes the management of users, groups, and database credentials.

Overview of DataFlux Data Management Studio

DataFlux Data Management Studio is a data management suite that combines data quality, data integration and Master Data Management (MDM). It provides a process and technology framework to deliver a single, accurate and consistent view your enterprise data.

Data Management Studio gives you the ability to:

- Merge customer, product or other enterprise data
- Unify disparate data through a variety of data integration methods (batch, real time, virtual)
- Verify and complete address information
- Integrate disparate data sets and ensure data quality
- Transform and standardize product codes
- Monitor data for compliance in batch or real time
- Manage metadata hierarchy and visibility

Data Management Studio enables you to establish an effective an effective data governance platform. It provides a powerful interface for:

- **Metadata analysis** - Understand what data resources you have and extract and organize metadata from any source anywhere throughout the enterprise
- **Data profiling** - Execute a complete assessment of your organization's data, examining the structure, completeness, suitability and relationships of your information assets
- **Data quality** - Correct data problems, standardize data across sources and create an integrated view of corporate information

- **Data integration** - Consolidate and migrate data from any data structure using extract-transform-load (ETL) methods, extract-load-transform (ELT) methods, as well as virtual or real-time data integration.
- **Data monitoring** - Build business rules for quality, providing a foundation for an ongoing, highly-customized data governance program
- **Address standardization** - Standardize and verify address information for more than 240 countries around the world
- **Data enrichment** - Add new data elements to customer and product data to meet the needs of your organization

Data Management Studio is the core interface of the DataFlux Data Management Platform. This platform enables you to discover, design, deploy and maintain data across your enterprise in a centralized way.

Installation

[System Requirements](#)

[Supported Platforms](#)

[Supported Databases](#)

[Licensing](#)

System Requirements

System requirements for DataFlux Data Management Studio are:

Requirement	Minimum	Recommended
Platforms	Microsoft® Windows XP/Vista®	Microsoft Windows XP Professional
Processor	Intel® Pentium® 4 - 1.2 GHz or higher	Intel Pentium 4 - 2.2 GHz or higher
Memory (RAM)	512 MB	2+ GB
Disk Space	5 GB	10+ GB

Supported Databases

The following databases are supported with DataFlux Data Management Studio.

Database	Driver
Pervasive® Btrieve® 6.15	Btrieve
Clipper	dBASE File
dBASE® IV and V	dBASE
FoxPro® 2.5, 2.6, and 3.0	dBase
FoxPro 6.0 (with 3.0 functionality only)	dBase
FoxPro 3.0 Database Container	dBase
Greenplum™ 3.1, 3.2, and 3.3	Greenplum Wire Protocol
IBM® DB2® v9.1, v9.5, and v9.7 for Linux, UNIX, and Windows	DB2 Wire Protocol
IBM DB2 Universal Database (UDB) v7.x, v8.x for Linux, UNIX, and Windows	DB2 Wire Protocol
IBM DB2 v9.1 for z/OS	DB2 Wire Protocol
IBM DB2 UDB v7.x and v8.1 for z/OS	DB2 Wire Protocol
IBM DB2 UDB V5R1, V5R2, V5R3, V5R4, and V6R1 for iSeries	DB2 Wire Protocol
IBM Informix® Dynamic Server 11 and 11.5	Informix
IBM Informix Dynamic Server 11 and 11.5	Informix Wire Protocol
Informix© Dynamic Server 9.2, 9.3, 9.4, and 10	Informix
Informix Dynamic Server 9.2, 9.3, 9.4, and 10	Informix Wire Protocol

Database	Driver
Microsoft® SQL Server® 7.0	SQL Server Classic Wire Protocol
Microsoft SQL Server 2000	SQL Server Classic Wire Protocol
Microsoft SQL Server 2005	SQL Server Classic Wire Protocol
Microsoft SQL Server 2008	SQL Server Classic Wire Protocol
Microsoft SQL Server 2000	SQL Server Native Wire Protocol
Microsoft SQL Server 2005	SQL Server Native Wire Protocol
Microsoft SQL Server 2008	SQL Server Native Wire Protocol
MySQL® 5.0 and 5.1	MySQL Wire Protocol
Oracle® 8.0.5+	Oracle
Oracle 8i R2, R3 (8.1.6 and 8.1.7)	Oracle
Oracle 9i R1, R2 (9.0.1 and 9.2)	Oracle
Oracle 10g R1 and R2 (10.1 and 10.2)	Oracle
Oracle 11g R1 and R2 (11.1 and 11.2)	Oracle
Oracle 8i R2, R3 (8.1.6 and 8.1.7)	Oracle Wire Protocol
Oracle 9i R1 and R2 (9.0.1 and 9.2)	Oracle Wire Protocol
Oracle 10g R1 and R2 (10.1 and 10.2)	Oracle Wire Protocol
Oracle 11g R1 and R2 (11.1 and 11.2)	Oracle Wire Protocol
Corel® Paradox® 4, 5, 7, 8, 9, and 10	ParadoxFile
Pervasive.SQL® 7.0 and 2000	Btrieve
PostgreSQL 8.2, 8.3, and 8.4	PostgreSQL Wire Protocol
Sybase® Adaptive Server® 11.5 and 11.9	Sybase Wire Protocol
Sybase Adaptive Server Enterprise 12.0, 12.5x, and 15	Sybase Wire Protocol
Teradata® 12.0	Teradata
Teradata V2R6.0, V2R6.1, and V2R6.2	Teradata
Text Files	Text
XML Documents (tabular and hierarchical formatted)	XML

Supported Platforms

The following platforms are supported for DataFlux Data Management Studio.

Operating System	Bit	Chip	SAS Platform
Microsoft® Windows HPC Server® 2008 Edition	32	x64	9.2
Microsoft Windows Server 2003, Data Center Edition (SP1 and SP2)	32	x64	9.2
Microsoft Windows Server 2003, Data Center Edition (SP1 and SP2)		x86	9.1.2

Operating System	Bit	Chip	SAS Platform
Microsoft Windows Server 2003, Data Center Edition - 32 bit compatibility mode (SP1 and SP2)	64	x64	
Microsoft Windows Server 2003, Enterprise Edition (SP1 and SP2)	32	x64	9.2
Microsoft Windows Server 2003, Enterprise Edition (SP1 and SP2)		x86	9.1.2
Microsoft Windows Server 2003, Enterprise Edition - 32 bit compatibility mode (SP1 and SP2)	64	x64	
Microsoft Windows Server 2003, Small Business Server (SP1 and SP2)	32	x64	9.2
Microsoft Windows Server 2003, Small Business Server (SP1 and SP2)		x86	9.1.2
Microsoft Windows Server 2003, Standard Edition (SP1 and SP2)	32	x64	9.2
Microsoft Windows Server 2003, Standard Edition (SP1 and SP2)		x86	9.1.2
Microsoft Windows Server 2003, Standard Edition - 32 bit compatibility mode (SP1 and SP2)	64	x64	
Microsoft Windows Server 2003, Web Edition (SP1 and SP2)	32	x64	9.2
Microsoft Windows Server 2003, Web Edition (SP1 and SP2)		x86	9.1.2
Microsoft Windows Server 2008, Data Center Edition	32	x64	9.2
Microsoft Windows Server 2008, Data Center Edition		x86	9.1.2
Microsoft Windows Server 2008, Data Center Edition - 32 bit compatibility mode	64	x64	
Microsoft Windows Server 2008, Data Center without Hyper-V Edition	32	x64	9.2
Microsoft Windows Server 2008, Data Center without Hyper-V Edition		x86	9.1.2
Microsoft Windows Server 2008, Data Center without Hyper-V Edition - 32 bit compatibility mode	64	x64	
Microsoft Windows Server 2008, Enterprise Edition	32	x64	9.2
Microsoft Windows Server 2008, Enterprise Edition		x86	9.1.2
Microsoft Windows Server 2008, Enterprise Edition - 32 bit compatibility mode	64	x64	
Microsoft Windows Server 2008, Enterprise without Hyper-V Edition	32	x64	9.2
Microsoft Windows Server 2008, Enterprise without Hyper-V Edition		x86	9.1.2
Microsoft Windows Server 2008, Enterprise without Hyper-V Edition - 32 bit compatibility mode	64	x64	
Microsoft Windows Server 2008, Foundation Edition	32	x64	9.2
Microsoft Windows Server 2008, Foundation Edition		x86	9.1.2
Microsoft Windows Server 2008, Foundation Edition - 32 bit compatibility mode	64	x64	
Microsoft Windows Server 2008, Small Business Server	32	x64	9.2
Microsoft Windows Server 2008, Small Business Server		x86	9.1.2

Operating System	Bit	Chip	SAS Platform
Microsoft Windows Server 2008, Small Business Server- 32 bit compatibility mode	64	x64	
Microsoft Windows Server 2008, Standard Edition	32	x64	9.2
Microsoft Windows Server 2008, Standard Edition		x86	9.1.2
Microsoft Windows Server 2008, Standard Edition - 32 bit compatibility mode	64	x64	
Microsoft Windows Server 2008, Standard without Hyper-V Edition		x86	9.1.2
Microsoft Windows Vista® Business	32	x64	9.2
Microsoft Windows Vista Business- 32 bit compatibility mode	64	x64	
Microsoft Windows Vista Enterprise	32	x64	9.2
Microsoft Windows Vista Enterprise- 32 bit compatibility mode	64	x64	
Microsoft Windows Vista Ultimate	32	x64	9.2
Microsoft Windows Vista Ultimate- 32 bit compatibility mode	64	x64	
Microsoft Windows XP Professional (SP2)	32	x64	9.2
Microsoft Windows XP Professional (SP2)		x86	9.1.2
Microsoft Windows XP Professional (SP2)- 32 bit compatibility mode	64	x64	
Microsoft Windows 7 Enterprise - 32 bit compatibility mode	64	x64	
Microsoft Windows 7 Home Basic- 32 bit compatibility mode	64	x64	
Microsoft Windows 7 Home Premium- 32 bit compatibility mode	64	x64	
Microsoft Windows 7 Professional - 32 bit compatibility mode	64	x64	
Microsoft Windows 7 Starter - 32 bit compatibility mode	64	x64	
Microsoft Windows 7 Ultimate - 32 bit compatibility mode	64	x64	

Licensing Data Management Studio

Three licensing options are available for Data Management Studio. These options are:

DataFlux License Server - This option means that a License Server has been bought and set up and houses the license file to be used across the enterprise for all Studio installations. The value to put in the text field looks something like "@server" where "server" could equal DNS name or IP.

DataFlux License File - If a customer has requested a specific license file from DataFlux, he or she selects the path and file for this option. Customers can request a license file through MyPortal (<http://www.dataflux.com/MyDataFlux-Portal>) on the DataFlux web site. To generate a Host ID before submitting, click **Start > DataFlux Host ID** option.

SAS License File - SAS customers would require the license file provided by SAS.

DataFlux License Server

The Data Management Studio licensing model uses a License Manager to manage specific licenses over concurrent instances.

The following is a list of supported platforms for a license server installation:

Platform
AIX® 64-bit - Power PC™ RS/6000®
HP-UX® 64-bit - HP 64-bit
HP-UX 64-bit - Intel® Itanium®
Microsoft® Windows® 32-bit - x86
Red Hat® Enterprise Linux 32-bit - x86 / AMD Opteron™
Red Hat Enterprise Linux 64-bit - Intel Xeon™ / AMD Opteron
Solaris™ 64-bit - SPARC® 64-bit
Solaris 64-bit - AMD Opteron
SUSE® Linux Enterprise Server 32-bit - x86 / AMD Opteron
SUSE Linux Enterprise Server 64-bit - Intel Xeon / AMD Opteron

To install the License Server Manager:

1. Download the **License Manager** from the DataFlux MyPortal site <http://www.dataflux.com/MyDataFlux-Portal>.
2. Install the **License Manager** on your license server by double-clicking the installation package and following the instructions.
3. Run the **lmhostid** command, which generates a machine code.
4. Email the machine code to your DataFlux representative.
5. Obtain the license file from your DataFlux representative. In Windows, save the license file to your Data Management Studiolicence directory. In UNIX, save the file to the etc directory.
6. Start the license server.

You can specify the licensing file or server by using the DataFlux License Manager during the Data Management Studio installation or by launching the License Manager after installation is complete.

To specify licensing location using the License Manager, click **Start > Programs > DataFlux Data Management Studio > License Manager**. In the License Manager dialog, select the **Licensing Method** and enter the **Location** of your license server or file.

DataFlux License File for Windows

To configure your license file for Studio in Windows, complete the following steps:



Note: In order to set or change the license location, you must use the license manager application.

1. Run the DataFlux Host ID application to generate a Host ID for your Data Management Studio.
2. From the DataFlux Data Management Studio main menu, click **Help > DataFlux Host ID**.
3. Contact your DataFlux representative and provide the DataFlux Host ID to obtain your license file.
4. Save the license file to *install_drive:\Program Files\DataFlux\Data Management Studio\version\license_file*.
5. Make note of the full path to the licensing location, including the file name. To specify the licensing location by using the License Manager, click **Start > Programs > Data Management Studio > License Manager**. In the **License Manager** dialog, select **DataFlux license file**, and enter the **Location**.

SAS License File

If you have obtained a license from SAS, complete these steps:

1. Set the license location setting in the dfexec.cfg configuration file to point to your license file.
2. Run the following command:

```
./bin/dflm -m
```
3. Set the license type to **SAS license file**.

Licensing Notification

For DataFlux licenses, thirty days prior to license expiration, you will receive a message that your license will expire in a certain number of days. If you have a SAS license (setinit), this message is defined by the warning period. This is configurable through SAS.

 **Note:** DataFlux licenses are not configurable.

Contact your DataFlux sales representative to renew your DataFlux product license(s).

Configuration

[Data Management Studio Configuration Files](#)

[Main Data Management Studio Options](#)

[Configuration Directives for Data Jobs](#)

[Data Access Component Directives](#)

[Licensing Data Management Studio](#)

Data Management Studio Configuration Files

When Data Management Studio (Studio) starts, it will determine which configuration options are in effect by reading a series of configuration files, looking in the environment, and reading the command line. If there are two settings of the same name that exist in different configuration settings, the order in which the settings are read determines which value is used. The last value read is used as the configuration setting.

Studio reads configuration settings in this order:

1. app.cfg in the etc folder where Studio is installed
2. app.cfg in a user folder, such as:
`drive:\Users\USERNAME\AppData\Roaming\DataFlux\DataManagement\version`
3. application-specific configuration files in the etc folder, such as ui.cfg or dis.cfg
4. application-specific configuration files in a user folder
5. macros folder in the etc folder. The default path to the macros folder can be overridden with BASE/MACROS_PATH setting in the above configuration files.
6. macros folder in a user folder
7. environment variables
8. command-line options if applicable

Main Data Management Studio Options

The configuration options that are specified in the Data Management Studio app.cfg file are listed in the following table:

Option	Purpose	In App.cfg By Default?	Source	Notes
General Application				
BASE/LIBRARY_PATH	Path for Java jar dependencies	No	Optional	Determined by startup code (DFEXEC_HOME/lib)
BASE/PLUGIN_PATH	Path used by all subsystems to find plugins	No	Optional	Determined by startup code
BASE/EXE_PATH	Path containing executables	No	Optional	Calculated
BASE/PRIMARY_LICENCE	Primary licensing method	Yes	Req. by Base	Must be set in the DATAFLUX or SAS configuration file
BASE/PRIMARY_LICENCE_LOC	Location of the primary license file or server	Yes	Req. by Base	Must be set in the configuration file
BASE/SECONDARY_LICENCE	Secondary licensing method	Yes (commented out)	Req. by Base	Must be set in the DATAFLUX or SAS configuration file
BASE/SECONDARY_LICENCE_LOC	Location of the secondary license file or server	Yes (commented out)	Req. by Base	Must be set in the configuration file
BASE/LOGCONFIG_PATH	Full path to the log configuration file	No	Optional	Must be set in the configuration file (defaults to logging.xml)
BASE/MESSAGE_PATH	Path to the message directory	No	Optional	Determined by startup code
BASE/MESSAGE_LOCALE	Error message locale	No	Optional	If not specified, determined from the system locale

Option	Purpose	In App.cfg By Default?	Source	Notes
BASE/MESSAGE_LEVEL	Error level of messages	No	Optional	0 (or not specified) - normal messages; 1 - includes source file and line number in messages
BASE/USER_PATH	Path for user configuration files	No	Optional	Determined by dfcurver
BASE/REPOS_SYS_PATH	System path for repository configuration files	No	Optional	Automatically determined
BASE/REPOS_USER_PATH	User directory for repository configuration files	No	Optional	Determined by dfcurver
BASE/TEMP	Temporary directory	No	Optional	If not specified, inherits the value of the TEMP environment variable
BASE/DATE_FORMAT	Specific date formats	No	Optional	If specified, iso8601
BASE/APP_VER	Application version number	No	Optional	Defaults to 2.1
BASE/UPDATE_LEVEL	Application update level	No	Optional	Defaults to 0. Could be used as a minor revision number
PROC_TXT_MACRO_TEST		No		
DAC Logging				
DAC/DFTKLOGFILE	DFTK logging	No	Optional	Filename
DAC Logging (New in Data Management Studio)				
DAC/TKTSLOGFILE	TKTS logging	Yes	Optional	Filename
DAC/DFTKDISABLECEDA	Disables CEDA support	No	Optional	"Yes" turns it on
DAC/SAVEDCONNSYSTEM	Location of system saved connections	No	Optional	Defaults to DFEXEC_HOME/etc/dsn
DAC/SAVEDCONNUSER	Location of user saved connections	No	Optional	Defaults to your application directory/DataFlux/dac/9.0
DAC/DSN	DSN directory for TKTS dsns	No	Optional	Defaults to DFEXEC_HOME/etc/dftkdsn
DAC/DFTK_PROCESS	Run DFTK out of process	No	Optional	"Yes" turns it on; off by default


Option	Purpose	In App.cfg By Default?	Source	Notes
DAC/DFTK_PROCESS_TKPATH	TKTS path for DFTK out of process	No	Optional	Defaults to a core/sasext dir off the executable dir
Profile (New in Data Management Studio)				
PROF/DEBUG_MODE	Frequency distribution engine debug mode	Yes (commented out)	Optional	0 not debug mode, 1 debug mode: default is not debug mode.
PROF/PER_TABLE_BYTES	Frequency distribution engine per table bytes	Yes (commented out)	Optional	default is -1 (frequency distribution engine default)
QKB				
QKB/PATH	Path to QKB	Yes (commented out)	Req. by QKB	Maintained by the QKB installation
QKB/SURFACEALL	Surfaces all parse definitions	Yes	Optional	Default is NO
QKB (New in Data Management Studio)				
QKB/COMPATVER		Yes	Optional	Possible values: dfpower82, unity21 Default: unity21
QKB/ALLOW_INCOMPAT		Yes	Optional	Default is NO
QKB/ON_DEMAND		Yes	Optional	Default is YES
Architect Base				
BASE/SORTBYTES	Specifies the bytes used in sorting	Yes	Optional	
CLUSTER/BYTES	Specifies the bytes used in clustering	Yes (commented out)	Optional	
CLUSTER/LOG	Specifies whether clustering log is needed	Yes (commented out)	Optional	
FRED/LOG	Specifies whether FRED log is needed	No	Optional	
BASE/TEMP		Yes (commented out)		

Option	Purpose	In App.cfg By Default?	Source	Notes
BASE/EMAILCMD	Specifies the command used to send email	Yes (commented out)	Required	Can include %T and %B where %T will be replaced with the recipient and %B will be a file containing the body of the message; also used by monitor event
MONITOR/REPOFILE		N/A		
Architect Base (New in Data Management Studio)				
BASE/SORTMERGES	Enables merge during sort	No	Optional	
BASE/SORTTEMP	Specifies the temporary path for sorts	No	Optional	
BASE/SORTTHREADS	Specifies the number of sort threads	No	Optional	
ARCHITECT/AutoPass Thru	Client option to set mappings	No	Optional	Maintained by client; choices are 0 (target), 1 (Source and Target), and 2 (All)
Architect Verify				
VERIFY/CACHESIZE	Specifies a percentage value	Yes	Optional	
VERIFY/CANADA	Specifies the path to Canadian data	Yes (commented out)	Req. by SERP nodes	Maintained by Canada installation
VERIFY/GEO	Specifies the geo/phone path	Yes (commented out)	Req. by Geo	Maintained by Geo installation
VERIFY/PRELOAD	Specifies the preload string for verify	Yes, but blank	Optional	Valid values are ALL or empty string
VERIFY/USPS	Specifies the USPS data path	Yes	Req. by USPS	Maintained by USPS installation
VERIFY/UPSPINST	Determines whether the USPS data is installed	Yes	Required	Maintained by USPS installation
VERIFYWORLD/DB	Platon data path Specifies the	Yes (commented out)	Req. for Platon	Path maintained by component installation

Option	Purpose	In App.cfg By Default?	Source	Notes
VERIFYWORLD/UNLK	Specifies the Platon library universal unlock code	Yes (commented out)	Req. for Platon	Path maintained by component installation
Architect Verify (New in Data Management Studio)				
CLUSTER/TEMP	Specifies the cluster temporary path	No	Optional	
BASE/FTPGETCMD	Specifies the command used for Ftp Get Functionality	Yes (commented out)	Required	Should default in the install, as follows: <ul style="list-style-type: none">• %U: Replace with username• %P: Replace with password• %S: Replace with server• %T: Replace with local directory• %F: Replace with Files to download, multiple separated by spaces• %L: Replace with the log file to pipe the output
BASE/FTPPUTCMD	Specifies the command used for Ftp Put Functionality	Yes (commented out)	Required	
IntelliServer				
DFCLIENT/CFG	Used for dfIntelliServer	No	Required	Maintained by Intelliserver installation; typical location is 'C:\Program Files\DataFlux\dfIntelliServer\etc\dfclient.cfg; modify the dfclient.cfg file to point to the server and port
Other				
EXPRESS_MAX_STRING_LENGTH	Specifies the Expression node in architect	No	Optional	Default maximum length of any string in this node is 32k. This enables specifying a larger value in bytes

Configuration Directives for Data Jobs

The following table lists the configuration settings for Data Management Studio data jobs:


Setting	Description
arch config	<p>This path indicates the location of the macro definitions file. If not set, this value defaults to \etc\macros.cfg (batch jobs and real-time services).</p> <pre># Windows Example arch config = C:\Program Files\DataFlux\Data Management Studio\[version]\etc\macros.cfg # UNIX Example arch config = /opt/dataflux/aix/[version]/dfpower/etc/macros.cfg</pre>
canada post db	<p>This setting indicates the path to the Canada Post database for Canadian address verification (batch jobs and real-time services).</p> <pre># Windows Example canada post db = C:\Program Files\DataFlux\Data Management Studio\[version]\mgmtrsrc\RefSrc\SERPData # UNIX Example canada post db = /opt/dataflux/aix/dfpower/[version]/mgmtrsrc/refsrc/ serpdata</pre>
checkpoint	<p>Sets the minimum time between log checkpoints, allowing control of how often the log file is updated. Add one of the following to indicate the unit of time: h, min, s (batch jobs and Profile jobs).</p> <pre># Windows or UNIX Example checkpoint = 15min</pre>
cluster memory	<p>Cluster memory is the amount of memory to use per cluster of match-coded data. Use this setting if you are using clustering nodes in Data Management Studio (batch jobs and real-time services). This setting may affect memory allocation.</p> <p> Note: This setting must be entered in megabytes, for example, 1 GB should be set to 1024 MB.</p> <pre># Windows or UNIX Example cluster memory = 64MB</pre>
copy qas files	<p>When set to yes, the QAS config address verification files are copied to the current directory if they are new. The setting defaults to no (batch jobs).</p> <pre># Windows or UNIX Example copy qas files = yes</pre>


Setting	Description
datalib path	<p>This is the path to the verify data libraries (batch jobs and real-time services), excluding USPS data. All values containing special characters or spaces must be enclosed in single quotes.</p> <pre># Windows Example datalib path = 'C:\Program Files\DataFlux\DIS\[version]\data'</pre> <pre># UNIX Example datalib path = '/opt/dataflux/hpux/dis/[version]/data'</pre>
dfclient config	<p>Sets the path for the dfIntelliServer® client configuration file, if using dfIntelliServer software. The client can be local or loaded on another machine (Integration Server, dfIntelliServer). This setting is necessary if using distributed nodes in a data job.</p> <pre># Windows Example dfclient config = C:\Program Files\DataFlux\dfIntelliServer\etc\dfclient.cfg</pre> <pre># UNIX Example dfclient config = /opt/dataflux/solaris/dfintelliserver/etc/dfclient.cfg</pre>
enable dpv	<p>To enable Delivery Point Validation (DPV¹) processing for US Address Verification, set to yes. It is disabled by default (batch jobs and real-time services).</p> <pre># Windows or UNIX Example enable dpv = yes</pre>
enable elot	<p>To enable USPS eLOT processing for US Address Verification, set to yes. It is disabled by default (batch jobs and real-time services).</p> <pre># Windows or UNIX Example enable elot = yes</pre>
enable lacs	<p>To enable Locatable Address Conversion System (LACS²) processing, set to yes. It is disabled by default (batch jobs and real-time services).</p> <pre># Windows or UNIX Example enable lacs = yes</pre>
enable rdi	<p>Enables Residential Delivery Indicator (RDI³) processing for US Address Verification. The default is no (batch jobs and real-time services).</p> <pre># Windows or UNIX Example enable rdi = yes</pre>

¹Delivery Point Validation (DPV) specifies if the given address is a confirmed delivery point as opposed to being within a valid range of house numbers on the street.

²US Locatable Address Conversion Service (LACS) is a product/system in a different USPS product line that allows mailers to identify and convert a rural route address to a "city-style" address.

³Residential Delivery Indicator (RDI)

Setting	Description
fd table memory	<p>Sets the memory size for calculating frequency distribution. If this is not set, a default value of 262,144 bytes will be used on 32-bit systems and 524,288 on 64-bit systems. This memory refers to the number of bytes used per field while processing a table. When processing tables with many fields, this number may be reduced to alleviate memory issues. The larger the value, the more efficient the calculation will be. A minimum value of 4096 bytes exists (8192 on 64 bit systems).</p> <p> Note: This is a separate parameter from the frequency distribution memory cache size that is specified on a per job basis.</p> <pre># Windows or UNIX Example fd table memory = 65536</pre>
ftp get command	<p>Used to receive files by FTP. During the DIS installation, the operating system is scanned for the following FTP utilities: NcFTP, Perl LWP Modules, cURL, and Wget. If multiple utilities are found, NcFTP and Perl LWP Modules are given precedence and FTP get/put commands are written to the dfexec.cfg file.</p> <pre># Windows or UNIX Example ftp get command = "C:\Program Files\NcFTP\ncftpget.exe" -d %L -u %U -p %P %S %T %F'</pre>
ftp put command	<p>Used to send files by FTP. During the DIS installation, the operating system is scanned for the following FTP utilities: NcFTP, Perl LWP Modules, cURL, and Wget. If multiple utilities are found, NcFTP and Perl LWP Modules are given precedence and FTP get/put commands are written to the dfexec.cfg file.</p> <pre># Windows or UNIX Example ftp put command = "C:\Program Files\NcFTP\ncftpput.exe" -d %L -u %U -p %P %S %T %F'</pre>
geo db	<p>Sets the path to the database used for geocoding and coding telephone information (batch jobs and real-time services).</p> <pre># Windows Example geo db = C:\Program Files\DataFlux\Data Management Studio\[version]\mgmtrsrc\RefSrc\GeoPhoneData # UNIX Example geo db = /opt/dataflux/hpux/dfpower/[version]/mgmtrsrc/fresrc/ geophonedata</pre>
java classpath	<p>Setting used for the Java Plugin that indicates the location of compiled Java code.</p> <pre># Windows Example java classpath = \usr\java14_64\jre\bin # UNIX Example java classpath = /usr/java14_64/jre/bin</pre>

Setting	Description
java debug	<p>Optional Java Plugin setting that enables debugging in the Java Virtual Machine (JVM™) used by Data Management Studio or Integration Server. The default setting is no.</p> <pre># Windows or UNIX Example java debug = yes</pre>
java debug port	<p>Optional Java Plugin setting that indicates the port number where the JVM listens for debugger connect requests. This can be any free port on the machine.</p> <pre># Windows or UNIX Example java debug port = 23017</pre>
java vm	<p>This Java Plugin setting references the location of the JVM DLL (or shared library on UNIX variants).</p> <pre># Windows Example java vm = [JRE install directory]\bin\server\jvm.dll # UNIX Example java vm = /[JRE install directory]/bin/server/jvm.dll</pre>
license location	<p>This is the license directory containing the license file (batch jobs, real-time services, and Profile jobs). It was labeled license dir in previous versions. All values containing special characters or spaces must be enclosed in single quotes.</p> <p> Caution: License location is only valid for UNIX. In Windows, set or change the license location using the License Manager. To access the License Manager application click Start > Programs > DataFlux Integration Server > License Manager.</p> <pre># UNIX Example license location = '/opt/dataflux/dis/[version]/etc'</pre>
mail command	<p>This command is used for sending alerts by email (Profile jobs). The command may contain the substitutions %T (To) and %B (Body). %T will be replaced with the destination email address and %B with the path of a temporary file containing the message body. If %T and %B are left blank, these fields default to what was specified in the job. The -s mail server parameter specifies the mail server and is not necessary on UNIX systems. All values containing special characters or spaces must be enclosed in single quotes.</p> <p>Sendmail is the open source program in UNIX used for sending mail. In Windows, mail is sent by the vbscript mail.vbs.</p> <pre># Windows Example (where mail server is named mailhost) mail command = 'cscript -nologo "%DFEXEC_HOME%\bin\mail.vbs" -s mailhost "%T" < "%B"' # UNIX Example mail command = '/usr/lib/sendmail %T < %B'</pre>

Setting	Description
odbc ini	<p>Where the odbc.ini file is stored (batch jobs, Profile jobs, Integration Server).</p> <pre># Windows Example odbc ini = C:\Windows # UNIX Example odbc ini = /opt/dataflux/solaris</pre>
plugin dir	<p>Where plug-ins are located (batch jobs and real-time services, Profile jobs).</p> <pre># Windows Example plugin dir = C:\Program Files\DataFlux\dis\[version]\bin # UNIX Example plugin dir = /opt/dataflux/aix/dis/[version]/bin</pre>
qkb root	<p>Location of the Quality Knowledge Base (QKB) files. This location must be set if using steps that depend on algorithms and reference data in the QKB, such as matching or parsing (batch jobs and real-time services, Profile jobs).</p> <p> Note: If changes are made to the QKB make sure the server copy is updated as well.</p> <pre># Windows Example qkb root = C:\Program Files\DataFlux\qkb # UNIX Example qkb root = /opt/dataflux/qkb</pre>
repository config	<p>Location of the Profile repository config file (Profile jobs and Integration Server). All values containing special characters or spaces must be enclosed in single quotes.</p> <pre># Windows Example repository config = 'C:\Program Files\DataFlux\DIS\[version]\etc\profrepos.cfg' # UNIX Example repository config = '/opt/dataflux/linux/dis/[version]/etc/profrepos.cfg'</pre>
sort chunk	<p>Allows you to specify the amount of memory to use while performing sorting operations. The amount may be given in KB or MB, but not GB (batch jobs and real-time services).</p> <pre># Windows or UNIX Example sort chunk = 128MB</pre>
usps db	<p>This is the path to the USPS database required for US address verification (batch jobs and real-time services).</p> <pre># Windows Example usps db = C:\Program Files\DataFlux\verify\uspsdata # UNIX Example usps db = /opt/dataflux/aix/verify/uspsdata</pre>

Setting	Description
verify cache	<p>Indicates an approximated percentage (0 - 100) of the USPS reference data set that will be cached in memory prior to an address verification procedure (batch jobs and real-time services). This setting can affect memory allocation.</p> <pre># Windows or UNIX Example verify cache = 30</pre>
verify preload	<p>Allows you to specify a list of states whose address data will be preloaded. Preloading increases memory usage, but significantly decreases the time required to verify addresses in a state (batch jobs and real-time services).</p> <pre># Windows or UNIX Examples verify preload = NY TX CA FL verify preload = ALL</pre>
world address db	<p>Sets the path where AddressDoctor data is stored.</p> <pre># Windows Example world address db= 'C:\world_data\' # UNIX Example world address db= '/opt/dataflux/linux/worlddata'</pre>
world address license	<p>The license key provided by DataFlux used to unlock AddressDoctor country data. The value must be enclosed in single quotes (batch jobs and real-time services).</p> <pre># Windows or UNIX Example world address license = 'abcdefghijklmnop123456789'</pre>

Data Access Component Directives

The Data Access Component (DAC) enables you to connect to data using Open Database Connectivity (ODBC) and Threaded Kernel Table Services (TKTS). ODBC database source names (DSNs) are not managed by the DAC, but by the Microsoft ODBC Administrator. TKTS DSNs, however, are managed by the DAC, and TKTS connections are stored in a TKTS DSN directory.

Both DataFlux Data Management Studio (Studio) and the DataFlux Data Management Server can use the DAC. The default DAC directives for Data Management Studio are specified in its app.cfg file. You can also specify DAC directives in Studio's macros.cfg file. These settings apply when you use Studio to access data via a TKTS connection without using a DataFlux Federation Server. For information about Studio configuration files, see [Data Management Studio Configuration Files](#).

DAC directives can also be specified for a DataFlux Data Management Server if one is installed at your site. For more information, see the *DataFlux Data Management Server Administrator's Guide*.



Note: The default DAC directives should be satisfactory for most sites. Change these settings only if you have special needs.

Setting	Description
User saved connection	<p>Specifies where to find user-saved connections.</p> <p>The DAC/SAVEDCONNUSER configuration value may specify the path. If it does not, the DAC checks the following values and locations, based on your operating system:</p> <p>Windows - The application settings directory for the user, which is usually in the %APPDATA% directory, in the %APPDATA%\DataFlux\dac\version subdirectory.</p> <p>UNIX - The \$HOME/.dfpower/dsn directory.</p>
System saved connection	<p>Specifies where to find system saved connections.</p> <p>The DAC/SAVEDCONNSYSTEM configuration value may specify the path. If it does not, the DAC checks the following values and locations, based on your operating system:</p> <p>Windows - The \etc\dsn subdirectory, which is in the installation directory.</p> <p>UNIX - The \etc\dsn subdirectory, which is in the installation directory.</p>
TKTS DSN directory	<p>Specifies the path where TKTS DSNs are stored in XML files.</p> <p>The DAC/DSN configuration value should specify the directory. If it does not, the DAC checks the following locations, based on your operating system:</p> <p>Windows - The \etc\dsn subdirectory, which is in the installation directory.</p> <p>UNIX - The \etc\dsn subdirectory, which is in the installation directory.</p>
Run DFTK out of process	<p>Specifies whether to run TKTS out of process, allowing you to perform troubleshooting.</p> <p>The DAC/DFTK_PROCESS configuration value should specify any non-null value, for example, yes.</p>

Setting	Description
TK Path	<p>Specifies where TK files are located. This setting is only applicable if you are running Data Factory Took Kit (DFTK) out of process. The dftksrv path and core directory should be specified.</p> <p>The DAC/DFTK_PROCESS_PATH configuration value may specify the TK path. If it does not, the DAC checks the following locations, based on your operating system:</p> <p>Windows - \$DFEXEC_HOME\bin;\$DFEXEC_HOME\bin\core\sasext</p> <p>UNIX - \$DFEXEC_HOME/lib/tkts</p>
DFTK log file	<p>Specifies the log file that interactions with the DFTKSRV layer and is only useful for debugging issues specific to dftksrv. This setting is only applicable if you are running DFTK out of process.</p> <p>The DAC/DFTKLOGFILE configuration value specifies the path to the DFTK log file.</p>
TKTS log file	<p>Specifies the log file that is produced by the TKTS layer and is useful for debugging tkts issues.</p> <p>The DAC/TKTSLOGFILE configuration value specifies the path to the TKTS log file.</p>
Disable CEDA	<p>Specifies whether to disable CEDA. This setting is only applicable to tkts connections.</p> <p>The DAC/DFTKDISABLECEDA configuration value, which should specify any non-null value, for example, yes.</p>
TKTS startup sleep	<p>Specifies how much time in seconds to delay between the start of the dftksrv program and the booting of TK. This setting is only applicable if you are running DFTK out of process.</p> <p>The DAC checks the following values and locations, based on your operating system:</p> <p>Windows - The registry for a tktsleep value.</p> <p>UNIX - This setting is not supported.</p>

Setting	Description
Command file execution	<p>Specifies a text file with SQL commands (one per line). These commands will run in turn, on any new connection that is made. For example, they can be used to set session settings. This is only implemented for the ODBC driver.</p> <p>The DAC/SAVEDCONNSYSTEM configuration value may specify the path to the saved connections. The DAC checks for files with the same filename as the DSN and a .sql extension.</p>



Note: Environment variables are specified as `$variable_name`. Typically, Data Management Studio will set environment variables to appropriate locations. For example, `$DFEXEC_HOME` is set to the Data Management Studio home directory.

Add-On Products

[Installing a Quality Knowledge Base](#)

[Installing Data Packs](#)

[Installing Supplemental Language Support](#)

Installing a Quality Knowledge Base

The Quality Knowledge Base (QKB) is a collection of files that store data and logic that define data management operations. DataFlux® software product reference the QKB when performing data management operations on your data.

Microsoft Windows

1. Insert the Quality Knowledge Base CD-ROM into the CD-ROM drive.
2. From the Microsoft® Windows® taskbar, click **Start** > **Run**.
3. Type [your_drive]:\QKB_[version].exe, where [your_drive] is replaced by the letter corresponding to your CD-ROM drive and where [version] is replaced by the QKB version you are installing (for example, QKB_CI_2009A).
4. Follow the instructions on the installation setup Wizard.
5. After you install the QKB, restart Data Management Studio.



Note: If you downloaded the QKB installation file from the DataFlux FTP site, then double-click on the name of the installation file in Windows Explorer.

For more information about the DataFlux Quality Knowledge Base products, refer to the DataFlux Web site or refer to the QKB online documentation.

Installing Data Packs

If you are using external data, install USPS, Software Evaluation and Recognition Program (SERP), Geocode/Phone, QuickAddress Software (QAS), World, or other enrichment data. Make a note of the path to each data source. You will need this information to update the dfwproc.cfg configuration file.

Downloading and Installing Data Packs

If your Data Management Studio installation includes a Verify license, you need to install the proper USPS, Canada Post, and Geocode databases to do address verification. If you are licensed to use QAS, you must acquire the postal reference databases directly from QAS for the countries they support. For more information, contact your DataFlux representative.

Data Packs for data enrichment are available for download on the MyDataFlux Portal at <http://www.dataflux.com/MyDataFlux-Portal>. To download data packs, follow these steps:

1. Obtain a user name and password from your DataFlux representative.
2. Log in to the MyDataFlux Portal.



Note: You may also retrieve the data pack installation files through FTP. Please contact DataFlux Technical Support for more information regarding downloading through FTP.

3. Click **Downloads > Data Updates**.
4. Select the installation file corresponding to your data pack and operating system to download.

Close all other applications and follow the procedure that is appropriate for your operating system.

Windows

Browse to and double-click the installation file to begin the installation wizard. If you are installing QAS data, you must enter a license key. When the wizard prompts you for a license key, enter your key for the locale you are installing.

UNIX

Installation notes accompany the download for each of the UNIX® data packs from DataFlux. For Platon and USPS data, check with the vendor for more information.



Notes:

1. Be sure to select a location to which you have write access and which has at least 430 MB of available space.
2. Download links are also available from the MyDataFlux Portal link at <http://www.dataflux.com/MyDataFlux-Portal>.

Configuring Enrichment Data

If you are using external data, install USPS, SERP, Geocode/Phone, QAS, World, or other enrichment data. You will need to specify the path to each data source in your configuration file.

Configuring USPS

Windows

Download **Windows Verify Data Setup** from the MyDataFlux Portal and run the installation file.

UNIX

Download **UNIX Verify Data Setup** from the MyDataFlux Portal and install the file on your Data Management Studio machine.

Setting	Description
usps db	<p>This is the path to the USPS database, which is required for US address verification (Architect batch jobs and real-time services).</p> <pre># Windows Example usps db = C:\Program Files\DataFlux\verify\uspsdata # UNIX Example usps db = /opt/dataflux/verify/uspsdata</pre>

Configuring DPV

Windows

Download **Windows Verify DPV Data Setup** from the MyDataFlux Portal, and run the installation file. Enable DPV by changing the **enable dpv** setting in the dfwproc.cfg file.

UNIX

Download **UNIX Verify DPV Data Setup**, under USPS in the Data Updates section of the MyDataFlux Portal. Enable DPV by changing the **enable dpv** setting in the dfwproc.cfg file.

Setting	Description
enable dpv	<p>To enable Delivery Point Validation (DPV) processing (for US Address Verification), set to yes. It is disabled by default (Architect batch jobs and real-time services).</p> <pre># Windows or UNIX Example enable dpv = yes</pre>

Configuring USPS eLOT

Windows

Download **Windows Verify eLOT Data Setup** from the MyDataFlux Portal, and run the installation file. Enable eLOT by changing the **enable elot** setting in the dfwproc.cfg file.

UNIX

Download **UNIX Verify eLOT Data Setup**, under USPS in the Data Updates section of the MyDataFlux Portal. Enable eLOT by changing the **enable elot** setting in the dfwproc.cfg file.

Setting	Description
enable elot	<p>To enable USPS eLOT processing (for US Address Verification), set to yes. It is disabled by default (Architect batch jobs and real-time services).</p> <pre># Windows or UNIX Example enable elot = yes</pre>

Configuring Canada Post (SERP)

Windows

Download the Microsoft Windows **SERP** data update from the MyDataFlux Portal and install the file on your Data Management Studio machine.

UNIX

Download the **SERP** data update that corresponds to your operating system from the MyDataFlux Portal and install the file on your Data Management Studio machine.

Setting	Description
canada post db	<p>This setting indicates the path to the Canada Post database for Canadian address verification (Architect batch jobs and real-time services).</p> <pre># Windows Example canada post db = C:\Program Files\DataFlux\Data Management Studio\version\mgmtrsrc\RefSrc\SERPData # UNIX Example canada post db = /opt/dataflux/aix/dfpower/version/mgmtrsrc/refsrc/serpdata</pre>

Configuring Geocode/Phone

Windows

Download the Windows **Geocode Data Pack** from the MyDataFlux Portal and install the file on your Data Management Studio machine.

UNIX

Download the UNIX **Geocode Data Pack** from the MyDataFlux Portal and install the file on your Data Management Studio machine.

Setting	Description
geo db	<p>This sets the path to the database for geocoding and coding telephone information (Architect batch jobs and real-time services).</p> <pre># Windows Example geo db = C:\Program Files\DataFlux\Data Management Studio\version\mgmtrsrc\RefSrc\GeoPhoneData # UNIX Example geo db = /opt/dataflux/hpux/dfpower/version/mgmtrsrc/fresrc/geophonedata</pre>

Configuring QAS Data

Windows

Contact QAS to download the latest data files for the countries you are interested in. Once you have downloaded the data sets, run the installation file and follow the instructions provided by the installation wizard.

UNIX

Run the installation file on a Windows machine to get the .dts, .tpx, and .zls files, then transfer all of these to your UNIX environment.

Configure the following QAS files located in the etc subdirectory of your Data Management Studio directory:

- In the qalcn.ini file, copy your license key for the specific country. Each license key must be entered on a separate line.
- In the qaworld.ini file, you must specify the following information:
 1. Set the value of the **CountryBase** parameter equal to one or more country prefixes for the countries you have installed. For example, to search using Australian mappings, add the following line to your qaworld.ini file:

```
CountryBase=AUS
```

Additional country prefixes can be added to the CountryBase parameter. Separate each prefix by a space. For a complete list of supported countries, see the International Address Data lists at the [QAS Web site](#).

2. Set the value of the **InputLineCount** parameter. Add the country prefix to the parameter name and set the count equal to the number of lines your input addresses contain. For example, to define four lines for Australia:

```
AUSInputLineCount=4
```

3. Set the value of the **AddressLineCount** parameter. Add the country prefix to the parameter name and set the count equal to the total number of lines. Then, specify which address element will appear on which line in the input address by setting the value of the **AddressLine** parameter equal to a comma-separated list of element codes. For example:

```
AUSAddressLineCount=4  
AUSAddressLine1=W60  
AUSAddressLine2=W60  
AUSAddressLine3=W60  
AUSAddressLine4=W60,L21
```

For more information on address elements and configuring the qaworld.ini file, see *QuickAddress Batch API Guide* and the country-specific data guides.

- In the qawserve.ini file, you must specify the following information for each parameter. If more than one country prefix is added to the parameter, each subsequent country prefix should be typed on a new line and preceded by a + (plus sign). For a complete list of supported countries, see the International Address Data lists at the [QAS Web site](#).

1. Set the value of the **DataMappings** parameter equal to the country prefix, country name, and country prefix. Separate each value by a comma. For example:

```
DataMappings=AUS,Australia,AUS
```

2. Set the value of the **InstalledData** parameter equal to the country prefix and installation path. Separate each value by a comma. For example:

```
InstalledData=AUS,C:\Program Files\QAS\Aus\
```

For more information on configuring the qawserve.ini file, see *QuickAddress Batch API Guide* and the country-specific data guides.



Note: If you have existing Architect jobs that include the Address Verification (QAS) node, your jobs will not work. You must reconfigure your existing jobs to work with the new QAS 6.x engine.

Configuring AddressDoctor Data

Windows and UNIX

If you are using AddressDoctor data for address verification, download the address files for the countries you are interested in from the MyDataFlux Portal at <http://www.dataflux.com/MyDataFlux-Portal>. You will also need the addressformat.cfg file included with the data files. The addressformat.cfg file must be installed in the directory where the address data files reside.

Change the world address license and world address database settings in the dfwproc.cfg file:

Setting	Description
world address license	This is the license key provided by DataFlux that is used to unlock the AddressDoctor country data. The value must be enclosed in single quotes (Architect batch jobs and real-time services). <code># Example (same for Windows and Unix)</code> <code>world address license = 'abcdefghijklmnop123456789'</code>
world address db	This sets the path to where the AddressDoctor data is stored. <code># Windows Example</code> <code>world address db= 'C:\world_data\'</code> <code># UNIX Example</code> <code>world address db= '/opt/dataflux/linux/worlddata'</code>

Configuring LACS and RDI Data

Windows and UNIX

Residential Delivery Indicator (RDI) and Locatable Address Conversion System (LACS) are provided by the United States Postal Service®. If you are using these products, simply download the data with your USPS data, and set the applicable settings in the dfwproc.cfg file:

Setting	Description
enable lacs	To enable LACS processing, set to yes. It is disabled by default (Architect batch jobs and real-time services). <code># Windows or UNIX Example</code> <code>enable lacs = yes</code>

Setting	Description
enable rdi	<p>This option enables or disables RDI processing (for US Address Verification). By default, it is set to <i>no</i> (Architect batch jobs and real-time services).</p> <pre># Windows or UNIX Example enable rdi = yes</pre>

Installing Supplemental Language Support

If you plan to use DataFlux Data Management Studio (Studio) for data that includes East Asian languages or right-to-left languages, you must install additional language support. Complete these instructions to install these packages:

1. Click **Start > Settings > Control Panel**.
2. Double-click **Regional and Language Options**.
3. In the Regional and Language Options dialog, select the **Languages** tab.
4. Under **Supplemental Language Support**, select the check boxes marked, **Install Files for complex script and right-to-left languages (including Thai)** and **Install files for East Asian languages**.
5. The Microsoft® Windows® installer guides you through the installation of these language packages.

Technical Support

[Frequently Asked Questions](#)

Frequently Asked Questions

The following questions and answers are designed to assist you when working with Data Management Studio (Studio). If you do not find your answer, please contact [DataFlux Technical Support](#).

[General](#)

[Jobs, Profiles, Data Explorations](#)

General

Why can't I save global options for DataFlux Data Management Studio under Microsoft Vista or Windows Server 2008?

DataFlux Data Management Studio saves global options to a user.config file that is hidden by default under Microsoft® Windows Vista® and Windows Server 2008. You must un-hide this file in order to save global options. The physical path to the file is as follows:

```
C:\Documents and Settings\<UserID>\Local Settings\Application  
Data\DataFlux\ProDesigner.vshost.exe_Url_<some_hash_code>
```

Why doesn't my screen refresh when I'm prompted to log into a table with ODBC?

If you access a table with ODBC, you might be prompted to log in to the database. If your screen does not refresh properly, try setting the **Show window contents while dragging option** for Microsoft Windows. Consult the documentation for your version of Windows for details about setting this option.

Jobs, Profiles, and Data Explorations

What is the maximum length for character variables (such as column names) in DataFlux Data Management Studio?

In data jobs, Data Input nodes and Data Output nodes support very long character fields for SAS data. They successfully work with 32K (32767 bytes) fields, which is the maximum length for character fields in SAS data sets. QKB-related nodes only process the first 256 characters and ignore the rest. Expression node string functions should work, including the mid() and len() functions. The 256 character limitation applies to regular expressions or QKB-related-functions.

In profiles, report metrics such as Data Type, Data Length, Unique Count, Frequency Distribution are correct for strings up to 32K in length. Pattern Frequency Distribution only uses the first 254 characters instead of 256.

How can I specify Quality Knowledge Base options for profiles and data explorations?

Configuration options for the QKB are set in the Quality Knowledge Base Engine section of the app.cfg file. For example, the QKB\PATH option enables you to specify the path to the QKB. The QKB/ON_DEMAND option determines whether the QKB is loaded on demand or all at once. By default, the option is set to YES. The QKB/ALLOW_INCOMPAT specifies how newer QKB definitions are handled. By default, this option is set to NO. You might want to change this option to YES if a profile or data exploration fails due to an incompatible (newer) QKB definition. The QKB\COMPATVER option enables you to specify the QKB version. Finally, the QKB\SURFACEALL determines whether all parse definitions are surfaced.

You can use Data Management Studio to change the QKB/ALLOW_INCOMPAT option. Click **Tools** in the main menu and select **Options** to display the Data Management Studio Options dialog. Click the **General** section of the dialog and update the checkbox for **Allow use of incompatible Quality Knowledge Base definitions**.

To change other QKB options, you must edit the app.cfg file. See the "Configuration" section of the *Data Management Studio Installation and Configuration Guide*.

How are SAS Data Types Converted When DataFlux Software Reads or Writes SAS Data?

DataFlux software and SAS data sets support different data types. Accordingly, automatic data-type conversions will take place when Data Management Studio software reads or writes SAS data sets. Also, nulls and missing values will be converted to other values. These changes can impact features that depend on particular data types. For example, when a profile reads a SAS data set, SAS fields with a format that applies to **datetime** values will be reported as **datetime**. SAS fields with a format that applies to time values will be reported as a time and SAS fields with a format that applies to date values will be reported as a date. As a result, the profile will not calculate some metrics such as Blank Count or Maximum Length for those fields.

The following data-type conversions are made automatically when DataFlux software, such as a data job or a profile, reads SAS data.

- For jobs: SAS numeric columns with a format that applies to date, time or datetime values will be converted to a DataFlux field of type date.
- For profiles: SAS fields with a format that applies to datetime values will be reported as datetime. SAS fields with a format that applies to time values will be reported as a time and SAS fields with a format that applies to date values will be reported as a date. Other SAS numeric columns will be converted to a DataFlux field of type real.
- SAS character columns will be converted to a DataFlux field of type string with the same length as the SAS character column.

Nulls and missing values will be converted to other values, as follows.

- SAS missing values will be converted to DataFlux null values. SAS special numeric missing values, either specified by using the MISSING statement in a SAS DATA step or by using representing the value as a dot followed by a letter or underscore, are also converted to null values.

- DataFlux null values will be converted to SAS missing values.
- A DataFlux field of type string that contains a blank will be converted to a SAS character field containing a blank. This blank will be interpreted by SAS as a missing value.

The following data-type conversions are made automatically when a Data Management Studio data job writes SAS data.

DataFlux Input Data Type	SAS Output Data Type		
	Type	Length	Format
boolean	num	8	
date	num	8	datetime19.2
integer	num	8	
real	num	8	
string	char	255	

How Can I Read an XML File in a Data Job?

Due to the limitations of the ODBC 32-bit XML driver, we recommend that you use the XML Input node to read an XML file in a data job. If an XML file contains multiple tables, you will need one XML Input node per table. You can use a SAS XMLMap or you can write custom XQuery to convert the source XML into compatible table format.

How Can I Read an XML File In a Profile?

We recommend that you extract the data from the XML file to a text file or to a database table, then profile the text file or table. To extract the data, create a data job in which the XML Input node is used to read the XML file, then use other nodes to output a text file or a database table. See also the general recommendations for data jobs with XML file inputs in "How Can I Read an XML File in a Data Job? "

Glossary

A

Access Control Entry

An Access Control Entry (ACE) is an entry of user information made to the Access Control Lists (ACLs) which is used to secure access to individual DataFlux Integration Server (DIS) objects.

Access Control Lists

Access Control Lists (ACLs) are used to secure access to individual DataFlux Integration Server (DIS) objects.

address verification

Address verification (validation) is the process of comparing a physical address to a reference database of known physical addresses so the original address can be standardized and corrected according to postal authority standards.

AIC

Analyze, Improve, Control (AIC) - DataFlux enables organizations to analyze, improve, and control their data from a single data quality integration platform. DataFlux tools and approaches can help you build a comprehensive set of business rules that can create a unified view of your enterprise data and enhance the effectiveness of CDI, CRM, ERP, legacy data migration, or compliance initiatives.

AMAS

Address Matching Approval System (AMAS) is the program the Australia Post administers to certify address verification software.

API

Application Programming Interface (API) is a set of software protocols, routines, and/or tools used when building software applications.

APO

Army/Air Force post office (APO) is an indication for the USPS.

Architect Job Templates

dfPower Studio can be used to modify and build work flows called jobs. These jobs can be delivered as templates that can be fleshed out by consultants or other IT professionals. Many job templates will be designed and delivered with the solution to accommodate such things as address verification, merging, assigning IDs, standardizing data, and so on.

ASCII

ASCII (American Standard Code for Information Interchange) is a character set based on the English alphabet

B

basic category

A basic category is a category that represents a single word. Basic categories are the basic building blocks of Grammar rules. Every basic category in a Grammar corresponds to a category in an ordered word list. For this reason, you should design Grammar rules in parallel with word-analysis logic.

batch processing

The application of data management routines to data source records in what are often very large groups, usually in processes that require no manual user intervention. Contrast with real-time processing.

business functions

These are expressions which are written in a generic manner so they can be reused from multiple rules or applications.

business rule

A conditional statement that tells a system running a business process how to react to a particular situation.

C

case definition

A set of logic used to accurately change the case of an input value, accounting for unique values that need to be case sensitive, such as abbreviations and business names.

CASS

Coding Accuracy Support System (CASS) is the program the United States Postal Service (USPS) administers to certify address verification software.

CBSA

Census Bureau Statistical Areas (CBSA)

CEDA

Cross-Environment Data Access (CEDA)

census string

The census string is a US Census Bureau designation for the boundary area in which the centroid exists. The census string contains state, county, and other census-type information.

centroid

A centroid is the approximate mathematical center of the ZIP or ZIP+4 boundary.

checks

These are built-in checks (expressions) that provide a template to the user to build common standard expressions.

chop table

A proprietary file type used by DataFlux as a lex table to separate characters in a subject value into more usable segments.

CMRA

US Commercial Mail Receiving Agency (CMRA)

CMSA

Consolidated Metropolitan Statistical Areas (CMSA)

Comments

Comments are text within a code segment that are not executed. Comments can be either C-style (starts with /* and ends with */) or C++ style (starts with // and continues to the end of a line).

Core Fields

Default logic to handle data such as name and address, which inform the identity management process.

CPC

Canadian Post Certification (CPC) is the SERP program administered by the Canadian Post. This is similar to the CASS certification administered by the USPS.

CRM

Customer Relationship Management (CRM)

custom metrics

Custom metrics may be used when the standard metrics do not contain the rules you need to accomplish the desired results.

D

dashboard

The dashboard is a Web-based view of the task grid and graphs in the Monitor Viewer.

data profiling

A discovery process that uncovers potential problem areas in large amounts of structured data.

data type

Not used in the sense of a database data type ("varchar" for instance) but used to describe sets of data values that follow certain rules and conventions. "Name" and "Address" are two examples of data types.

database

A collection of tables containing data that can be accessed easily by a computer system.

definition

An algorithm available to a DataFlux application.

derived category

A derived category is a category composed of one or more other categories. The makeup of a derived category is described using rules.

dfIntelliServer

dfIntelliServer provides a real-time or transactional mechanism for communicating with the MCRD through the Architect API. dfIntelliServer has several client libraries (including a Web services client) that can be called from a number of different applications in many different computing environments. dfIntelliServer allows one at a time queries and modifications to the MCRD. dfIntelliServer allows organizations to access Architect jobs through an API that can accept one group of data elements at a time rather than a complete table. This functionality takes advantage of the power of encapsulation of discreet chunks of work in Architect, so a programmer need only make one call to the client API to perform a related set of activities.

DPV

Delivery Point Validation (DPV) specifies if the given address is a confirmed delivery point as opposed to being within a valid range of house numbers on the street.

DSN

Data Source Name (DSN)

E

EEL

Expression Engine Language (EEL)

ERP

Enterprise Resource Planning (ERP)

ETL

Extraction, Transformation, and Loading

event

An event represents an action which should be taken when a rule fails. Actions can include sending email messages, storing the offending row in the repository, or executing an external process.

Expression

This is the DataFlux syntax used in the Business Rule Manager to build business rules.

F

field

Also known as a "variable" or a "column," a single piece of data in a database table. Database tables can have many fields. The user defines the fields. Each field has a unique identifier in the repository. From a data monitoring standpoint, the fields are not tied to any specific database or table but are bound at the time of execution to the current data set or row.

field set

A field set is a collection of fields that belong together. These usually represent a table of data and are used to aid in building rules and viewing results.

FIPS

Federal Information Processing Standards (FIPS) - A 5-digit number assigned to each county in the U.S. by the Census Bureau. The first 2 digits are the state code, and the last 3 digits are the county number.

FPO

Fleet post office (FPO) indication for USPS used for military personnel.

G

gender analysis

An algorithm that can determine the gender of persons by their names.

gender definition

A set of logic used to determine the probable gender of a name or identity-type input string.

grammar

A proprietary file type used to store hierarchical patterns pertinent to a specific subject area.

group rule

A group rule evaluates and applies all rules to groups of data (for example, data grouped by state and the rules evaluated for each state).

H

historical metrics

A historical metric is available when a business rule is run a second time under the same report name. You can view and compare the last two reports.

I

identification analysis

An algorithm that can determine from a known set of options what type of data is represented by a particular subject value.

identification definition

A set of logic used to identify an input string as a member of a redefined or user-defined value group or category.

inputs

Input fields are the fields where you apply the checks specified in the Rule Manager. This list includes all the fields you have defined in the Business Rule Manager, including the Output fields from custom metrics and any grouped by field.

J

job

The saved configuration settings for a particular task in a dfPower Studio application. You can run jobs interactively or combine them with other jobs and schedule the set of jobs to run on a particular date or time.

L

LACS

US Locatable Address Conversion Service (LACS) is a product/system in a different USPS product line that allows mailers to identify and convert a rural route address to a "city-style" address.

locale

The country of origin based on an address or country code.

locale guessing

A process that attempts to identify the country of origin of a particular piece of data based on an address, country code, or other field.

M

match

The process of identifying data strings that can be different representations of the same semantic information. For example, the strings Mr. Bob Brauer, Robert J., and Brauer can be considered to match each other.

match cluster

A set of records grouped together based on some commonality. Cluster IDs are numeric values used to refer to these clusters. You can append cluster IDs to records in a database to document matches.

match codes

The end result of passing data through a match definition. A normalized, encrypted string that represents portions of a data string that are considered to be significant with regard to the semantic identity of the data. Two data strings are said to "match" if the same match code is generated for each.

match definition

A set of logic used to generate a match code for a data string of a specific data type.

match value

A string representing the value of a single token after match processing.

MCD

Minor Civil Division (MCD)

MDM

Master Data Management (MDM) focuses on master data shared by several different systems and groups.

merge

The process of joining records and eliminating duplicate records from a table based on user-specified conditions and rules.

metadata

Information that describes the properties of data , for example when was last accessed or the size of the data value.

micropolitan

This term is used in US Census data and refers to a population area including a city with 10,000 to 50,000 residents and surrounding areas.

MSA

Metropolitan Statistical Areas (MSA) - The MSA code assigned by the Office of Management and Budget. Use this code as an index key in the MSA file.

N

namespace

A namespace is a unique container created to hold a logical grouping of identifiers.

O

Object

An object is anything that can be stored in the dfPower Studio Navigator and accessed by the dfPower Studio applications.

objects

Objects are individual jobs and services.

ODBC

Open Database Connectivity (ODBC) - an open standard application programming interface (API) for accessing databases.

OFAC

Office of Foreign Assets Control (OFAC) - Federal regulations related to the Patriot Act.

OLAP

Online Analytical Processing (OLAP)

organization

A company, university, or other type of institution. For example: IBM Corporation, University of Connecticut, or St. Joseph's Hospital

outputs

The output field is the field(s) used to apply the rule in the custom metric. Set your output field to serve as the field where the results from your custom metric are collected.

P

parse

The process of dividing a data string into a set of token values. For example: Mr. Bob Brauer, Mr. = Prefix, Bob = Given, Brauer = Family

parse definition

A name for a context-specific parsing algorithm. A parse definition determines the names and contents of the sub-strings that will hold the results of a parse operation.

pattern analysis definition

A regular expression library that forms the basis of a pattern recognition algorithm.

phonetics

An algorithm applied to a data string to reduce it to a value that will match other data strings with similar pronunciations.

PMB

A private mailbox (PMB) is categorized as a mailbox located at a mail center other than the post office or home.

PMSA

Principal Metropolitan Statistical Areas (PMSA)

Primary Key

Primary key is a unique identifier assigned to a database field. Social Security Numbers or a ISBNs are examples of possible primary keys.

Q

QAS

QuickAddress Software (QAS)

QKB

The Quality Knowledge Base (QKB) is a collection of files and configuration settings that contain all DataFlux data management algorithms. The QKB is directly editable using dfPower Studio.

Quality Knowledge Base Locales

The Quality Knowledge Base (QKB) locales contain the files, file relationships, and metadata needed to correctly parse, match, standardize, and otherwise process data.

R

RDBMS

Relational Database Management System (RDBMS) allows you to access data in a database in unique ways, such as adding tables and records, and joining tables.

RDI

Residential Delivery Indicator (RDI)

real-time processing

Processing a record or data one piece at a time as it enters a computer system, for financial transactions, for example. Contrast with batch processing.

record

Also called a "row" or "observation," one complete set of fields in a database table.

regular expression

A mini-language composed of symbols and operators that enables you to express how a computer application should search for a specified pattern in text. A pattern may then be replaced with another pattern, also described using the regular expression language.

repository

A dfPower repository is a hierarchical data storage mechanism.

row rule

A row rule evaluates every row of data passed into the Monitoring node.

RP

Software Evaluation and Recognition Program is a program the Canada Post administers to certify address verification software.

rule

A single rule can be either a row level rule or a data set level rule. A row level rule is applied to each row which enters the system while a data set level rule is applied to an entire data set or a portion of a data set.

rule set

A rule set is a set of one or more rules which are applied together as a group. Use a rule set when you find you are using a few rules together frequently.

S

SDK

Software Development Kit (SDK)

sensitivity

Regarding matching procedures, sensitivity refers to the relative tightness or looseness of the expected match results. A higher sensitivity indicates you want the values in your match results to be very similar to each other. A lower sensitivity setting indicates that you would like the match results to be "fuzzier" in nature.

SERP

The Software Evaluation and Recognition Program (SERP) is a program the Canadian Post administers to certify address verification software.

Service Oriented Architecture

Service Oriented Architecture (SOA) - All of the interaction with the master customer reference database is through a service-oriented architecture that enables any system to talk to the customer database and request or update information.

set rule

A set rule evaluates and applies rules to all of the input data completely (for example, it will evaluate all 1000 rows of data as a set).

SQL

Structured Query Language (SQL) is a language used to request information from database systems.

standard metrics

Standard metrics are pre-defined rules (expressions) set in dfPower. Most of the time, this is enough to achieve the results for your job.

standardization definition

A set of logic used to standardize a string.

standardization scheme

A collection of transformation rules that typically apply to one subject area, like company name standardization or province code standardization.

standardize

The process of transforming a data string so each of the string's token values conforms to a preferred standard representation: IBM Corporation = IBM CORP; Mister Bob Brauer, Junior = MR BOB BRAUER JR.

Statement of Accuracy

Statement of Accuracy (SoA) is the form used for Canadian Post Certification (CPC) standards.

T

table

A table is a collection of records in a database.

tasks

Tasks contain the rules and the events that go with your individual rule. Tasks associate alert events with a rule that are triggered after a rule fails.

token

Used by DataFlux to designate the output strings of a parse process. The output string of a parse process. A word or atomic group of words with semantic meaning in a data string. A set of expected tokens is defined for each data type.

U

Unicode

An industry standard used to allow text and symbols from languages around the world.

unified

This is the version of the repository you are using. The term "unified" means the repository contains data for dfPower Profile reports, Business Rules, and Data Monitoring results.

URI

Uniform Resource Identifier (URI) is a string of characters identifying a resource or file path.

USPS

United States Postal Service (USPS) provides postal services in the United States. The USPS offers address verification and standardization tools.

V

vocabulary

A proprietary file type used for categorizing data look-ups pertinent to a specific subject area.